

# COMMONWEALTH UNIVERSITIES YEARBOOK



THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH  
36 GORDON'S SQUARE, LONDON, W.C.1, ENGLAND



**Editor : J. F. FOSTER, MA LLM *Melb.*, Hon. MA *Oxon.*, Hon. LLD *Laval***

**Assistant Editor : T. CRAIG, MA *Glas.***

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The Association of Universities of the British Commonwealth is a voluntary society whose members are institutions of university standing in the various countries of the Commonwealth. It was founded in 1912 as the Universities Bureau of the British Empire and changed to its present name in 1948; it is incorporated under the Companies Acts of the United Kingdom. The Association is governed by an executive council consisting of a chairman, vice-chairman, hon. treasurer and sixteen members elected annually at a general meeting at which each member university is entitled to be represented by its executive head or his personal deputy. There are at present 124 member institutions.

The headquarters of the Association are situated at No. 36 Gordon Square, London, W.C.1 (tel.: Euston 8572), close to the University of London Senate House and University College. Members of the teaching staff or other officers of any member university are invited, when visiting London, to call at these premises, where there is a common room and facilities for interviews. Overseas visitors are especially requested to register, on or before arrival in the United Kingdom, their names and addresses with the secretary, to enable enquiries and communications for them to be dealt with. A full description of the functions of the Association, with its legal constitution and a list of its members and their representatives, will be found in Appendix VII at page 1413.



# PREFACE

THIS is the thirty-eighth edition of the *Commonwealth Universities Yearbook*, which was first published in 1914, and the fourth to appear in the enlarged format adopted in 1958. The *Yearbook* is published by the Association of Universities of the British Commonwealth as a directory to university institutions of good standing in all Commonwealth countries and is not restricted to the 124 universities and colleges which comprise the membership of the Association. This directory is produced annually because it is believed by the Association that a great value of such a work of reference is that it should not only cover the principal features of each university but should also give accurate and up-to-date lists of members of the university teaching profession in each country of the Commonwealth. Although most of their appointments are made on relatively long, if not indefinite, tenures, there is a great deal of voluntary staff movement among local universities and from one country of the Commonwealth to another, and only by constant and complete revision can these lists be made to serve the purpose of identifying particular teachers and research workers. The index of more than 40,000 names will, it is hoped, be found useful in that connection.

The publication of this edition follows a year of further expansion in the facilities for higher education, in which new universities were established or planned in practically every country of the Commonwealth. Entries appear herein for the first time for Fourah Bay College, the University College of Sierra Leone; for the University of Nigeria at Nsukka; and for the University College of Sussex in England. The main reason for the 80-page increase in the length of this book as compared with its predecessor is, however, the steady growth of the teaching staffs and academic activities of existing universities.

Among the most important features of the *Yearbook* are the 'national introductions' which precede the pages for Commonwealth countries with more than one or two universities. Each introduction (written by a leading university figure) is primarily intended as a factual guide for people abroad who want to get a general outline of university education in that particular country before turning to the separate university entries but who will not necessarily be familiar with the basic assumptions of its citizens about that country's educational system. These authoritative essays range over the entire university scene in the country concerned and are set out under carefully selected headings. Under one of these headings

in each introduction information of general interest is given about the teaching staff of universities and in this section there has been included this year for the first time a brief factual note on academic salaries which sets out, where possible, the current ranges or scales for different grades of staff prevalent in the universities of that country.

One of the functions of the *Yearbook* is to provide basic data to assist a student, who proposes to go to a Commonwealth country for study, in his choice of a particular university there, to the registrar of which he will, of course, subsequently write for complete and official information. As well as the particulars of, for example, 'First Degrees' and 'Higher Degrees', which are given in the separate chapter for each university, a detailed 'Directory to Subjects of Study' appears as part of each national introduction; there, in many cases in tabular form, is given a summarized statement on 'where to study what' in that country's universities.

The appendices contain, *inter alia*, full entries for the universities in the Republic of Ireland (which, though not in legal membership of the Association, remain closely associated with the universities of the Commonwealth), extended summaries of the admission requirements of universities in Australia, Canada, South Africa and the United Kingdom, a description of the Commonwealth Scholarship and Fellowship Plan and a 7-page bibliography.

The editors want to make the *Yearbook* as effective a work of reference as possible and will give careful consideration to any constructive suggestions for its improvement which readers may wish to offer. Copies of the book are understood to be available for reference in the library or registrar's office of Commonwealth universities and in many other libraries throughout the world.

The *Yearbook* is a co-operatively compiled work, the raw material for which is supplied from some 200 university or college offices in 18 countries to the office of the A.U.B.C. in London where it is edited before being sent to press. The Executive Council of the Association again wishes to express its thanks to the registrars, and to the authors of the national introductions, without whose sympathetic help this volume would not have been produced. It must be understood, however, that neither the Association nor the universities, while taking every care to ensure reliability, can accept responsibility for the accuracy of all the very many statements of fact which the book contains.



# GUIDE TO THE UNIVERSITY ENTRIES

The date at the beginning of each *Yearbook* university entry is the date at which the material was completely revised and brought up to date by the university for this Edition. Resignations, retirements and new appointments which it was known then would take effect before March 1961 were taken account of in the compilation of the staff lists; and, where universities supplied the necessary information, subsequent senior staff changes

were also incorporated up to the time of going to press.

The principal divisions of each *Yearbook* university entry are: (1) Principal Officers; (2) Teaching Staff; (3) Administrative and Other Staff; (4) Constituent, Affiliated or Associated Institutions; (5) General Information; (6) " 9'.

## PRINCIPAL OFFICERS AND TEACHING STAFF

**DEPARTMENTS.** The directory of teaching staff is subdivided into departments (indicated by bold headings) normally arranged in alphabetical order for ease of reference. Because of the divergent practices of different universities about the organization of subjects, it has not been considered advantageous to group these departments under faculty headings, but in special cases where there is a group of departments constituting a more or less distinct entity to which it is obviously helpful to be able to refer in a consecutive and separate entry (e.g. a *multi-departmental* school of engineering, of medicine, or of dentistry), they are set out together at the end of the main list, each group under a separate bold-type heading in capital letters, and cross-references to the subject headings in this grouping have been inserted at appropriate places in the main list.

Where the department of physical education is a teaching department, it is placed in the general subject list in alphabetical order, but where its main function is that of promoting the physical welfare of students of the whole university the names of its staff appear under the 'Administrative and Other Staff' heading.

**SPECIAL LECTURESHIPS** (and the names of the current holders thereof) which carry for the holder the status of a temporary member of the staff of the university or college and which involve an extended course of lectures (rather than merely one or two single lectures) are inserted before the list of 'Administrative and Other Staff', as are also entries for the *teaching* officers of such special institutes and departments, etc., as institutes of education, research institutes and extramural departments.

**ORDER AND STATUS.** The names of members of staff are arranged under each subject heading in order of seniority, wherever possible, and not in alphabetical order. Each individual's status, e.g. professor, reader, senior lecturer, lecturer, etc., is indicated opposite his name. Where a Chair or

other post has a distinctive title, that title is incorporated in the staff list opposite the holder's name (e.g. Slade Prof., Laurence Reader, Sidgwick Lectr.).

PART-TIME members of staff are indicated by the symbol †.

EMERITUS PROFESSORS are not included unless they are still active members of the teaching staff.

RESEARCH OFFICERS (including research fellows) are not listed by name unless they are regarded as regular members of staff.

**JUNIOR STAFF.** The most junior staff (such as temporary assistants and junior demonstrators) are not listed by name; such staff are normally covered only by a composite reference, e.g. 3 Jr. Demrs.

MEN'S FIRST NAMES are designated only by initials (e.g. Smith, J. D.) except in the case of knights and baronets or where it is necessary to distinguish between two men with the same initials and surname, at the same university or college. One first name of a knight or baronet is given in full.

WOMEN'S NAMES are indicated by the writing in full of one first name, any other first names being represented by initials only (e.g. Smith, Mary J.). The word 'Mrs.' is inserted before the names of married women, but the word 'Miss' is omitted except where the woman's first name is likely to be unfamiliar as such to English-speaking readers (as in the case of certain Eastern and African names).

ON LEAVE. Absence from the university on study leave, on secondment, on government duty, etc., is indicated by '(on leave)'. It is inserted only where the teacher will be on leave during the greater part of the 12 months following the publication of the *Yearbook* in April 1961.

ABBREVIATIONS. Lists of abbreviations (and relevant expansions) used for names of universities, for degrees, for university diplomas and



certificates, and for certain non-university qualifications appear on pages xiii-xxxi.

Each individual's university DEGREES, DIPLOMAS AND CERTIFICATES and any of his non-university qualifications which are mentioned in the next paragraph are noted in abbreviated form after his name. The university of origin of degrees, diplomas and certificates is also given but it should be noted that degrees, diplomas and certificates awarded by the university in whose entry the name of the staff member appears are indicated by being placed, *without* the name of the university,\* after any other degrees, diplomas or certificates. For example, the qualifications of a teacher possessing an MA of Sydney, a PhD of Adelaide and a diploma in education of Adelaide would be set out as follows if his name appeared in the Adelaide entry: MA *Syd.*, PhD DipEd. If his name appeared in the Sydney entry his qualifications would be set out thus: PhD DipEd *Adel.*, MA. The abbreviations for the names of universities are set in italic type; it should be noted that these abbreviations are not necessarily identical with those usually employed by the awarding universities. To save space, the word 'Hons.' (= Honours) is not placed after degrees in the staff lists, but Hon. (= Honorary) is inserted before honorary degrees.

NON-UNIVERSITY QUALIFICATIONS. The *Yearbook* aims at providing in the staff directories an accurate and comprehensive list of each teacher's university qualifications. Because of the need to save space, however, the number of titles not of university origin has had to be kept to a minimum and, to ensure consistency, it has been decided to list only the following such qualifications:

- (1) *Honours* conferred by the Crown (listed on pages xxix-xxxi).
- (2) *Fellowships* of learned bodies of high standing. Only those listed on pages xxix-xxxi are included in this edition of the *Yearbook*.
- (3) *Memberships* of the senior professional bodies in each country for physicians and for civil, electrical and mechanical engineers (listed on p. xxxi). Only one such membership is allowed after any one person's name. Associate memberships are not mentioned.

In setting out titles and qualifications after names the following order is observed:

- (1) Honours conferred by the Crown.
- (2) University degrees, diplomas and certificates.
- (3) Fellowships and memberships of certain institutions (*see above*).

## ADMINISTRATIVE AND OTHER STAFF

This section includes administrative staff who do not appear in the list of 'Principal Officers'.

The purpose of this section is to provide a detailed record of events in the university during the calendar year ending December 31, 1959 (the period covered by the sections relating to Degrees, Diplomas and Certificates Awarded is, however, the academic year 1958-59 (southern hemisphere, 1959) plus the long vacation following, and the information about student numbers relates to the beginning of the academic year 1959-60 (southern hemisphere, 1960)).

PRINCIPAL BENEFACTIONS. Only gifts of more than £10,000 or equivalent are listed. Government grants are not included. The *total* monetary value of all benefactions received is frequently given.

MAJOR BUILDING DEVELOPMENTS. This entry records information about buildings completed or approaching completion during the period under review.

RESIGNATIONS of staff members of the rank of lecturer (or equivalent) and above are recorded.

DEATHS of staff members, or of distinguished staff members who had retired, are recorded.

STUDENT NUMBERS. Students are classified as *part-time* if they are engaged in regular employment during the academic year and therefore

cannot devote their full time to their studies. If a university has indicated that it has used a different definition a note has been added to the text. By *new admissions* is meant the number of students entering the university or college for the first time. For *Yearbook* purposes a student 'from another country' is one whose permanent home residence is in that other country, *i.e.* one whose parents are only temporarily resident or employed abroad is not included, nor is one who was born in another country and may therefore have a foreign nationality but is now living permanently in the country in which the university or college is situated.

It should be noted that, although every effort has been made by the editors to secure uniformity, the figures of student numbers given in the individual university entries may possibly be compiled on slightly different statistical bases even in the one country.

\* The lists of DEGREES, DIPLOMAS AND CERTIFICATES AWARDED give the numbers of students who have the right, under the regulations of the university, to use the title of the degree, diploma or certificate regardless of whether or not it has been ceremonially conferred.

\* But where a teacher has a degree with the same abbreviation from two universities, both are named, even though it is in the entry for one of them that his name appears, *e.g.* the holder of an MA of Cambridge and an MA of Adelaide would be listed in the Adelaide entry as MA *Cambr. & Adel.*

# ABBREVIATIONS

- A, for names of universities (p. xiii)  
 B, for Commonwealth university degrees (p. xiv)  
 C, for Commonwealth university diplomas (p. xxvi)  
 D, for non-university qualifications (p. xxix)

## A. ABBREVIATIONS FOR NAMES OF UNIVERSITIES

Listed below are the expanded forms of the abbreviations used in the *Yearbook* for names of universities placed after degrees, diplomas, certificates, etc. It should be noted that only the universities most frequently mentioned in the staff lists in the *Yearbook* are included and that these abbreviations are not necessarily identical with those employed by the individual universities themselves.

<i>Abbreviation</i>	<i>University</i>	<i>Abbreviation</i>	<i>University</i>
Aberd.	Aberdeen	Dub.	Dublin, Trinity College
Acad.	Acadia	Durh.	Durham
Adel.	Adelaide		
Alig.	Aligarh Muslim	Edin.	Edinburgh
Alld.	Allahabad	E.T.H. Zürich	Eidgenössische Technische Hochschule, Zürich
Alta.	Alberta	Exe.	Exeter
Amst.	Municipal University of Amsterdam		
And.	Andhra	Flor.	Florida
Annam.	Annamalai	Fran.	Frankfurt
A.N.U.	Australian National	Freib.	Freiburg (Germany)
Assum.	Assumption	Frib.	Fribourg (Switzerland)
Ban.	Banaras Hindu	Gauh.	Gauhati
Bda.	Baroda (Maharaja Sayajirao University of)	Glas.	Glasgow
Belf.	Belfast (Queen's University of)	Gött.	Göttingen
Berl.	Berlin	Greg.	Pontifical Gregorian University, Vatican
Birm.	Birmingham	Gron.	Groningen
Bom.	Bombay	Gujar.	Gujarat
Bres.	Breslau		
Brist.	Bristol	Harv.	Harvard
Br. Col.	British Columbia	Heidel.	Heidelberg
Bud.	Budapest	H.K.	Hong Kong
Calc.	Calcutta	Ill.	Illinois
Calif.	California	Iowa	State University of Iowa
Cal. Tech.	California Institute of Technology		
Camb.	Cambridge	Jad.	Jadavpur
Cape	Cape of Good Hope (now incorporated in the University of South Africa)	J. & K.	Jammu and Kashmir
		Johns H.	Johns Hopkins
Cape T.	Cape Town		
Car.	Carleton	Karn.	Karnatak
Ceyl.	Ceylon	K.C.N.S.	King's College (Nova Scotia)
Chic.	Chicago		
Cinc.	Cincinnati	Leic.	Leicester
Col.	Columbia	Leip.	Leipzig
Conn.	Connecticut	Ley.	Leyden
Corn.	Cornell	Liv.	Liverpool
C.U.A.	Catholic University of America	Lond.	London
		Luck.	Lucknow
Dal.	Dalhousie	McG.	McGill
		McM.	McMaster

<i>Abbreviation</i>	<i>University</i>	<i>Abbreviation</i>	<i>University</i>
Madr.	Madras	Rand	Witwatersrand, Johannesburg
Manc.	Manchester (Victoria University of)	R'dg.	Reading
Manit.	Manitoba	R.M.C.	Royal Military College of Canada
Mass.	Massachusetts	Roch.	Rochester
Melb.	Melbourne	Roor.	Roorkee
Mick.	Michigan	S.A.	South Africa
Mich. State	Michigan State	St. And.	St. Andrews
Minn.	Minnesota	St. Dun.	St. Dunstan's
M.I.T.	Massachusetts Institute of Technology	St. F.X.	St. Francis Xavier
Montr.	Montreal	St. Jos.	St. Joseph's
Mt. All.	Mount Allison	St. M.	St. Mary's
Mt. St. Vin.	Mount St. Vincent (College)	Sask.	Saskatchewan
Mün.	Münster	Saug.	Saugar
Mys.	Mysore	S. Calif.	Southern California
		Sheff.	Sheffield
		Sher.	Sherbrooke
Nag.	Nagpur	Sir G. Wms.	Sir George Williams (College)
N.E.	New England	S.N.D.T.	S.N.D. Thackersey Women's University
New Br.	New Brunswick	S'ton.	Southampton
Nfld.	Memorial University of Newfoundland	Stan.	Stanford
Nott.	Nottingham	Stell.	Stellenbosch
N. Staffs.	North Staffordshire (University College of)	Stras.	Strasbourg
N.S.T.C.	Nova Scotia Technical College	S. Venkat.	Sri Venkateswara
N.S.W.	New South Wales (formerly N.S.W. Univ. of Technology)	S.V.V.	Sardar Vallabhbhai Vidyapeeth
N.S.W.U.T.	New South Wales University of Technology (now Univ. of N.S.W.)	Syd.	Sydney
N.U.I.	National University of Ireland	Syr.	Syracuse
N.Y.	New York		
N.Z.	New Zealand	Tas.	Tasmania
O.F.S.	Orange Free State	T.H. Aachen,	Technische Hochschule, Aachen, Stuttgart, etc.
Osm.	Osmania	T.H. Delft	Technische Hogeschool, Delft
Ott.	Ottawa	Tor.	Toronto
Oxon.	Oxford	Trav.	Travancore (now Kerala)
		Trin.	Imperial College of Tropical Agriculture
Panj.	Panjab (Lahore, Pakistan)	Trin. Coll.	Trinity College, University of Toronto
Panj. (I.)	Panjab (Chandigarh, India)		
Penn.	Pennsylvania	U.T.S. (N.Y.)	Union Theological Seminary, New York
Pesh.	Peshawar		
Pitt.	Pittsburgh	VB.	Visva-Bharati
Potchef.	Potchefstroom	Vic. Tor.	Victoria (Toronto)
Pret.	Pretoria	V.U. Amst.	Free University of Amsterdam
Prin.	Princeton		
		Wash.	Washington (Seattle)
Q'ld.	Queensland (Australia)	W. Aust.	Western Australia
Qu.	Queen's (Canada)	Wis.	Wisconsin
		W. Ont.	Western Ontario
Raj.	Rajasthan (formerly Rajputana)	Zür.	Zürich

## B. COMMONWEALTH DEGREE ABBREVIATIONS

In the following list the degree title opposite each abbreviation is the expanded form normally used by the university, or universities, in the Commonwealth which currently award that degree. Many of these degrees are awarded with honours (the courses for some honours degrees being quite distinct from the courses for the corresponding pass degrees), but, for reasons of space, the honours form of the abbreviation and title is not given below (*e.g.* BA *hons.* is excluded). For the purposes of this list, a 'conjoint' degree, such as MB ChB, is listed as two separate degrees.

It should be noted that many of the degrees listed below are awarded by only one university and that many others are awarded by only a relatively small number of universities.

ABMS	Ayurvedacharya, Bachelor of Medicine and Surgery
BA	Bachelor of Arts [Bachelier ès Arts : Laval, Montr., Ott., St. Jos. ; Baccalaureus in die Lettere en Wysbegeerte : O.F.S. ; Baccalaureus in Lettere en Wysbegeerte : Pret., Stell.]
	Bachelor in Arts : Acad.
BA(Admin)	Bachelor of Arts in Fine Arts : Cape T.
BA(Arch)	Bachelor of Arts in Administration
BA(Bantu Languages)	Bachelor of Arts (Architecture)
[BA(Bantoeckunde)]	Bachelor of Arts in Bantu Languages [Baccalaureus in Lettere en Wysbegeerte in Bantoeckunde] : Pret.
BAcc	Bachelor of Science in Accounting
BA(Com)	Bachelor of Arts in Commerce
BAdmin	Bachelor of Public Administration [Baccalaureus in Publieke Administrasie] : O.F.S., Pret.
	Bachelor of Administration : S.A.
BA(Econ)	Bachelor of Arts (Economics) : Brist.
	Bachelor of Arts in Economics and Politics : Manc.
	Bachelor of Arts in Economic Studies : Sheff.
BA(EdPhys) [BA(LO)]	Bachelor of Arts in Physical Education [Baccalaureus in Lettere en Wysbegeerte in Liggaamlike Opvoedkunde] : Pret.
BA(FA)	Bachelor of Arts (Fine Arts)
	Bachelor of Arts in Fine Arts : Rhodes, S.A.
BA(FA) [BA(BK)]	Bachelor of Arts in Fine Arts [Baccalaureus Beeldende Kunste] : Pret.
BA(FA) [BA(SK)]	Bachelor of Arts in Fine Arts [Baccalaureus Artium in die Skone Kunste] : S.A.
BA(Fine)	Bachelor of Arts (Fine)
BA Fine Arts	Bachelor of Arts in Fine Arts
BAG	Bachelor of Agriculture
BAGec	Bachelor of Agricultural Economics
BAGR	Bachelor of Agriculture
BAGrE	Bachelor of Agricultural Engineering
BAGrSc	Bachelor of Agricultural Science
BAGrSc(DairyTech)	Bachelor of Agricultural Science (Dairy Technology)
BAGrSc(Hort)	Bachelor of Agricultural Science (Horticulture)
BAGSc	Bachelor of Agricultural Science
BA(Home Arts)	Bachelor of Arts (Home Arts)
BA in Fine Arts	Bachelor of Arts in Fine Arts
BA in Logopedics	Bachelor of Arts in Logopedics
BA in Maatskaplike Werk	Bachelor of Arts in Social Work [Baccalaureus in die Lettere en Wysbegeerte in Maatskaplike Werk] : Stell.
BA in Public Administration	Bachelor of Arts in Public Administration
BA in SS	Bachelor of Arts in Social Studies
BA in SW	Bachelor of Arts in Social Work
BA(Law)	Bachelor of Arts in Law [Baccalaureus in Lettere en Wysbegeerte in die Regte : Pret.]
BA(Library Science) [BA (Biblioteekkunde)]	Bachelor of Library Science [Baccalaureus in Biblioteekkunde] : Pret.
BAM	Bachelor of Ayurvedic Medicine
BAM&S	Bachelor of Ayurvedic Medicine and Surgery
BA(MS)	Bachelor of Arts in Social Care [Baccalaureus in Maatskaplike Sorg] : Potchef.
BA(Mus)	Bachelor of Arts in Music
BA(Nursing) [BA (Verpleegkunde)]	Bachelor of Arts in Nursing Science [Baccalaureus in Lettere en Wysbegeerte in Verpleegkunde] : Pret.
BAO	Bachelor of Obstetrics
BA(PE)	Bachelor of Arts in Physical Education
BA(PolSc) [BA(Staatswetenskappe)]	Bachelor of Arts in Political Science [Baccalaureus in Lettere en Wysbegeerte in Staatswetenskappe] : Pret.
BArch	Bachelor of Architecture [Baccalaureus in die Argitektuur : O.F.S. ; Baccalaureus in Argitektuur : Pret.]

BArp	Bachelor of Surveying [Bachelier en Arpentage] : Laval
BASc	Bachelor of Applied Science
BA(SecCert)	Bachelor of Arts with Secretarial Certificate
BA(SS)	Bachelor of Arts in Social Science
BA(SS) [BA(SW)]	Bachelor of Arts in Social Sciences [Baccalaureus Artium in die Sociale Wetenskappe] : S.A.
	Bachelor of Arts in Social Sciences [Baccalaureus in Lettere en Wysbegeerte in Sosiale Wetenskappe] : Pret.
BA(Theol)	Bachelor of Arts in Theology
BA(Theology)	Bachelor of Arts (Theology)
BAV	Bachelor of Ayurveda
BBA	Bachelor of Business Administration
BBldSc	Bachelor of Building Science
BBibl	Bachelor in Library Science [Bachelier en Bibliothéconomie] : Montr.
BCE	Bachelor of Civil Engineering
BCh	Bachelor of Surgery
BChD	Bachelor of Dental Surgery [Baccalaureus in die Tandheelkunde : Pret.]
BChE	Bachelor of Chemical Engineering
BChemE	Bachelor of Chemical Engineering
BChemEng	Bachelor of Chemical Engineering
BChemEngg	Bachelor of Chemical Engineering
BChemTech	Bachelor of Chemical Technology
BChir	Bachelor of Surgery
BCL	Bachelor of Civil Law
	Bachelor of Civil Laws : Delhi
BCom	Bachelor of Commerce [Baccalaureus in die Handel : O.F.S. ; Baccalaureus in Handel : Pret.]
BCom(Accountancy) [BCom (Rekeningwetenskappe)]	Bachelor of Commerce in Accountancy [Baccalaureus in Handel in Rekeningwetenskappe] : Pret.
BCom(Econ, Pol and Sociol)	Bachelor of Commerce (Economics, Politics and Sociology)
BCom(Geog)	Bachelor of Commerce (Geography)
BComm	Bachelor of Commerce [Baccalaureus in die Handelwetenskappe : Stell.]
BComSc	Bachelor of Commercial Science
BCom(SocStudy)	Bachelor of Commerce (Social Study)
BCom with Russian Studies	Bachelor of Commerce with Russian Studies
BD	Bachelor of Divinity [Baccalaureus in die Godgeleerdheid : Stell.]
	Bachelor of Theology [Baccalaureus in Godgeleerdheid : Pret.]
	Bachelor of Theology : Malta
BDC	Bachelor of Canon Law [Bachelier en Droit canonique] : Ott.
BDS	Bachelor of Dental Surgery
BDSc	Bachelor of Dental Science
BE	Bachelor of Engineering
	Bachelor of Science in Engineering : Sask.
BEC	Bachelor of Economics
BEChem	Bachelor of Chemical Engineering
BE(Chem)	Bachelor of Chemical Engineering
BE(Civil)	Bachelor of Engineering (Civil)
BEcon	Bachelor of Economics
BEcon(IA)	Bachelor of Economics in Industrial Administration
BEcon(PA)	Bachelor of Economics in Public Administration
BEd	Bachelor of Education [Bachelier en Éducation : Ott., St. Jos. ; Baccalaureus in die Opvoedkunde : O.F.S., Stell. ; Baccalaureus in Opvoedkunde : Pret.]
	Bachelor in Education : Acad.
BEdN	Bachelor of Education in Nursing
BEd(PE)	Bachelor of Education (Physical Education)
BEdPh	Bachelor of Physical Education [Baccalaureus in Liggaamlike Opvoeding] : Stell.
BEdPR	Bachelor of Physical and Recreational Education [Bachelier en Éducation physique et récréative] : Montr.
BEdSc	Bachelor of Educational Science
BEE	Bachelor of Electrical Engineering
BE(Elect)	Bachelor of Engineering (Electrical)
BE(Mech)	Bachelor of Engineering (Mechanical)

BE(Metall)	Bachelor of Engineering (Metallurgy)
BE(Mining)	Bachelor of Engineering (Mining)
BEng	Bachelor of Engineering
BEngSc	Bachelor of Engineering Science
BE(Tele-Com)	Bachelor of Engineering (Tele-Communication)
BFA	Bachelor of Fine Arts
BFor	Bachelor of Forestry
BForSc	Bachelor of Forestry Science
BHE	Bachelor of Home Economics
BHEc	Bachelor of Household Economics
BHSc	Bachelor of Household Science
	Bachelor of Home Science : N.Z.
BIng	Bachelor of Engineering [Baccalaureus in Ingenieurswese] : Stell.
BID	Bachelor of Interior Design
BIM	Bachelor of Indian Medicine
BIur	Baccalaureus Iuris : Pret.
BJ	Bachelor of Journalism
BL	Bachelor of Law
	Bachelor of Laws : And., Kerala, Madr., Mys.
BLib	Bachelor of Library Science
BLitt	Bachelor of Letters
BLS	Bachelor of Library Science
BM	Bachelor of Medicine
BME	Bachelor of Mining Engineering
	Bachelor of Mechanical Engineering : Jadavpur
BMechE	Bachelor of Mechanical Engineering
BMedSc	Bachelor of Medical Science
BMet	Bachelor of Metallurgy
BMetE	Bachelor of Metallurgical Engineering
BMil	Bachelor of Military Science [Baccalaureus in die Krygskunde] : Stell.
BMus	Bachelor of Music [Bachelier en Musique : Laval, Montr. ; Baccalaureus in die Musick : O.F.S., Stell.]
BN	Bachelor of Nursing
BNSc	Bachelor of Nursing Science
BOL	Bachelor of Oriental Learning
BOr	Bachelor of Orientation [Bachelier en Orientation] : Laval
BPE	Bachelor of Physical Education
BPed	Bachelor of Pedagogy
BPéd	Bachelor of Education [Bachelier en Pédagogie] : Laval
	Bachelor of Pedagogy [Bachelier en Pédagogie] : Montr.
BPF	Bachelor of Family Pedagogy [Bachelière en Pédagogie familiale] : Montr.
BPh	Bachelor of Philosophy [Bachelier en Philosophie] : Laval, Montr., Ott.
BPharm	Bachelor of Pharmacy [Bachelier en Pharmacie : Laval, Montr.]
BPHE	Bachelor of Physical and Health Education
BPhil	Bachelor of Philosophy
BPh(Psychologie)	Bachelor of Philosophy (psychology) [Bachelier en Philosophie (psychologie)] : Montr.
BPh(ScMédiévales)	Bachelor of Philosophy (Mediaeval Studies) [Bachelier en Philosophie (sc. médiévales)] : Montr.
BRE	Bachelor of Religious Education
BRurSc	Bachelor of Rural Science
BS	Bachelor of Surgery
BSA	Bachelor of Science in Agriculture
	Bachelor of Agriculture [Bachelier en Sciences agricoles] : Laval
	Bachelor of Science in Agriculture [Bachelier ès Sciences agricoles] : Montr.
BSc	Bachelor of Science [Bachelier ès Sciences : Laval, Montr., Ott., St. Jos. ; Baccalaureus in Wis- en Natuurkunde : Pret. ; Baccalaureus in die Natuurwetenskappe : O.F.S., Stell., S.A.]
	Bachelor in Science : Acad.
	Bachelor of Science in Chemical Engineering : Cape T.
	Bachelor of Science in Engineering : Cape T.
	Bachelor of Science in Land Surveying : Cape T.
BScA	Bachelor of Applied Sciences [Bachelier ès Sciences appliquées] : Laval
	Bachelor of Applied Science [Bachelier ès Sciences appliquées] : Montr.

BScAg	Bachelor of Science in Agriculture
BSc(Ag)	Bachelor of Science (in Agriculture) : Raj.
BSc(AgE)	Bachelor of Science in Agriculture
BScAgr	Bachelor of Science (Agriculture) : Madr., Mys.
BSc(Agr)	Bachelor of Science in Agricultural Engineering
BSc(AgrEngineering)	Bachelor of Science in Agriculture
BSc(Agr)	Bachelor of Science in Agriculture
BScAgric	Bachelor of Science (Agriculture) : Nag.
BSc(Agric)	Bachelor of Science in Agricultural Engineering
	Bachelor of Science (Agriculture)
	Bachelor of Science in Agriculture
	Bachelor of the Science of Agriculture : Ceyl.
	Bachelor of Science in Agriculture
	Bachelor of Science (Agriculture) : Lond.
BSc(AgricEng) [BSc (AgricEng)]	Bachelor of Agriculture [Baccalaureus in Landbou]
BScAgriculture	: Pret.
BSc(Agriculture)	Bachelor of Agricultural Engineering [Baccalaureus in Landbou- Ingenieurswese] : Pret.
BSc(AH)	Bachelor of Science (Agriculture)
BScApp	Bachelor of Science (Agriculture)
BSc(Applied)	Bachelor of Science (Animal Husbandry)
BSc(Arch)	Bachelor of Applied Science
BSc(CE)	Bachelor of Applied Science
BScChemEngineering	Bachelor of Architecture [Baccalaureus in Argitektuur] : O.F.S.
BScChemTech	Bachelor of Science in Civil Engineering
BSc(ChemTech)	Bachelor of Science in Chemical Engineering
BSc(CivEng)	Bachelor of Science in Chemical Technology
	Bachelor of Science in Chemical Technology
	Bachelor of Science (Civil Engineering)
	Bachelor of Science in Civil Engineering : New Br.
BSc(Civil&Municipal Engg)	Bachelor of Science (Civil and Municipal Engineering)
BScCom	
	Bachelor of Commerce [Bachelier en Sciences commerciales] : Laval
	Bachelor of Commercial Science [Bachelier ès Sciences commerciales] : Montr.
BScComm	Bachelor of Commercial Science [Bachelier ès Sciences commerciales] : St. Jos.
BScD	Bachelor of Science in Dentistry
BSc(Dairying)	Bachelor of Science in Dairying
BSc(Dent)	Bachelor of Science in Dentistry
BSc(Dietetics) [BSc (Dieetkunde)]	Bachelor of Dietetics [Baccalaureus in Dieetkunde] : Pret.
BScDom	
	Bachelor of Household Sciences [Bachelier en Sciences domestiques] : Laval
BSc(Domesticae)	Bachelor of Science in Domestic Science : Syd.
BSc(DomSc)	Bachelor of Domestic Science
BSc(DomSc) [BSc (Huish)]	Bachelor of Science (Domestic Science)
BSc(DomSci)	Bachelor of Domestic Science [Baccalaureus in Huishoudkunde] : Pret.
BSc(DomSc)(TO)	Bachelor of Science (Domestic Science)
BSc(Econ)	Bachelor of Domestic Science (Teacher's Option) : Potchef.
	Bachelor of Science in Economics
	Bachelor of Economic Science : <sup>o</sup> Hull
	Bachelor of Science (Economics) : Lond.
BScEdInf	Bachelor of Science in Nursing Education [Bachelière en Sciences de l'Éducation des infirmières] : Montr.
BSc(EE)	Bachelor in Science in Electrical Engineering
BSc(ElectEngg)	Bachelor of Science in Electrical Engineering : Dacca
BScElEd	Bachelor of Science (Electrical Engineering)
BScEng	Bachelor of Science in Elementary Education
	Bachelor of Science in Engineering
	Bachelor of the Science of Engineering : Ceyl.
BSc(Eng)	Bachelor of Science in Engineering
	Bachelor of Science (Engineering) : Lond., Patna, Trav.
BSc(Eng) [BSc(Ing)]	Bachelor of Engineering [Baccalaureus in Ingenieurswese] : Pret.
BScEng(Agric)	Bachelor of Science in Agricultural Engineering

BSc(Eng) (Civil)	Bachelor of Science in Engineering (Civil)
BSc(Eng) (Elect)	Bachelor of Science in Engineering (Electrical)
BSc(Engg)	Bachelor of Science (Engineering)
BSc(Eng) (Geol)	Bachelor of Science in Engineering (Geological)
BSc(Eng) (Mech)	Bachelor of Science in Engineering (Mechanical)
BSc(EngPhys)	Bachelor of Science in Engineering Physics
BSc(EstMan)	Bachelor of Science (Estate Management)
BScF	Bachelor of the Science of Forestry
	Bachelor of Science in Forestry : Melb.
BScFor	Bachelor of Science in Forestry
BSc(For)	Bachelor of Science in Forestry
BSc(FuelTech)	Bachelor of Science in Fuel Technology
BSc(GenSc)	Bachelor of Science in General Science
BSc(H&SS)	Bachelor of Science (Household and Social Science)
BSc(HEC)	Bachelor of Science in Home Economics
	Bachelor in Science with Home Economics : Acad.
	Bachelor of Science in Household Economics : Alta.
BSc(Home)	Bachelor of Science (Home)
BSc(Home Economics)	Bachelor of Science (Home Economics)
BSc(Home Sciences)	Bachelor of Sciences (Home Sciences)
BSc(Hort)	Bachelor of Science in Horticulture
	Bachelor of Science (Horticulture) : Lond.
BSc(Hortic)	Bachelor of Science in Horticulture
BScHosp	Bachelor of Nursing [Bachelier en Sciences hospitalières] : Laval
BSc(Household Science)	Bachelor of Science (Household Science)
BSc(Hyg)	Bachelor of Science in Hygiene
BSc in Agriculture	Bachelor of Science in Agriculture
BSc in Arts	Bachelor of Science in Arts
BSc in Bosbou	Bachelor of Science in Forestry [Baccalaureus in die Natuurwetenskappe in Bosbou] : Stell.
BSc(IndChem)	Bachelor of Science (Industrial Chemistry)
BSc in Engineering	Bachelor of Science in Engineering
BSc in Home Economics	Bachelor of Science in Home Economics
BSc in Home Science	Bachelor of Science (Home Science)
BSc in Huishoudkunde	Bachelor of Science in Home Economics [Baccalaureus in die Natuurwetenskappe in Huishoudkunde] : Stell.
BSc in Landbou	Bachelor of Science in Agriculture [Baccalaureus in die Natuurwetenskappe in Landbou] : Stell.
BSc in Nursing	Bachelor of Science in Nursing
BSc in Voedseltegnologie	Bachelor of Science in Food Technology [Baccalaureus in die Natuurwetenskappe in Voedseltegnologie] : Stell.
BScLA	Bachelor of Science (Laboratory Assistant)
BSc(Land Surveying) [BSc (Landmeetkunde)]	Bachelor of Land Surveying [Baccalaureus in Landmeetkunde] : Pret.
BSc(ME)	Bachelor of Science in Mechanical Engineering
BSc(MechE)	Bachelor of Science in Mechanical Engineering
BSc(MechEng)	Bachelor of Science in Mechanical Engineering
BScMed	Bachelor of Science in Medicine
BSc(Med)	Bachelor of Science in Medicine
	Bachelor of Science (Medical) : Syd., Bom.
BScMet	Bachelor of Science in Metallurgy
BSc(Metallurgical Engineering)	Bachelor of Science in Metallurgy
BScMin	Bachelor of Science in Mining
BSc(Min)	Bachelor of Science in Mining
BSc Mining Engineering	Bachelor of Science in Mining
BScN	Bachelor of Science in Nursing
BSc(Nutr)	Bachelor of Science (nutrition) [Bachelier ès Sciences (nutrition)] : Montr. Ott.
BScNursing	Bachelor of Science in Nursing
	Bachelor of Science (Nursing) : Delhi
BSc(Nutrition)	Bachelor of Science (Nutrition)
BScP	Bachelor of Fisheries [Bachelier ès Sciences (pêcheries)] : Laval
BSc(PandOT)	Bachelor of Science in Physical and Occupational Therapy
BSc(PED)	Bachelor of Science in Physical Education



BSc(Pharm)	Bachelor of Science in Pharmacy
BSc(Pharmacy)	Bachelor of Science in Pharmaceutical Chemistry : Agra
BScPhm	Bachelor of Science in Pharmacy
BScPhysEd	Bachelor of Science in Physical Education
BSc(Physiotherapy)	Bachelor of Science in Physiotherapy
BScQS	Bachelor of Science in Quantity Surveying
BSc(QS)	Bachelor of Science in Quantity Surveying [Baccalaureus in Bourekenkunde : O.F.S.]
BScRel	Bachelor of Quantity Surveying [Baccalaureus in Bourekenkunde] : Pret.
BScRT	Bachelor of Religious Science [Bachelier en Sciences religieuses] : Montr.
BScSoc	Bachelor of Science in Radiologic Technology
BSc(Soc)	Bachelor of Social Sciences [Bachelier en Sciences sociales] : Montr.
BScSP	Bachelor of Science (Sociology) : Lond.
BScSS	Bachelor of Social Sciences [Bachelier en Sciences sociales] : Laval
BScSur	Bachelor of Social and Political Sciences [Bachelier ès Sciences sociales et politiques] : Ott.
BSc(Surv)	Bachelor of Science in Secretarial Studies
BSc(Survey)	Bachelor of Science in Land Surveying
BScT	Bachelor of Science in Surveying
BSc(TE)	Bachelor of Science (Survey)
BScTech	Bachelor of Science in Medical Technology [Bachelier ès Sciences en Technologie médicale] : Montr.
BSc(Tech)	Bachelor of Science in Textile Engineering
BScTech(Glass & Ceramics)	Bachelor of Technical Science
BSc(Text)	Bachelor of Technology
BSc(Vet)	Bachelor of Science (Technology) : Bom., Calc., Nag.
BSc(VetSci)	Bachelor of Science in Technology : Annam., Madr.
BSc(Vety)	Bachelor of Science (Technical) Glass & Ceramics
BServSoc	Bachelor of Science (Textiles)
BSF	Bachelor of Science in Textiles : Panj. (I.)
BSHEc	Bachelor of Science (Veterinary)
BSLitt	Bachelor of Science (Veterinary Science)
BSN	Bachelor of Veterinary Science
BSocSc	Bachelor of Social Service [Bachelier en Service social] : Laval
BSocSc(SW)	Bachelor of Science in Forestry
BSP	Bachelor of Science in Home Economics
BSSc	Bachelor of Sacred Letters
BSurv	Bachelor of Science in Nursing
BSW	Bachelor of Social Science [Baccalaureus in Sosiale Wetenskappe: O.F.S.]
BT	Bachelor of Social Science (Social Welfare)
BTech	Bachelor of Science in Pharmacy
BTele	Bachelor of Sanitary Science
BText	Bachelor of Surveying
BText(Eng)	Bachelor of Social Work
BText(Tech)	Bachelor of Teaching
BTh	Bachelor of Technology
BUMS	Bachelor of Textiles
BUTS	Bachelor of Telecommunication Engineering
BVetMed	Bachelor of Textiles
BVMS	Bachelor of Textile Engineering
BVSc	Bachelor of Textiles (Technology)
BVSc&AH	Bachelor in Theology
ChB	Bachelor of Theology : Alig. ; Laval, Montr., Ott. [Bachelier en Théologie]
ChemE	Bachelor of Unani Medicine and Surgery
ChM	Bachelor of Unani Tib and Surgery
	Bachelor of Veterinary Medicine
	Bachelor of Veterinary Medicine and Surgery
	Bachelor of Veterinary Science [Baccalaureus in Veeartsenykunde : Pret.]
	Bachelor of Veterinary Science and Animal Husbandry
	Bachelor of Surgery [Baccalaureus in Snykunde : Pret. ; Baccalaureus in die Snykunde : Stell.]
	Chemical Engineer
	Master of Surgery

CM	Master of Surgery
DAdmin	Doctor of Public Administration [Doktor in Publieke Administrasie] : O.F.S.
DAgrSc	Doctor of Agricultural Science
DArch	Doctor of Architecture [Doktor in Argitektuur : O.F.S.]
DBA	Doctor of Business Administration [Doktor in Besigheidsadministrasie] : Pret.
DCh	Doctor of Surgery
DCL	Doctor of Civil Law
DCnL	Doctor of Canon Law
DCom	Doctor of Commerce [Doktor in Handel] : O.F.S., Pret.
DComm	Doctor of Commerce [Doktor in die Handelwetenskappe : Stell.]
DD	Doctor of Divinity [Doktor in die Godgeleerdheid : Stell.]
	Doctor in Theology [Doktor in Godgeleerdheid] : Pret.
	Doctor of Theology : Malta
DDC	Doctor of Canon Law [Docteur en Droit canonique] : Laval, Ott.
DU	Doctor of University [Docteur de l'Université] : Laval
DDS	Doctor of Dental Surgery [Docteur en Chirurgie dentaire : Montr.]
DDSc	Doctor of Dental Science
DE	Doctor of Engineering
DEcon	Doctor of Economics
DEd	Doctor of Education [Doktor in die Opvoedkunde : Pret., Stell.]
DEdPh	Doctor of Physical Education [Doktor in Liggaamlike Opvoeding] : Stell.
DEdPhys	Doctor of Physical Education [Doktor in Liggaamlike Opvoedkunde] : Pret.
DEng	Doctor of Engineering
DèsL	Doctor of Letters [Docteur ès Lettres] : Laval, Ott.
DHy	Doctor of Hygiene
DIng	Doctor of Engineering [Doktor in Ingenieurswese] : Stell.
DJur	Doctor Juris
DL	Doctor of Laws
DLett	Doctor of Letters [Docteur en Lettres] : Montr.
DLit	Doctor of Literature
DLitt	Doctor of Letters
	Doctor of Literature : Wales, McG., Mt. All., N.E., Potchef., O.F.S., Pret. [Doktor in Lettere], Rhodes, Stell. [Doktor in die Lettere], Rand, Calc., Luck., Osm., Panj. (I.), Patna, Raj., Saug., Utkal, Ceyl., Dacca
DLitt&Phil	Doctor of Literature and Philosophy
DM	Doctor of Medicine
DMD	Doctor of Dental Medicine
DMet	Doctor of Metallurgy
DMiss	Doctor of Missiology [Docteur en Missiologie] : Ott.
DMus	Doctor of Music [Docteur en Musique : Laval, Montr. ; Doktor in Musiek : O.F.S. ; Doktor in die Musiek : Stell.]
DMV	Doctor of Veterinary Medicine [Docteur en Médecine vétérinaire] : Montr.
DOL	Doctor of Oriental Learning
DPéd	Doctor of Education [Docteur en Pédagogie] : Laval
	Doctor of Pedagogy [Docteur en Pédagogie] : Montr.
DPh	Doctor of Philosophy [Docteur en Philosophie] : Laval, Montr., Ott.
DPharm	Doctor of Pharmacy [Docteur en Pharmacie] : Laval, Montr.
DPhil	Doctor of Philosophy [Doktor in Wysbegeerte : Pret. ; Doktor in die Wysbegeerte : O.F.S., Stell.]
	Doctor of Public Administration [Doktor in Publieke Administrasie] : Pret.
DPh(Psychologie)	Doctor of Philosophy (psychology) [Docteur en Philosophie (psychologie)] : Montr.
DPh(ScMédiévales)	Doctor of Philosophy (Mediæval Studies) [Docteur en Philosophie (sc. médiévales)] : Montr.
DPSc	Doctor of Psychological Science
DSA	Doctor of Agriculture [Docteur en Sciences agricoles] : Laval
DSc	Doctor of Sciences [Docteur ès Sciences : Laval, Montr., Ott. ; Doktor in die Wis- en Natuurkunde : Pret. ; Doktor in die Natuurwetenskappe : O.F.S., Stell.]

DSc	Doctor of Science in Applied and Industrial Chemistry : Cape T. Doctor of Science in Engineering : Cape T. Doctor of Science in Land Surveying : Cape T.
DScA	Doctor of Sciences [Docteur en Sciences appliquées] : Laval Doctor of Applied Science [Docteur en Sciences appliquées] : Montr.
DScAgr	Doctor of Science in Agriculture
DScAgric	Doctor of Science in Agriculture
DSc(Agric)	Doctor of Science in Agriculture Doctor of Agriculture [Doktor in Landbou] : Pret.
DSc(AgricEng) [DSc (AgricIng)]	Doctor of Agricultural Engineering [Doktor in Landbou-Ingenieurswese] : Pret.
DScCom	Doctor of Commerce [Docteur en Sciences commerciales] : Laval Doctor of Commercial Science or Doctor of Commerce [Docteur en Sciences commerciales] : Montr.
DSc(Econ)	Doctor of Science (Economics) Doctor of Science in Economics : S'ton., Rand
DScEng	Doctor of Science (Engineering) Doctor of Science in Engineering : Syd., Rand
DSc(Eng)	Doctor of Science (Engineering)
DSc in Bosbou	Doctor of Science in Forestry [Doktor in die Natuurwetenskappe in Bosbou] : Stell.
DSc in Landbou	Doctor of Science in Agriculture [Doktor in die Natuurwetenskappe in Landbou] : Stell.
DSc in Voedseltegnologie	Doctor of Science in Food Technology [Doktor in die Natuurwetenskappe in Voedseltegnologie] : Stell.
DScPol	Doctor of Political Sciences [Docteur ès Sciences politiques] : Ott.
DSc(PubHealth)	Doctor of Science (Public Health)
DScSoc	Doctor of Social Sciences [Docteur en Sciences sociales] : Laval Doctor of Social Science [Docteur en Science sociale] : Montr.
DScTech	Doctor of Technical Science
DSocSc	Doctor of Social Science [Doktor in Sosiale Wetenskappe : O.F.S.]
DSW	Doctor of Social Work
DTech	Doctor in Technology
DTh	Doctor of Theology [Docteur en Théologie] : Laval, Montr., Ott.
DVM	Doctor of Veterinary Medicine
DVSc	Doctor of Veterinary Science [Doktor in die Veeartsenykunde : Pret.]
EdB	Bachelor of Education
EdD	Doctor of Education
EE	Electrical Engineer
IF	Forst Engineer [Ingénieur forestier] : Laval
LDC	Licentiate in Canon Law [Licencié en Droit canonique] : Ott.
LèsL	Licentiate of Letters [Licencié ès Lettres] : Laval
LH	Licentiate of Hygiene [Licencié en Hygiène] : Montr.
LicD	Licentiate in Theology
LittD	Doctor of Letters Doctor of Literature : N.Z.
LittD(Econ)	Doctor of Letters in Economic Studies
LLB	Bachelor of Laws [Baccalaureus in Regsgeleerdheid : O.F.S., Pret., S.A. ; Baccalaureus in die Regsgeleerdheid : Stell.] Bachelor of Law : Camb. ; Laval & Montr. [Bachelier en Droit], Potchef., Patna, Sind
LLD	Doctor of Laws [Doktor in die Regsgeleerdheid : O.F.S., Pret., Stell., S.A.] Doctor of Law : Camb. ; Laval & Montr. [Docteur en Droit]
LLett	Licentiate of Letters [Licencié ès Lettres] : Montr.
LLL	Licentiate of Law [Licencié en Droit] : Laval, Montr.
LLM	Master of Laws [Magister in Regsgeleerdheid : Pret.] Master of Law : Camb., Sind
LMus	Licentiate of Music [Licencié en Musique] : Laval, Montr.
LOr	Licentiate or Master of Orientation [Licencié en Orientation] : Laval
LPéd	Licentiate or Master of Education [Licencié en Pédagogie] : Laval Licentiate of Pedagogy [Licencié en Pédagogie] : Montr.
LPh	Licentiate of Philosophy [Licencié en Philosophie] : Laval, Montr., Ott.
LPh(Psychologie)	Licentiate of Philosophy (psychology) [Licencié en Philosophie (psychologie)] : Montr.

LPh(ScMédiévales)	Licentiate of Philosophy (Mediæval Studies) [Licencié en Philosophie (sc. médiévales)] : Montr.
LSA	Licentiate of Science in Agriculture [Licencié ès Sciences agricoles] : Montr.
LSc	Licentiate of Sciences [Licencié ès Sciences] : Laval
LScCom	Licentiate or Master of Commerce [Licencié en Sciences commerciales] : Laval
	Licentiate of Commercial Sciences or Master of Commerce [Licencié en Sciences commerciales] : Montr.
LScComptables	Licentiate of Accountancy [Licencié en Sciences comptables] : Montr.
LScO	Licentiate of Optometry [Licencié en Sciences—optométrie] : Montr.
LScPol	Licentiate in Political Sciences [Licencié ès Sciences politiques] : Ott.
LST	Licentiate in Sacred Theology
LTh	Licentiate or Master of Theology [Licencié en Théologie] : Laval, Montr., Ott.
MA	Master of Arts [Maître ès Arts : Laval, Montr., Ott., St. Jos. ; Magister in die Lettere en Wysbegeerte : O.F.S. ; Magister in Lettere en Wysbegeerte : Pret., Stell.]
	Master of Arts in Fine Art : Cape T.
MA(AdmHosp)	Master of Arts (Hospital Administration) [Maître ès Arts (administration hospitalière)] : Montr.
MA(Arch)	Master of Arts (Architecture)
MA(Bantu Languages)	Master of Arts in Bantu Languages [Magister in Lettere en Wysbegeerte in Bantoekunde] : Pret.
[MA (Bantoekunde)]	
MAdmin	Master of Public Administration [Magister in Publieke Administrasie] : O.F.S., Pret.
	Master of Administration : S.A.
MA(Droit)	Master of Arts (Law) [Maître ès Arts (droit)] : Montr.
MA(Econ)	Master of Arts in Economic Studies
MA(Ed)	Master of Arts in Education
MA(FA)	Master of Arts in Fine Arts
MA(FA) [MA(SK)]	Master of Arts in Fine Arts [Magister Artium in die Skone Kunste] : S.A.
MA(Fine)	Master of Arts (Fine)
MA Fine Arts	Master of Arts in Fine Arts
MAg	Master of Agriculture
MAGec	Master of Agricultural Economics
MAGr	Master of Agriculture
MAGrSc	Master of Agricultural Science
MAGrSc(DairyTech)	Master of Agricultural Science (Dairy Technology)
MAGrSc(Hort)	Master of Agricultural Science (Horticulture)
MAGSc	Master of Agricultural Science
MA in Maatskaplike Werk	Master of Arts in Social Work [Magister in die Lettere en Wysbegeerte in Maatskaplike Werk] : Stell.
MA(Lettres)	Master of Arts (Letters) [Maître ès Arts (lettres)] : Montr.
MA(Library Science) [MA (Biblioteekkunde)]	Master of Library Science [Magister in Biblioteekkunde] : Pret.
MA(LibSc)	Master of Library Science
MAO	Master of Obstetrics
MA(Orthophonie et Audiologie)	Master of Arts (Orthophonics and Audiology) [Maître ès Arts (orthophonie et audiologie)] : Montr.
MA(Ph)	Master of Arts (Psychology) [Maître ès Arts (philosophie)] : Ott.
MA(Philosophie)	Master of Arts (Philosophy) [Maître ès Arts (philosophie)] : Montr.
MA(PolSc) [MA(Staatswetenskappe)]	Master of Arts in Political Science [Magister in Lettere en Wysbegeerte in Staatswetenskappe] : Pret.
MA(Psychologie)	Master of Arts (Psychology) [Maître ès Arts (psychologie)] : Montr.
MArch	Master of Architecture [Magister in die Argitektuur : O.F.S., Pret.]
MArch(CP)	Master of Architecture (Community Planning)
MASc	Master of Applied Science
MA(ScMédiévales)	Master of Arts (Mediæval Studies) [Maître ès Arts (sc. médiévales)] : Montr.
MA(SS)	Master of Arts in Social Science
	Master of Arts in Social Sciences [Magister Artium in die Sosiale Wetenskappe] : S.A.
MA(SW)	Master of Arts in Social Sciences [Magister in Lettere en Wysbegeerte in Sosiale Wetenskappe] : Pret.

MB	Bachelor of Medicine [Bachelier en Médecine : Laval ; Baccalaureus in Geneeskunde : Pret., Stell.]
MBA	Master of Business Administration [Magister in Besigheidsadministrasie : Pret.]
MCD	Master of Civic Design
MCE	Master of Civil Engineering
MCh	Master of Surgery
MChD	Master of Dental Surgery
MChE	Master of Chemical Engineering
MChir	Master of Surgery
MChOrth	Master of Orthopædic Surgery
MCL	Master of Civil Law
MCISc	Master of Clinical Science
MCom	Master of Commerce [Magister in die Handel : 'O.F.S. ; Magister in Handel : Pret.]
MComm	Master of Commerce [Magister in die Handelwetenskappe : Stell.]
MD	Doctor of Medicine [Docteur en Médecine : Laval, Montr., Ott. ; Doktor in Geneeskunde : Pret. ; Doktor in die Geneeskunde : Stell.]
MDiv	Master of Divinity
MDS	Master of Dental Surgery
MDS	Master of Dental Science
ME	Master of Engineering
ME(Auto)	Master of Automobile Engineering
ME(Civil)	Master of Engineering (Civil)
ME(Elec)	Master of Engineering (Electrical)
ME(Mech)	Master of Engineering (Mechanical)
MEc	Master of Economics
MEcon	Master of Economics
MED	Master of Education [Magister in die Opvoedkunde : O.F.S., Stell. ; Magister in Opvoedkunde : Pret.]
MEdPh	Master in Education : Hull, Manc. Master of Physical Education [Magister in Liggaamlike Opvoeding] : Stell.
MEE	Master of Electrical Engineering
ME(Elec)	Master of Engineering (Electronics)
MEng	Master of Engineering
MEngSc	Master of Engineering Science
ME(PubHealth)	Master of Engineering (Public Health)
MetE	Metallurgical Engineer
MF	Master of Forestry
MHA	Master of Hospital Administration
MIISc	Master of Home Science
MIng	Master of Engineering [Magister in die Ingenieurswese] : Stell.
ML	Master of Laws
MLib	Master of Library Science
MLibSc	Master of Library Science
MLitt	Master of Letters
MLS	Master of Library Science
MME	Master of Mining Engineering
MMechE	Master of Mechanical Engineering : Jadavpur
MMed	Master of Mechanical Engineering
MMed(Path)	Master of Medicine [Magister in die Geneeskunde : Pret., Stell.]
MMedSc	Master of Medicine in Pathology
MMet	Master of Medical Science
MMetE	Master of Metallurgy
MMil	Master of Metallurgical Engineering
MMus	Master of Military Science [Magister in die Krygskunde] : Stell.
MO	Master of Music [Maître en Musique : Montr. ; Magister in die Musiek : O.F.S., Stell.]
MOG	Master of Obstetrics
MOL	Master of Obstetrics and Gynæcology
MP	Master of Oriental Learning
MPE	Master of Planning
	Master of Physical Education

MPharm	Master of Pharmacy [Maître en Pharmacie : Laval, Montr.]
MPhil	Master of Philosophy
MPsSc	Master of Psychological Science
MRad	Master of Radiology
MRI	Master of Industrial Relations [Maître en Relations industrielles] : Montr.
MRurSc	Master of Rural Science
MS	Master of Surgery
MSA	Master of Science in Agriculture [Maître ès Sciences agricoles : Montr.]
MSc	Master of Science [Maître ès Sciences : Montr. ; Magister in die Wis- en Natuurkunde : Pret. ; Magister in die Natuurwetenskappe : O.F.S., Stell., S.A.]
MSc	Master of Sciences [Maître ès Sciences] : Laval, Ott. Master of Science in Applied and Industrial Chemistry : Cape T. Master of Science in Engineering : Cape T. Master of Science in Land Surveying : Cape T.
MScA	Master of Applied Science [Maître en Sciences appliquées] : Montr.
MScAg	Master of Science in Agriculture
MScAgr	Master of Science in Agriculture
MSc(Agr)	Master of Science (Agriculture)
MSc(Agri)	Master of Science (Agriculture)
MScAgric	Master of Science in Agriculture : Sind
MSc(Agric)	Master of Science in Agriculture Master of the Science of Agriculture : Ceyl. Master of Science in Agriculture Master of Science (Agriculture) : Lond. Master of Agriculture [Magister in Landbou] : Pret.
MSc(AgricEng) [MSc (AgricIng)]	Master of Agricultural Engineering [Magister in Landbou-Ingenieurs- wese] : Pret.
MScApp	Master of Applied Science
MSc(Appl)	Master of Science (Applied)
MSc(Applied)	Master of Applied Science
MSc(Cer)	Master of Science in Ceramics
MScChemTech	Master of Science in Chemical Technology
MSc(ChemTech)	Master of Science in Chemical Technology
MSc(CP)	Master of Science (Community Planning)
MScD	Master of Science in Dentistry
MSc(Dent)	Master of Science in Dentistry
MSc(Dietetics) [MSc (Dieetkunde)]	Master of Dietetics [Magister in Dieetkunde] : Pret.
MSc(Econ)	Master of Science in Economics Master of Economic Science : Hull Master of Science (Economics) : Lond.
MSc(Elec)	Master of Science (Electronics)
MScEng	Master of Science in Engineering Master of the Science of Engineering : Ceyl.
MSc(Eng)	Master of Science in Engineering Master of Science (Engineering) : Lond.
MSc(Engg) (Electrical Machine Design)	Master of Science (Engineering) (Electrical Machine Design)
MSc(EstMan)	Master of Science (Estate Management)
MScF	Master of the Science of Forestry Master of Science in Forestry : New Br., Melb.
MSc(Glass)	Master of Science in Glass
MSc(Home)	Master of Science (Home)
MSc(Hort)	Master of Science in Horticulture
MSc in Arts	Master of Science in Arts
MSc in Bosbou	Master of Science in Forestry [Magister in die Natuurwetenskappe in Bosbou] : Stell.
MSc(IndChem)Tech	Master of Science in Technology (Industrial Chemistry)
MSc in Huishoudkunde	Master of Science in Home Economics [Magister in die Natuurwetens- kappe in Huishoudkunde] : Stell.
MSc in Landbou	Master of Science in Agriculture [Magister in die Natuurwetenskappe in Landbou] : Stell.
MSc in Voedseltegnologie	Master of Science in Food Technology [Magister in die Natuurwetens- kappe in Voedseltegnologie] : Stell.

## ABBREVIATIONS

MScMed	Master of Science in Medicine
MSc(Médecine et Chirurgie Expérimentales)	Master of Science (Experimental Medicine and Surgery) [Maître ès Sciences (médecine et chirurgie expérimentales)] : Montr.
MSc(Medical)	Master of Science (Medical)
MSc(MetEngg)	Master of Science (Metallurgical Engineering)
MSc(Min)	Master of Science in Mining
MSc(Nutr)	Master of Science (nutrition) [Maître ès Sciences (nutrition)] : Montr.
MSc(QS)	Master of Quantity Surveying [Magister in Bourekenkunde] : Pret.
MScRel	Master of Religious Science [Maître en Sciences religieuses] : Montr.
MScSoc	Master of Social Sciences [Maître en Sciences sociales] : Laval
	Master of Social Science [Maître ès Sciences sociales] : Montr.
MScSur	Master of Science in Land Surveying
MScTech	Master of Technical Science
MSc(Tech)	Master of Science (Technology)
MServSoc	Master of Social Service [Maître en Service social] : Laval
MSocSc	Master of Social Science [Magister in Sosiale Wetenskappe : O.F.S.]
MSocSc(SW)	Master of Social Science (Social Welfare)
MS(Ortho)	Master of Orthopædic Surgery
MSP	Master of Science in Pharmacy
MSS	Master of Social Work [Maître en Service social] : Montr.
MSW	Master of Social Work
MT	Master of Teaching
MTech	Master in Technology
MTelE	Master of Telecommunication Engineering
MTh	Master of Theology
MusB	Bachelor of Music
MusBac	Bachelor of Music
	Bachelor in Music : Acad.
MusD	Doctor of Music
MusDoc	Doctor of Music
MusM	Master of Music
MusMas	Master in Music
MVSc	Master of Veterinary Science
PhD	Doctor of Philosophy [Docteur en Philosophie : Montr., Ott. ; Doktor in Wysbegeerte : O.F.S.]
	Doctor in Philosophy : Liv.
PhD(Ing)	Doctor of Philosophy (Engineering) [Doktor in die Wysbegeerte (Inge- nieurswese)] : Stell.
PhD(Lettres)	Doctor of Philosophy (Letters) [Docteur en Philosophie (lettres)] : Montr.
PhD(Médecine et Chirurgie Expérimentales)	Doctor of Philosophy (Experimental Medicine and Surgery) [Docteur en Philosophie (médecine et chirurgie expérimentales)] : Montr.
PhD(Philosophic)	Doctor of Philosophy (Philosophy) [Docteur en Philosophie (philosophie)] : Montr.
PhD(Psychologie)	Doctor of Philosophy (Psychology) [Docteur en Philosophie (psycho- logie)] : Montr.
PhD(ScMédiévales)	Doctor of Philosophy (Mediæval Studies) [Docteur en Philosophie (sciences médiévales)] : Montr.
PhmB	Bachelor of Pharmacy
ScD	Doctor of Science
STM	Master of Theology
ThB	Bachelor of Theology
ThD	Doctor of Theology
ThM	Master of Theology
VetMB	Bachelor of Veterinary Medicine

### C. ABBREVIATIONS FOR COMMONWEALTH UNIVERSITY DIPLOMAS AND CERTIFICATES

The list given below is not intended to include abbreviations for *all* diplomas, certificates and associateships awarded by Commonwealth universities or colleges of universities. It is restricted to those abbreviated forms which appear most frequently in the *Yearbook* and which consist entirely, or almost entirely, of initial letters ; and whose meaning therefore is unlikely in many cases to be immediately obvious to the reader.

It should be noted that many of the qualifications listed below are awarded by only one university or college.

AA	Associateship in Arts
AAUQ	Associateship in Accountancy of the University of Queensland
ACom	Associateship in Commerce
AFCE	Associateship in Fuel Technology and Chemical Engineering
AGT	Associateship in Glass Technology
AKC	Associateship of King's College, London
AKC(NS)	Associateship of the University of King's College, Canada
AMinlsTech	Associateship in Minerals Technology
AOSM	Associateship of the Otago School of Mines
ARCS	Associateship of the Royal College of Science
ARSM	Associateship of the Royal School of Mines
ASc	Associateship in Science
AUA	Associateship of the University of Adelaide
CertTM	Certificate in Medical Technology (Certificat en Technologie médicale)
CHP	Certificate in Public Health (Certificat en Hygiène publique)
CLS	Certificate in Library Science
CPH	Certificate in Public Health
CS	Certificate in Statistics
CT	Teaching Certificate
CTA	Certificate in the Theory of Accountancy
DA	Diploma in Anaesthetics
DAP&E	Diploma in Applied Parasitology and Entomology
DCE	Diploma in Chemical Engineering
DCEP	Diploma of Child and Educational Psychology
DCH	Diploma in Child Health
DCP	Diploma in Clinical Pathology
DDM	Diploma of Clinical Psychology (W. Aust.)
DDPH	Diploma in Dermatological Medicine
DDR	Diploma in Dental Public Health
DEE	Diploma in Diagnostic Radiology
DEE	Diploma in Electrical Engineering
DFA	Diploma in Foreign Affairs
DFM	Diploma in Forensic Medicine
DGC	Diploma in Guidance and Counselling
DGO	Diploma in Gynæcology and Obstetrics
DIIDP	Diploma in Dental Public Health (Diplôme en Hygiène publique dentaire)
DHP	Diploma in Public Health (Diplôme en Hygiène publique)
DHVP	Diploma in Veterinary Public Health (Diplôme en Hygiène publique vétérinaire)
DIA	Diploma in International Affairs
DIC	Diploma of Membership of Imperial College of Science and Technology (London)
DIH	Diploma in Industrial Chemistry (Canterbury, New Zealand)
DIH	Diploma in Industrial Health
DipALing	Diploma in Applied Linguistics
DipAM	Diploma in Applied Mechanics
DipAssSc	Diploma in Association Science
DipFA	Diploma in Fine Arts
DipGT	Diploma in Glass Technology
DipHE	Diploma in Highway Engineering
DipHSc	Diploma in Home Science
DipIPA	Diploma in Public Administration
DipMFOS	Diploma in Maxial Facial and Oral Surgery
DipNEd	Diploma in Nursery School Education
DipOrth	Diploma in Orthodontics
DipO&G	Diploma in Obstetrics and Gynæcology
DipP&OT	Diploma in Physiotherapy and Occupational Therapy (Diplôme en Physiothérapie et Occupation Thérapie)
DipQS	Diploma in Quantity Surveying
DipS&PA	Diploma in Social and Public Administration
DipSS	Diploma in Social Studies
DipSW	Diploma in Social Work



DipT	Diploma in Teaching
DipTCP	Diploma in Town and Country Planning
DipTP	Diploma in Town Planning
DipVFM	Diploma in Valuation and Farm Management
DJ	Diploma in Journalism
DLO	Diploma in Laryngology and Otology
DL&O	Diploma in Laryngology and Otology
DLW	Diploma in Labour Welfare
DME	Diploma in Mechanical Engineering
DMP	Diploma in Medical Psychology
DMR	Diploma in Medical Radiology
DMR(D) or (T)	Diploma in Radiology (radiodiagnosis or radiotherapy)
DMRE	Diploma in Medical Radiology and Electricity
	Diploma in Medical Radiology and Electrology
DMR&E	Diploma in Medical Radiology and Electrology
DNE	Diploma in Nursing Education
DNSA	Diploma in Nursing Service Administration
DO	Diploma in Ophthalmology
DOMS	Diploma in Ophthalmic Medicine and Surgery
DOS	Diploma in Orthopædic Surgery
DOT	Diploma in Occupational Therapy
DP	Diploma in Psychiatry
DPA	Diploma in Public Administration
DPD	Diploma in Public Dentistry
DPH	Diploma in Public Health
DPHN	Diploma in Public Health Nursing
DPM	Diploma in Psychological Medicine
DPSA	Diploma in Public and Social Administration
DSA	Diploma in Social Administration
DTA	Diploma in Tropical Agriculture
DTC	Diploma in Textile Chemistry
DTCD	Diploma in Tuberculosis and Chest Diseases
DTD	Diploma in Tuberculosis Diseases
	Diploma in Tuberculous Diseases
DTM	Diploma in Tropical Medicine
DTM&H	Diploma in Tropical Medicine and Hygiene
DTR	Diploma in Therapeutic Radiology
DTRP	Diploma in Town and Regional Planning
DV	Diploma in Venereology
DV&D	Diploma in Venereology and Dermatology
DVPH	Diploma in Veterinary Public Health
FECM	Fellowship of the Elder Conservatorium of Music
HDBS	Higher Diploma in Bantu Studies
HED	Higher Education Diploma
HPED	Higher Primary Education Diploma
HPTC	Higher Primary Teacher's Certificate
IH	Diploma in Public Health Nursing (Diplôme d'Infirmière Hygiéniste)
JD	Diploma in Journalism
LDBS	Lower Diploma in Bantu Studies
LDS	Licentiate in Dental Surgery
LMS	Licentiate in Medicine and Surgery
LP	Legal Procurator
I.STD	Lower Secondary Teacher's Diploma
LTh	Licentiate of Theology
SD	Diploma in Statistics
STh	Scholar of Theology
TD	Teaching Diploma
TDD	Diploma in Tubercular Diseases
	Diploma in Tuberculous Diseases
UED	University Education Diploma

# D. ABBREVIATIONS FOR ORDERS, DECORATIONS AND QUALIFICATIONS OTHER THAN UNIVERSITY DEGREES, DIPLOMAS AND CERTIFICATES

To save space, non-university distinctions are omitted from the staff lists, with the exception of honours conferred by the crown and certain fellowships of learned bodies as set out in this list (*see also* p. xii). In the case of physicians and civil, electrical and mechanical engineers one membership of the senior professional body as set out in this list may be included. It is regretted that considerations of space have imposed these limitations on the references which can be included to professional qualifications; no disparagement is, of course, intended of professional or other non-academic qualifications which cannot be included in this work.

The abbreviations used are not in all cases those adopted by the body concerned, e.g. FIP is used instead of FInstP.

AFC	Air Force Cross
AFM	Air Force Medal
BEM	British Empire Medal
CA	Member of the Institute of Chartered Accountants of Scotland
CB	Companion of the Bath
CBE	Commander Order of British Empire
CD	Canadian Forces Decoration
CGM	Conspicuous Gallantry Medal
CH	Companion of Honour
CI	Imperial Order of the Crown of India
CIE	Companion of the Order of the Indian Empire
CMG	Companion of the Order of St. Michael and St. George
CSI	Companion of the Order of the Star of India
CVO	Commander of the Royal Victorian Order
DBE	Dame of the Order of the British Empire
DCM	Distinguished Conduct Medal
DFC	Distinguished Flying Cross
DFM	Distinguished Flying Medal
DSC	Distinguished Service Cross
DSM	Distinguished Service Medal
DSO	Companion of the Distinguished Service Order
ED	Efficiency Decoration
FAA	Fellow of the Australian Academy of Science
FAAAS	Fellow of the American Association for the Advancement of Science
FAAOS	Fellow of the American Academy of Orthopaedic Surgeons
FACD	Fellow of the American College of Dentists
FACP	Fellow of the American College of Physicians
FACS	Fellow of the American College of Surgeons
FAIA	Fellow of the American Institute of Architects
FAPS	Fellow of the American Physical Society
FASA	Fellow of the Australian Society of Accountants
FBA	Fellow of the British Academy
FBPsS	Fellow of the British Psychological Society
FCA	Fellow of the Institute of Chartered Accountants in England and Wales
FCAA	Fellow of the Australian Institute of Cost Accountants
FCA(Aust)	Fellow of the Institute of Chartered Accountants in Australia
FCIC	Fellow of the Canadian Institute of Chemistry
FCIS	Fellow of the Chartered Institute of Secretaries
FDSRCS	Fellow in Dental Surgery of the Royal College of Surgeons of England
FDSRCSEd	Fellow in Dental Surgery of the Royal College of Surgeons of Edinburgh
FFA	Fellow of the Faculty of Actuaries
FFARCS	Fellow of the Faculty of Anaesthetists of the Royal College of Surgeons of England
FFR	Fellow of the Faculty of Radiologists
FGS	Fellow of the Geological Society
FGSA	Fellow of the Geological Society of America
FIA	Fellow of the Institute of Actuaries
FIANZ	Fellow of the Institute of Actuaries of New Zealand
FIM	Fellow of the Institute of Metallurgists
FIP	Fellow of the Institute of Physics

## ABBREVIATIONS

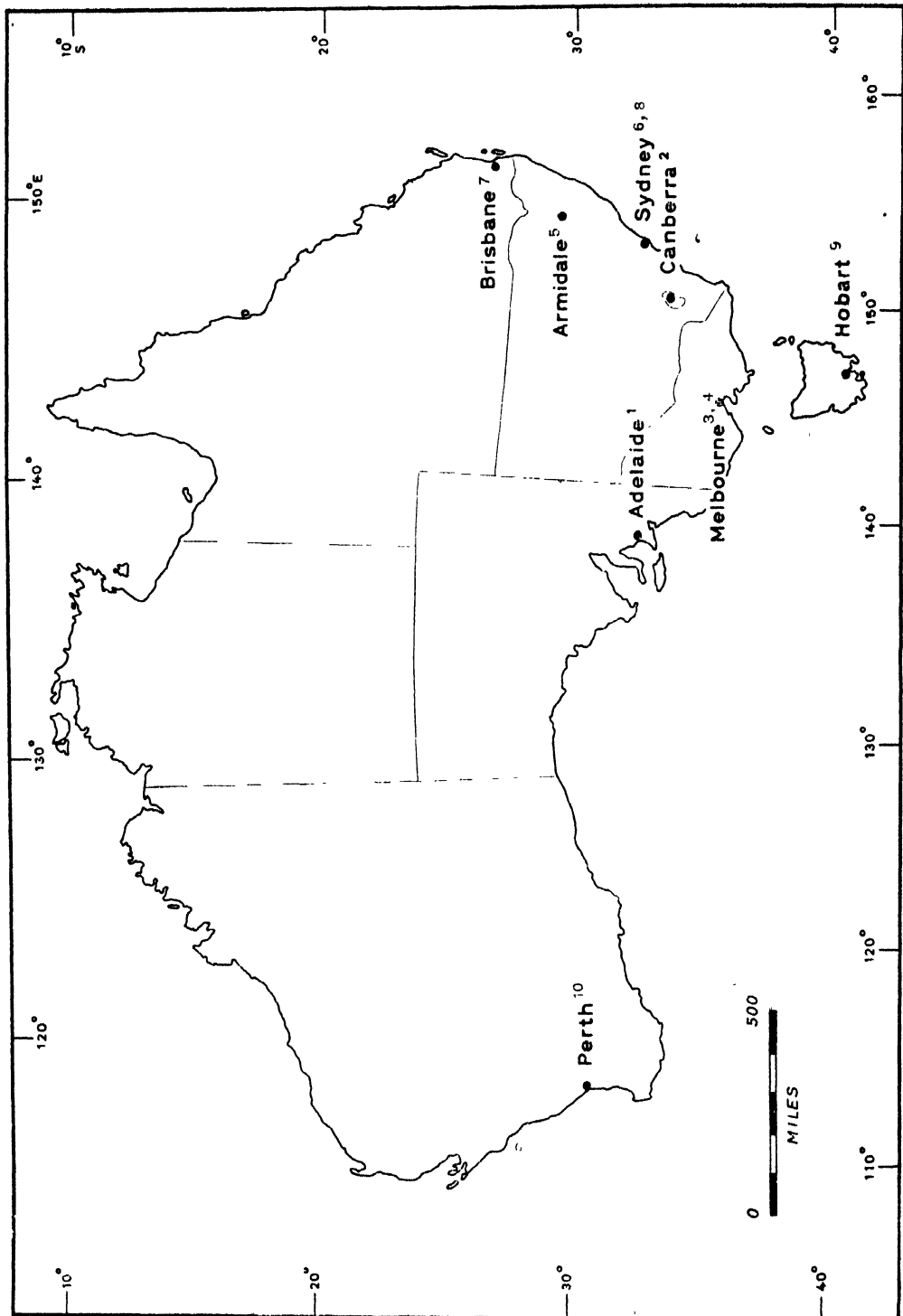
FLA	Fellow of the Library Association
FLS	Fellow of the Linnean Society
FNI	Fellow of the National Institute of Sciences (India)
FNZIA	Fellow of the New Zealand Institute of Architects
FNZIC	Fellow of the New Zealand Institute of Chemistry
FPANZ	Fellow, Public Accountant, New Zealand
FPAS	Fellow of the Pakistan Academy of Sciences
FRACI	Fellow of the Royal Australian Chemical Institute
FRACP	Fellow of the Royal Australasian College of Physicians
FRACS	Fellow of the Royal Australasian College of Surgeons
FRaES	Fellow of the Royal Aeronautical Society
FRAI	Fellow of the Royal Anthropological Institute
FRAIA	Fellow of the Royal Australian Institute of Architects
FRAM	Fellow of the Royal Academy of Music
FRANZ	Fellow, Registered Accountant, New Zealand
FRCM	Fellow of the Royal College of Music
FRCO	Fellow of the Royal College of Organists
FRCOG	Fellow of the Royal College of Obstetricians and Gynæcologists
FRCP	Fellow of the Royal College of Physicians of London
FRCPCan	Fellow of the Royal College of Physicians of Canada
FRCPed	Fellow of the Royal College of Physicians of Edinburgh
FRCPi	Fellow of the Royal College of Physicians of Ireland
FRCS	Fellow of the Royal College of Surgeons of England
FRCSCan	Fellow of the Royal College of Surgeons of Canada
FRCSed	Fellow of the Royal College of Surgeons of Edinburgh
FRCSI	Fellow of the Royal College of Surgeons in Ireland
FRCSVs	Fellow of the Royal College of Veterinary Surgeons
FRFPSGlas	Fellow of the Royal Faculty of Physicians and Surgeons of Glasgow
FRHistS	Fellow of the Royal Historical Society
FRIAI	Fellow of the Royal Institute of Architects of Ireland
FRIAS	Fellow of the Royal Institute of Architects of Scotland
FRIBA	Fellow of the Royal Institute of British Architects
FRIC	Fellow of the Royal Institute of Chemistry
FRMetS	Fellow of the Royal Meteorological Society
FRS	Fellow of the Royal Society
FRSCan	Fellow of the Royal Society of Canada
FRSL	Fellow of the Royal Society of Literature
FRSNZ	Fellow of the Royal Society of New Zealand
FRSSAf	Fellow of the Royal Society of South Africa
FSA	Fellow of the Society of Antiquaries
FSAA	Fellow of the Society of Incorporated Accountants and Auditors
FSALA	Fellow of the South African Library Association
FTCL	Fellow of Trinity College of Music, London
FTI	Fellow of the Textile Institute
GBE	Knight or Dame Grand Cross Order of the British Empire
GC	George Cross
GCB	Knight Grand Cross of the Bath
GCIE	Knight Grand Commander of the Indian Empire
GCMG	Knight Grand Cross of St. Michael and St. George
GCSI	Knight Grand Commander of the Star of India
GCVO	Knight or Dame Grand Cross of the Royal Victorian Order
GM	George Medal
GMBE	Grand Master Order of the British Empire
ISO	Imperial Service Order
JP	Justice of the Peace
KBE	Knight Commander Order of the British Empire
KCB	Knight Commander of the Bath
KCIE	Knight Commander of the Indian Empire
KCMG	Knight Commander of St. Michael and St. George
KCSI	Knight Commander of the Star of India
KCVO	Knight Commander of the Royal Victorian Order
KG	Knight of the Order of the Garter
KP	Knight of the Order of St. Patrick
KT	Knight of the Order of the Thistle
MBE	Member of the Order of the British Empire

MC	Military Cross
MEIC	Member of the Engineering Institute of Canada
MICE	Member of the Institution of Civil Engineers
MIEAust	Member of the Institution of Engineers of Australia
MIEE	Member of the Institution of Electrical Engineers
MIE(India)	Member of the Institute of Engineers, India
MIMechE	Member of the Institution of Mechanical Engineers
MM	Military Medal
MNZIE	Member of the New Zealand Institution of Engineers
MRACP	Member of the Royal Australasian College of Physicians
MRCPP	Member of the Royal College of Physicians of London
MRCPEd	Member of the Royal College of Physicians of Edinburgh
MRCPI	Member of the Royal College of Physicians of Ireland
M(SA)ICE	Member of the South African Institution of Civil Engineers
M(SA)IEE	Member of the South African Institute of Electrical Engineers
M(SA)IME	Member of the South African Institution of Mechanical Engineers
MVO	Member Royal Victorian Order
OBE	Officer Order of the British Empire
OM	Order of Merit
QC	Queen's Counsel
RRC	Royal Red Cross
TD	Territorial Decoration
VC	Victoria Cross
VD	Volunteer Officers' Decoration



# AUSTRALIA

- 1 University of Adelaide (p. 21)
- 2 Australian National University (p. 31)
- 3 University of Melbourne (p. 40)
- 4 Monash University (p. 53)
- 5 University of New England (p. 55)
- 6 University of New South Wales (p. 60)
- 7 University of Queensland (p. 69)
- 8 University of Sydney (p. 76)
- 9 University of Tasmania (p. 92)
- 10 University of Western Australia (p. 96)



The Alice Springs 1000 km to the north-west of Adelaide, and the Alice Springs 1000 km to the north-west of Adelaide.

# THE UNIVERSITIES OF AUSTRALIA

[Contributed by Professor C. Sanders, Professor of Education in the University of Western Australia]

**HISTORY.** The history of the Australian universities may be divided into five periods covering a span of over a century. The first period, which extended from the middle to the end of the nineteenth century, saw the growth towards nationhood of the Australian colonies. During this period four universities were established, and their earliest architecture in the Gothic style bears witness to their Victorian origins. The second period began with the federation of the colonies and the creation of the Commonwealth of Australia in 1901. It continued until the conclusion of the first world war when there were six universities in the state capital cities, the first three—Sydney (New South Wales), Melbourne (Victoria) and Adelaide (South Australia)—carrying the names of the cities themselves, and the second three—Tasmania (Hobart), Queensland (Brisbane) and Western Australia (Perth)—the names of the states in which they were established. The third period lasted from 1918 until the conclusion of the second world war. During its first seven years there was a post-war enrolment bulge followed by a short resettlement, after which the depression of the thirties limited development. Two university colleges, Canberra University College and New England University College (Armidale), were established during the period.

In the main, the years between the wars were years of consolidation rather than of spectacular progress. Student enrolments in the universities and university colleges during 1939 numbered 14,500. This was a modest total; but Australia, in keeping with the university traditions of Great Britain, does not recognize many educational institutions as having university status in the American sense. However, some such institutions, as is explained later, are affiliated for various purposes to the universities.

The cessation of hostilities in 1945 marked the beginning of the fourth period of university growth and the admission to the universities of large numbers of ex-service students. The period was associated with heavy enrolments in science, applied science and technology. It lasted until 1957 when the Murray committee on Australian universities presented its report to the commonwealth government. By 1948, student numbers rose to 32,500, and although an easing in enrolments followed the disappearance of assisted ex-service students, an increasing war-time and post-war birth-rate, migration on a larger scale than hitherto, and a constant need for scientists, technologists and teachers, heralded in the fifth period, in which there appears to be no limit to the possible future expansion of higher education in Australia. Increasing financial difficulties

among the universities, during the later years of the fourth period, gave rise in 1957 to the enquiry conducted by the Committee on Australian Universities under the chairmanship of Sir Keith Murray, chairman of the U.K. University Grants Committee.

The fifth period began, when early in 1958 the commonwealth government announced, after considering the committee's report, that it would provide an extra £A21,400,000 during the triennium 1958-60. The provision of additional money was a first step towards the rehabilitation of the universities. It was followed by a decision during 1958 to create a permanent national body, to be concerned, amongst other things, with university finance. This body, in accordance with legislation passed in 1959, is now called 'The Australian Universities Commission' and its present chairman is Sir Leslie Martin, formerly of Melbourne.

Sydney (1850) and Melbourne (1853) are the most senior of the Australian universities. As institutions of higher learning dating from the colonial period, they are of approximately equal size and are also about the oldest of their kind in the Asian-Australasian hemisphere. The remaining universities established before the first world war include Adelaide (1874), which began with private endowments, Tasmania (1890), Queensland (1909) and Western Australia (1911). To these now need to be added the Australian National University, Canberra (1946), the University of New South Wales, Sydney (1958), originally established in 1949 as the New South Wales University of Technology, the University of New England (1954), which began as one of the university colleges in 1938, and Monash University, Melbourne (1958), at present in its formative stage.

The second college founded between the wars, Canberra University College (1930), was a commonwealth creation in the Australian Capital Territory to provide for the higher education of civil servants and their families when the commonwealth parliament moved from Melbourne to the national capital. This college in 1960 became the undergraduate school of general studies (in arts and science) of the Australian National University. New England University College in northern New South Wales was, until its elevation, an offshoot of the University of Sydney. To-day it is the only institution of full university status outside an Australian capital city.

At the time of writing, therefore, there are ten universities in Australia and no independent university colleges. Newcastle University College, founded in 1951, functions as a constituent institution of the University of New South Wales,



while Townsville University Centre, to be opened in 1961, represents an extension of the teaching work of the University of Queensland.

**CONSTITUTION.** (a) *Structure of Universities.* The Australian universities are unitary teaching, examining and research institutions. Most of them have affiliated residential colleges, halls or hostels, in which tutorial assistance is provided for resident students. Such teaching, however, is generally supplementary to the teaching of the universities which conduct the examinations and award the degrees. Historically, the universities are secular institutions although most of the residential colleges (located on the university sites) are religious foundations. Each university has certain characteristics which give it individuality. Some more than others have affiliations with governmental research institutes, agricultural colleges, forestry schools, technical colleges and teachers' colleges. Among universities created since the second world war, more significant differences are to be observed than among universities of earlier establishment. The Australian National University, which began as a post-graduate research institution, was reorganized in 1960 to include undergraduate studies when Canberra University College became its school of general studies. The original university, which incorporated four postgraduate schools, was renamed the institute of advanced studies. At this level the university is substantially residential. Further, the University of New England, which for internal students is almost entirely residential, now makes provision for a large number of external students. Moreover, the teaching work of the University of New South Wales, which has power to incorporate constituent colleges, is undertaken not only at Newcastle but also in other centres in New South Wales. Similarly, the scientific and technological emphasis (including medicine) in the curriculum of the University of New South Wales is to be repeated in the development of the new Monash University at Clayton, near Melbourne, in Victoria; and in the same way the Townsville University Centre, which represents a first step towards the decentralization of higher education in Queensland, will start in 1961 with first-year classes in science and engineering although it will also provide instruction in some of the subjects of the faculty of arts.

(b) *Internal Government.* Except for the Australian National University in the Australian Capital Territory, the universities are situated in the six Australian states. There are three universities and one university college in New South Wales, two universities being situated in Sydney and the other in an old-established district in the northern highlands of the state. Each of the other states has a university in its capital city although in Melbourne there are now two universities. Some differences between the older universities arise from their decentralization as well as from the fact that, having been established by colonies for

states to serve local needs, they were, until 1958, mainly dependent on state financial support.

Periodic royal commissions and the subsequent or independent actions of state legislatures have altered from time to time the constitutions of the universities as well as the composition of their governing bodies. Each governing body in its own way is representative of community interests, and most governing bodies are also representative of the body of graduates and the academic staff. The Australian National University, since its reconstitution in 1960, has a board of studies responsible for the institute of advanced studies and a second board responsible for the school of general studies. There is in addition a professorial board, with the vice-chancellor as chairman, which, although it has no executive powers, acts in an advisory capacity to the governing body, or council, of the university.

Among the universities some appointments are made by governors-in-council, and on a number of the governing bodies of the universities there are parliamentary members, or *ex-officio* members, such as a state director of education or an appointee of a state treasury, or co-opted members. In some universities the students are represented on the governing body, while at Melbourne and at the University of New South Wales, industry and commerce have specific representation. Among the universities the size of the governing bodies varies between nineteen and thirty-eight.

Except for Sydney, Queensland and Western Australia, the governing body of each university and university college is called the council; but Newcastle University College, which is controlled by the council of the University of New South Wales, has an advisory committee to assist the council. At the three universities first mentioned the term 'senate' is employed to denote the governing body.

Each Australian university, with the exception of the University of New South Wales, has also a second body with a certain amount of responsibility in university government. This body, which mostly consists of university graduates, has several names. At the universities of Sydney, Melbourne, New England, Tasmania and Western Australia, as well as at the Australian National University, the body of graduates is called convocation. At Queensland it is called the council, and at Adelaide the senate.

The major function of the graduate body is to elect members to the governing body; but only at the University of Adelaide does the graduate body have a preponderance of representation. In other universities it provides from less than one-fifth to two-fifths of the membership. Although in none of the universities has the graduate body power to initiate legislation, it occasionally has authority to approve, refer back or delay statutes and similar legislation referred to it by the governing body, and it may make suggestions regarding university welfare. In exercising its functions it sometimes works through standing committees.

The governing body, whether council or senate, generally meets at least once a month. It appoints standing committees or committees to deal with finance, investments, buildings, site development, staff and establishments, and so forth. Some of its work may be channelled through a general purposes committee, or there may be a joint committee of governing body and teaching staff to deal with matters of common policy. The powers, functions and procedures of governing bodies and graduate bodies are generally defined in university acts and statutes. When a governing body adopts statutes or by-laws, they must, as a rule, be submitted for final approval to a minister, governor or governor-in-council, or the particular legislation must be laid on the table of each house of parliament. Most governing bodies have power without further reference to establish rules and regulations for ordinary university working.

The titular head of an Australian university is the chancellor, usually a citizen of distinction, who acts as chairman of the governing body and confers degrees and diplomas. He is supported by a deputy or pro-chancellor.

The vice-chancellor is central to the organization of university government. He provides the liaison between the various deliberative and executive bodies, both general and academic, although his powers and functions vary somewhat from university to university. The vice-chancellor holds a permanent appointment as chief executive officer of the university, and is a member of the governing body. At most of the universities the chairman of the chief academic body or a senior professor acts in the absence of the vice-chancellor. Melbourne has two pro-vice-chancellors who are senior members of the academic staff, while at Sydney, where the vice-chancellor is also the principal of the university, there is a deputy vice-chancellor as well as an assistant principal and a registrar. Elsewhere the registrar is the senior officer under the vice-chancellor. At each of the older universities the state governor acts as 'visitor'.

The chief academic body is generally called the professorial board and corresponds to some extent with the senate of a university in the United Kingdom. It consists of deans, professors and certain other staff, some of whom may be non-professorial heads of departments, or staff representatives below professorial rank. The board usually appoints its own chairman and it may work through committees such as a committee of deans. At the Australian National University the vice-chancellor acts as chairman of the professorial board, and action has been taken in Tasmania for the vice-chancellor to perform a similar function. Instead of a professorial board Adelaide has an education committee including chancellor, vice-chancellor, council members, heads of academic departments and the librarian. The pattern of government of the Australian National University has been mentioned above. The control of this particular institution differs in a number of respects from the other

universities because of the special nature of its composition.

University government usually works from below upwards, the chief academic body advising the governing body on academic matters or transmitting legislation for the governing body's imprimatur or further action. Below the senior academic body are the faculties in which degrees are awarded, or the boards of study responsible for diploma courses. Many matters remain at faculty level and most of the rest are finally dealt with by professorial board or its equivalent. The deanship is an honorary academic office in most universities; but sometimes the dean receives an allowance. At Melbourne there is a permanent dean of postgraduate studies.

**RELATIONSHIP TO GOVERNMENT.** The Australian universities, by legislative enactment or charter, are autonomous and self-governing, and as most of the earlier ones were created by colonial or state governments, they were, until comparatively recently, mainly financed by state parliaments. The Commonwealth is directly responsible only for the Australian National University. The second world war, however, emphasized the national as well as the local importance of the universities. This led to the entry of the Commonwealth into the area of university finance during the post-war period and, following consideration of the Murray report, to the establishment in 1959 of a permanent Australian Universities Commission, to fulfil, among other things, the functions of a grants committee.

Most university governing bodies, as explained above, contain members of the local parliament or appointees of the governor-in-council. A reason for parliamentarians, usually not drawn from one house or party, is to have spokesmen in the legislatures. Mostly the idea has worked well and it has tended to be incorporated in the constitutions of universities of recent creation.

Communication between a university governing body and a state government is usually by way of vice-chancellor and state premier, since the work of universities generally lies outside the function of the minister of education responsible for the schools. Occasionally the chancellor will lead a deputation to the premier on an important issue. Each year the universities present a report on their activities to the local parliament.

After the war the Commonwealth provided special grants to the universities to assist in the higher education of ex-servicemen. It also made increasing sums of money available for research. It converted a war-time assistance scheme for reserved students into a broadly based system of scholarships, and it began to sponsor students from Asia and the Pacific islands under the Colombo Plan. This increase in commonwealth activity, now supported by the Murray recommendations, has greatly added to the importance of the Australian Vice-Chancellors' Committee at the national level, even though the committee's function is consultative rather than executive.

## AUSTRALIA

On student issues the Commonwealth refers to the National Union of Australian University Students, which to-day interests itself in international as well as national questions affecting students.

**FINANCE.** In the early post-war years the time-honoured method of university finance by state government grants, student fees and income from endowments began to collapse. During the war the Commonwealth gained control of income tax collection which previously had been shared with the states. After the war considerable numbers of ex-service students were admitted to the universities, and to assist their education the Commonwealth made special annual grants towards university running costs, and by agreement with the states, it made capital grants for buildings. However, with the tapering off of commonwealth moneys for ex-service students, most of the universities began to feel the effects of financial stringency. As a result, the Commonwealth, after negotiations with the states, appointed in 1950 an interim committee of enquiry into university finance.

After considering the interim committee's findings, the Commonwealth enacted legislation to make grants to the universities on the basis of £A1 for each £A3 of state grant and fees to a specified maximum. In 1951 the States Grants (Universities) Act was passed, and subsequent acts were passed in 1953, and annually from 1955 to 1958. With the enactment of the 1951 legislation, previous commonwealth grants and subsidies for various purposes, including grants for research, were consolidated into a single amount to be paid to each university through its state government. However, following receipt of the Murray committee's report in 1957, the Commonwealth enacted new legislation in 1958 and 1959. Under this legislation there is now a triennial review of university finance undertaken by the Australian Universities Commission. As indicated previously, the initial triennial grant was £A21,400,000 for the period 1958-60 of which a considerable proportion was regarded as emergency money. Since that time the Australian Universities Commission has visited the universities and has made its first recommendations for the triennium 1961-63.

To-day the main sources of revenue income for university running expenses consist of state and commonwealth grants, which in 1958 accounted for 69 per cent. of all such income. Total revenue income available to the universities in 1958 to meet ordinary running costs was £A16,894,040, the proportions being: state, 41 per cent.; commonwealth, 28 per cent.; student fees, 12 per cent.; endowments, etc., 5 per cent.; other, 14 per cent. However, if total university income from all sources (*i.e.* revenue and capital income for general and special purposes) is taken into account, then the amount available to the universities in 1958 was £A20,342,803 of which £A3,448,763 was capital income. Included in the

total sum was £A1,293,200, earmarked as grants for research.

**PRE-UNIVERSITY EDUCATION** (*see also* Appendix II). Students are usually admitted to the Australian universities between the ages of 17½ and 18½ years after twelve years of schooling although there is a trend in some states towards increasing the length of secondary education by a year. In most states children transfer to secondary education between the ages of 12 and 13 years after spending seven years in primary schools. Thus they receive five years of secondary education before being admitted to the universities. In Victoria the transfer is made a year earlier and in Queensland a year later so that children in these states receive six years or four years respectively of secondary education before entering the university.

At the time of writing proposed changes in the structure of secondary education in New South Wales have received ministerial approval following the state government's receipt of a report prepared by a committee under the chairmanship of the director of education, Dr. H. S. Wyndham. Under the proposals the transfer of school pupils from primary to secondary education will take place at about the age of 12 years following which there will be a school certificate examination at the end of four years of secondary schooling. After two further years of more advanced education a higher school certificate examination will be set, which will be linked with university matriculation.

In all states the examinations which mainly qualify for matriculation are held in November or December, while students tend to enter the universities in the following March. In New South Wales, pending the changes referred to above, and in Western Australia matriculation is mostly gained by means of the leaving examination at the age of 17 to 18 years. In Queensland the examination, at the same age, is called the senior public examination, and in Victoria and Tasmania it is called the matriculation examination. In South Australia matriculation is gained at a leaving certificate examination set to school pupils between the ages of 16 and 17 years; but there is at least one further year of study (leaving honours) beyond the minimum matriculation level. Victoria also has a leaving examination for school pupils between 16 and 17 years, and Tasmania a similar examination called the schools board examination. In Victoria and Tasmania the examinations mentioned are taken a year before the matriculation examination.

In all states except New South Wales the universities either conduct the public examinations at leaving standard or co-operate in their organization. In New South Wales the state department of education undertakes the responsibility. Some universities conduct a supplementary leaving or matriculation examination in February each year; but in each case where a 'matriculation examination' is set it is directly under a university matricu-

## INTRODUCTION

lation board or the university's professorial board. In several states there still exists an examination between the ages of 15 years and 16 years. This is called either the junior examination or the intermediate examination, and sometimes passes in the examination exempt from certain matriculation requirements. In Queensland the junior examination is conducted by the state education department while the university remains responsible for the senior public examination on which matriculation is based.

In the organization of Australian secondary education there are many independent secondary schools modelled on the pattern of the English grammar schools. Most of these schools are religious foundations. In the state educational systems, most secondary schools, although by no means all, are called high schools. Many of the older state secondary schools are of the academic type but newer schools are being erected on the comprehensive principle adapted to Australian conditions. To date, more students have entered the Australian universities from independent schools than from state schools, but the margin is narrowing, and there is now a rapid growth in secondary education in every Australian state.

**ADMISSION** (*see also* Appendix II). Each university decides its own matriculation requirements; and though there is no general standard for Australia, the universities recognize each other's qualifications. However, where faculty prerequisites apply, a matriculated candidate from another state usually needs to comply with the local conditions.

The universities of Sydney, New England, Tasmania and Western Australia, as well as Monash University, have a general matriculation with minimum prerequisites. Adelaide has introduced this kind of matriculation, which becomes fully effective in 1961. The University of New South Wales has a similar requirement, but it also recognizes the qualifying examination of the department of technical education of the state of New South Wales. Other universities have prerequisites for entry to faculties. For admission to the University of Melbourne a student must pass the leaving examination to sit for the university's matriculation examination, and he must also meet prerequisites.

Some universities have subgraduate diploma or certificate courses to which admission may be gained on qualifications less than matriculation. Most universities have some provision for unmatriculated students not proceeding to a degree; but there are restrictions on this form of enrolment. All universities make provision for students of mature age, and various tests of fitness are used in mature age examinations, including tests of general ability as well as of English usage.

A student with United Kingdom matriculation is generally admitted to matriculant status without further examination unless he has prerequisites to meet or there is a faculty entry restriction. Ordinary G.C.E. passes and Scottish

leaving lower passes are insufficient, so that all or some of local requirements must generally be met. Students from Asia with higher certificate passes of the Cambridge Local Examinations Syndicate have a reasonable chance of acceptance into unrestricted courses provided they meet any special conditions including an adequate command of English. Most universities treat such applications individually. For example, although the University of Melbourne specifies the qualifications from abroad it is prepared to accept, there is restricted entry to most of its faculties (*see below*). Further, some universities prefer an Asian student to spend a period in an Australian school or technical college and, if possible, to gain a local matriculation before university entrance; but there is no general rule. Graduates of recognized universities are usually accorded matriculant status and such additional status as each university is prepared to grant.

There is a summary of admission requirements in Appendix II, but students from abroad must always obtain direct from the registrar of the university concerned up-to-date information about the precise conditions of entry to first degree or postgraduate courses.

To-day most universities insist that students shall have a clean bill of health to gain admission. There is also a restricted entry to certain faculties and courses in various universities. This is particularly true in medicine although other courses are also affected. Restriction in medical and other faculties, giving rise to selection following matriculation, is due mainly to insufficient facilities to meet a rapidly increasing number of qualified applicants. In some cases intending medical students, as well as students wishing to enter other faculties, need to qualify for matriculation in the state in which the university is placed. Thus students from outside Australia cannot be certain of obtaining admission, although places are held for the best qualified. To continue in a course, and especially a course with restricted enrolment, students, whether Australian or other, may need to show a satisfactory rate of progress.

Admission to postgraduate diplomas demands graduation from a recognized university and often passes in an undergraduate course relevant to the diploma course. The admission of overseas students to higher degrees is decided by each faculty and university. To proceed to the degree of master in faculties of arts or science, a bachelor degree with honours is normally needed. Graduates with a lesser qualification must undertake additional study and pass an examination at honours standard before being permitted to present a thesis. The PhD degree is awarded in a number of departments and faculties in the Australian universities. For admission, students need to be graduates of senior standing with first or second class honours and preferably with a master's degree or some research experience if their honours work has not involved research. Most universities have a special committee or board of studies to decide applications. Reference to the

higher doctorates (LittD, LL.D, DSc, etc.) is made in the next section.

**STRUCTURE OF DEGREE AND DIPLOMA COURSES.** The pattern of Australian degree courses has been influenced more by the pattern of degree courses in England and Scotland than elsewhere. But there are some important differences in the structure of degree courses as between Australia and the United Kingdom. For example, although Australia endeavours to keep its standards in line with those of the United Kingdom, it places more emphasis on the importance of the pass degree. Its universities usually have more faculties, and there is a considerable stress on professional education at the university level. In addition, most Australian universities, but not all, admit 'external' students, at least within their own states, as well as 'part-time' internal students. There is also a tendency in Australia, especially in science and applied science, for honours courses to require an additional year of study, including research.

The 'unit' of study is an academic year's work (30 weeks approx.) in 'part' of a 'subject'; but a unit in the American sense would represent only a small, or very small, section of an Australian bachelor course. Australian universities, like universities in Britain, throw responsibility on the student, and hours in class are seldom an adequate criterion as to the quantity and quality of work expected to be covered by students. Although general-type courses exist, there is more emphasis on 'depth' and less on 'breadth' in the structure of Australian degree courses.

A 'department' is responsible for a 'course of study' in a subject (*e.g.* English) or in a group of subjects (*e.g.* modern languages). The course of study is divided into stages or parts by 'years of study' (*e.g.* year I or part I or stage I of the course, etc.), the parts comprising the units of the course (*e.g.* English I, II, III), English I being a first-year unit and English III a third-year unit. Students are not generally allowed to proceed to units of higher grade until they have passed the corresponding units of lower grade. Sometimes after the first year a department sets out its offerings in the following manner: English IIA, English IIB, English IIC, etc., students being allowed to select two or more units in their second and third years. Occasionally there is selection in each year of study, honours candidates being required to take certain specified units or more units than pass candidates.

Departments often suggest 'schemes of study', and sometimes related departments combine to make 'schools of study'. A unit in the arts faculty may involve from two to four lectures a week plus assignments, tutorials, attendance at discussion groups and so on. The lecture requirement is similar in science, but four, six or more hours of laboratory work are required.

Nine units spread over three years are normally needed to complete a bachelor course in arts or science, but courses of ten units exist. A typical

nine-unit course would include four units in the first year, three in the second and two in the third, an examination being held at the end of each year. A science student taking a first-year unit might spend six or more hours a week in class work. The same student taking a third-year unit would probably spend twelve or more hours a week, most of them in the laboratory. Because of the time-consuming demands of science courses, there is to-day a trend in some universities to retain the three-year course but reduce the total academic load, while in other universities the lengthening of the course to four years is being debated.

The failure-rate in the first-year examinations is fairly high (of the order of 35 per cent. on average); but after its successful completion the chances of a full-time student completing his course are fairly good in most, though not in all, faculties. Many students take longer than the minimum period to complete their courses because they are required to repeat failed units or to repeat their year of study. Practical tests in science subjects and oral tests in language subjects are employed as part of the annual examinations. Supplementary examinations may be allowed students who fail one or more units at an annual examination; but the type and time of examination vary with faculty and university, and not all faculties grant supplementaries. The terms used in grading passes also vary, such expressions as high distinction, distinction, honours, merit, credit, etc., being employed. Melbourne is the only university to use the term 'honours' to grade its units as well as its degrees.

The units in professional courses are greater in number than in arts and science, and often part-units are introduced in higher years of study. Lesser units or part-units are also found in diploma courses. Altogether there are fourteen faculties among the Australian universities, including arts and science, the basic pass courses of which are of three years' duration. The length of professional courses for the bachelor degree varies from three to six years (*e.g.* agriculture, forestry, law, economics-commerce, education, music—mostly 4 years, although at Sydney economics takes 3 years and there is an alternative course of 3 years in agriculture; engineering, technology—4 or 5; architecture, veterinary science, dental science—5 (but at Sydney the dental course is 4 years); medicine—6). Some of the shorter courses require an additional year for honours, while professional courses usually begin with a pre-professional year in arts or science. In some faculties bachelor degrees are given only at the postgraduate level, for example, in divinity, and at Melbourne and Queensland in education. In divinity the major work may be undertaken at an affiliated theological college or even outside the university altogether (*see* section on 'Institutions of Higher Education other than Universities', *below*). The most common qualification in education is a diploma in education involving one year of professional training follow-

ing a first degree. There are, however, first degree courses of 4 years for the BEd degree at Sydney and Western Australia ; but at the latter university, by means of an integrated programme, a graduate may proceed to the BEd degree after completing the DipEd.

In some universities, where the content of honours courses during the second and third years in arts is more demanding than the content of pass courses, a student may succeed in completing a BA with honours in three years. But the trend of the times is towards a four-year honours course in science. In law and medicine, honours are usually decided on the quality of the passes in the course. In basic faculties students are allowed in some universities to take either a pass course or an honours course, although students mostly need to obtain permission to undertake honours and many avoid doing so because of the extension of time. Students who do not gain honours may be credited with a pass degree, while some students who take only pass courses produce not undistinguished records. The increased subsidization of students to-day, especially in science, is encouraging a rising percentage to proceed to honours, and particularly when an additional honours year involves not only extra study but also an honours thesis based on research.

Australian students not studying full-time are frequently called 'part-course' students. Such students are 'part-time' in that they are mostly in full-time employment. Generally, students of this type are not allowed to enrol in all the units of a given academic year. Often the maximum permitted is two per year. Part-time enrolments in the faculties of arts and commerce cause lectures to be repeated in the late afternoon. Thus the minimum period for graduation of part-course students is often five or six years. Some universities allow the enrolment of part-time students who attempt a full-time course, but this is discouraged (*see* section on 'Students', *below*).

Further, most of the undergraduate teaching universities make provision for 'part-time external' students in remote country districts. Many such students are teachers in rural schools. The universities of Queensland and New England have special external departments, and Queensland makes provision for external 'overseas' students, some of whom are enrolled under the Colombo Plan. The University of Sydney, however, does not permit external enrolment.

The minimum period of full-time study for an MA or an MSc degree is five years from matriculation or two years from completion of the ordinary bachelor degree. But, if a BA or BSc degree with honours is obtained in four years, a student can usually proceed with his research and present his thesis without further examination. Pass graduates must undertake additional study and undergo further examination, usually at honours standard, before being permitted to present their theses. The current trend is towards the

supervision of work for higher degrees, up to the level of PhD.

To-day an increasing number of candidates with good honours degrees in science are by-passing the master's degree and are proceeding direct to the degree of PhD, although some departments, particularly in the arts faculty, prefer students to take a master's degree first. The minimum period for the PhD degree is usually six years from matriculation, although seven or eight years of study and research are common among able students. The PhD is the highest award for supervised research work and the thesis usually needs to be acceptable for publication in whole or in part if its material has not already been published. Not all faculties or departments permit students to enter for the degree (*see* p. 17), which in most universities is controlled by a special committee. Students enrolled for the PhD degree may be required to take special units of study appropriate to their doctoral researches. Some universities allow part of the course to be carried out under appropriate supervision in associated research institutions, or permit a section of the work to be undertaken part-time. The higher doctorates (LittD, LL.D, DSc, etc.) are generally awarded to-day to graduates of high standing for published work or independent research which represents a substantial contribution to knowledge. Most universities will not accept submissions for the higher doctorates unless candidates are their own graduates or unless they are members of staff.

Diploma courses vary in length from one to three years ; some are awarded for subgraduate study and others for postgraduate study. Most diploma or certificate courses have a practical bearing and emphasize techniques and skills although they not infrequently include units which form part of degree courses. The practical work required is often carried out in affiliated or associated institutions such as hospitals, schools, teachers' colleges, technical colleges, conservatoriums, etc.

The 'practical' requirement in degree courses in science and applied science frequently includes 'field work' (*e.g.* in botany, zoology and geology), or experience on farms, in industry, or in engineering works. Sometimes practical experience of this type is 'sandwiched' into a course by using occasional terms or long vacations. More often, perhaps, the experience necessary for registration by professional bodies needs to be obtained after the completion of the degree course. At the University of New South Wales, students working for degrees in science, engineering, architecture and technology, not only take certain units in the humanities and social sciences, but they also spend a part of each year in industry.

**TEACHING STAFF.** The head of a full university department is a professor ; but in large departments there may be several professors, one acting as the administrative head. In a university research institute one of the professors may hold

an appointment as director. Departments of more junior standing are often administered by staff of sub-professorial rank. Professorial chairs are not often filled by internal promotion. It is less unusual for positions of lower rank to be filled by internal promotion from among lecturers with a good teaching or research record.

Below professorial rank there are various gradings. The most junior positions (tutors, teaching fellows, graduate assistants, etc.) are often limited in tenure, with a maximum of three years. Demonstrators in science departments, according to their qualifications and experience, may hold short-term or long-term appointments, and some of the more senior posts rank with lectureships. In departments of science and applied science there are positions of varying seniority including laboratory manager and technical assistant, which may be held by graduates or by the holders of technical qualifications.

Most university teaching staff hold the rank of lecturer or senior lecturer, and above these positions there is a grading of associate professor or reader. These positions are regarded as permanent, even though they may be subject to periodic review. In the Australian National University the permanent grades include: professor, reader, senior fellow and fellow. Short-term appointments are made to the positions of senior research fellow and research fellow.

The usual teaching methods include lecture, seminar and tutorial. In science departments these methods are supplemented by demonstration and laboratory class, and often by field work or work in a museum. The use of audio-visual aids, as well as mechanical aids to computation, is common to-day in most departments. Essays, assignments, dramatic work and methods of oral expression are frequent in arts departments, while Melbourne University proposes to supplement its class work by television broadcasts. Because research and publication provide avenues for promotion an attempt is made to limit the teaching load of more junior lecturing staff even though enrolments in first-year classes are heavy. Some staff members devote their time to research and to postgraduate students; but most lecturing staff, according to their teaching, tutorial and laboratory commitments, have about one-half of their time theoretically available for their own special pursuits. Heads of departments, however, need to give a considerable amount of time to administrative duties including attendance at faculty and other meetings.

Among the Australian universities academic salaries are reasonably comparable, and although some differences between them occur from time to time, the similarities are usually greater than the differences. For certain positions in medicine, law, engineering and science, the standard salaries may be supplemented, especially at the professorial level. But for most positions, professorial salaries are fixed while other salaries are graded. At the time of writing academic salaries throughout Australia are in course of upward adjustment,

and not inconsiderable increases are expected during the next twelve months, including a probable professorial salary of not less than £A4000. Meantime, the approximate standard rates being paid in May 1960 are: professor, £A3500 to £A3750, according to the institution concerned; associate-professor or reader, £A2600-£A2800; senior lecturer, £A2200-£A2500; lecturer, £A1500-£A2100.

Sabbatical or study leave is granted to teaching staff of the grade of lecturer or above, and a number of the universities provide grants of varying amount, in addition to salary, to assist staff members to travel overseas during their leave. Financial provision is also made by some universities to help staff travel to conferences in Australia. All the universities have superannuation schemes, mostly on the lines of the F.S.S.U., although some schemes are more generous than others. Sydney, for example, grants its professors a retiring allowance in addition to benefits under a scheme similar to F.S.S.U. Its lecturing staff on the other hand, mainly comes under the New South Wales state superannuation scheme. Among other amenities are staff houses or clubs at a number of the universities. Each university has its staff association, and there is a federal council of staff associations. Most universities own or rent houses for the benefit of newly arrived staff, and most of them also have schemes to assist the purchase of homes by staff members.

The usual Australian practice is to advertise vacant teaching posts. There is no statutory restriction as to nationality and vacancies are generally open to candidates of foreign nationality provided they have an adequate command of the English language. The advertisement of junior positions is frequently confined to Australia and New Zealand, but lectureships and more senior posts are very often advertised in the United Kingdom, and to a lesser extent in European countries and North America. With the most senior posts (e.g. professor or reader), even though positions are advertised, a university may retain the right to appoint by invitation after private enquiry.

In 1956 approximately 33 per cent. of Australian university staffs consisted of graduates recruited from the United Kingdom although about one-half of these consisted of Australians who had undertaken postgraduate study in Britain. A further 10 per cent. were recruited (in about equal proportions) from continental Europe, the United States and New Zealand. This 43 per cent. of staff members accounted for the majority of senior teaching and research positions.

Ten per cent. of staff held only Australian qualifications which had been awarded by Australian universities other than that in which they were teaching and a number of these held positions between the rank of senior lecturer and professor. The remaining 47 per cent. consisted of graduates whose degrees had been awarded by the Australian universities on whose staffs they were employed as tutors, demonstrators, teaching fellows, grad-

uate assistants, visiting specialist lecturers in law and medicine, and occasionally staff of the rank of lecturer.

The universities of the United Kingdom which assisted in educating the greatest number of Australian university teaching staff, and especially senior members, were Cambridge (25 per cent.), London (22 per cent.) and Oxford (16 per cent.) in that order. The English provincial universities accounted for 12 per cent.; Scotland 7 per cent. and Wales, together with Ireland, 3 per cent. The balance consisted mostly of Australian graduates who had gained fellowships in the United Kingdom (especially medical fellowships of the royal colleges).

**STUDENTS.** Including the Australian National University (which was reorganized in 1960), 41,865 students were enrolled in the Australian universities during 1958. Of these 25,535 (61 per cent.) were full-time, 11,765 (28 per cent.) part-time and 4,565 (11 per cent.) external. The number of women was 9,223 (22 per cent.). To the 41,865 students should be added 742 who were preparing theses for higher degrees but were not required in 1958 to register and pay fees. Among full-time students included in the total were 95 graduates who were taking advanced courses at the Australian National University or were carrying out research there.

Part-time students usually study in the evening. As mentioned earlier, enrolments of this type are often called 'part-course' because students not enrolled full-time are generally limited in the number of units they may take in each academic year. Sometimes tutorial classes for external students are arranged in country districts while lecture notes, reference lists and not infrequently library books are sent to these students, many of whom are teachers in remote country districts.

Although there are residential colleges and halls at most of the universities, Australian students mainly live at home. The reason is that the majority of the universities are situated in areas of greatest population density. The approximate proportions are: living in college or hall, 10 per cent.; in lodgings, 20 per cent.; at home, 70 per cent. At the University of New England almost all internal students are in residence. The Australian National University is largely a residential institution at the postgraduate level. University House provides accommodation for certain staff of the institute of advanced studies as well as for postgraduate students without children. Halls of residence are being built for undergraduates of the school of general studies although those whose homes are in the vicinity of the university live out. For staff members and senior students with

sporting, social, cultural, religious and political clubs and societies. At the University of Western Australia, student amenities as well as clubs and societies are under the control of a body called the guild of undergraduates, while at the Australian National University the social life of the institution is centred in University House, a residential college. At most of the universities there is an officers' training corps or university regiment and at a number of the universities there is also an air training squadron. During the short vacations inter-university cultural and athletic contests are held. The federal body dealing with student affairs is the National Union of Australian University Students.

Various welfare services exist for the benefit of students. A number of the universities have health services, and students to-day are required to undergo a compulsory X-ray examination of the chest. There are also student advisers, counsellors or guidance officers. At some of the universities there is a warden of students, or a similar officer of senior standing, who is responsible for the general administration of student buildings and affairs, and for the co-ordination of student activities. Most universities have an appointments board or an appointments officer and, since the Murray committee made its recommendations, various universities have appointed special research officers to examine the problems of university education. To-day many students are employed during the long vacation. Some of the universities have housing officers; otherwise information is obtainable from the central administrations or the student bodies. In most universities the student bodies also gather information about lodgings or hostel accommodation. Most student bodies publish their own newspapers, and a number of them also produce orientation booklets at the commencement of each year for the benefit of new students. To help such students, student organizations and teaching staffs co-operate during an 'orientation week' before lectures begin. The general fee for membership of student bodies, including the use of union facilities, varies from a nominal amount up to about £A15 p.a. according to the amenities provided. Additional charges are made for individual membership of student clubs and societies.

The fees charged by residential colleges and halls are separate from ordinary university fees and the fees of the student bodies which are usually collected at enrolment time. College fees include residence during term as well as tutorial assistance. Additional costs are involved when a student remains in residence during vacation. The charges made by university hostels, halls of residence or colleges vary between about £A150 and £A300 a year, and taking account of university and other fees, most students need about £A600 to carry them through a full academic year. The normal cost of reasonable lodgings varies from £A5 to £A7 per week.

Most university students are Australian born; but since the war increasing numbers of students



from migrant families have been enrolled. Many of these have come not only from the United Kingdom, but also from continental Europe. In addition, 2200 students from Malaya-Singapore, Hong Kong, India, Pakistan, Ceylon and Indonesia, as well as from other countries in south-east Asia and the Pacific, are now enrolled in the universities. (The total figure for all types of educational institution from primary school to university is approximately 7000.)

In recent years approximately 50 per cent. of all students enrolled in the Australian universities have been financially assisted in one form or another. Many scholarships to-day are provided by industry as well as by government. Of full-time students the proportion holding scholarships and other forms of financial assistance varies, according to the university or faculty, from 60 to 80 per cent. Further, four-fifths of the total assistance available in the form of scholarships, bursaries, free places and other awards is provided by commonwealth and state governments, of which approximately one-half (or two-fifths of total assistance) is represented by scholarships under the Commonwealth Scholarship Scheme. This scheme was established by the commonwealth government in 1951. Under it 3000 new scholarships are provided annually for open competition among intending students who wish to undertake courses in the Australian universities or in other approved institutions of higher education. The scholarships are awarded on merit. Applicants and their parents must be resident in Australia at the time of the award of a scholarship and must intend to remain permanently in Australia. The scholarships just mentioned are for undergraduate study. There are also commonwealth scholarships for postgraduate study varying in value from £A600 to £A1250 p.a. A residential condition attaches to these awards as well as to those at the undergraduate level. The maximum annual value of an undergraduate award to a full-time student, including (i) fees, etc., and (ii) living allowance (the latter being subject to a means test) at a high-cost university, such as Sydney, and in a high-cost course such as medicine is:—*living at home*: fees, etc., £A120 plus living allowance £A221, total £A341; *living away from home*: fees, etc., £A120 plus living allowance £A338, total £A458. Many students, because of the means of their parents, do not qualify for the living allowance.

There are relatively few awards open to overseas students although considerable numbers of Asian students have their higher education paid for by the Commonwealth under the Colombo Plan. Other students are assisted under Unesco schemes or by scholarships awarded to them in their own countries. To-day, such bodies as the C.S.I.R.O., as well as banks and industrial organizations, provide scholarships for undergraduate and, especially, for postgraduate study, but few such awards are open to overseas students.

Estimates of future university enrolments made in 1959 indicated a rise from approximately 37,000

students in 1957, at the time of the Murray report, to a total of approximately 90,000 by 1965. However, as some universities at the time of writing are finding it necessary to restrict their student numbers and others are re-examining their matriculation conditions, actual enrolments by 1965 may not prove so high as the estimates.

**ACADEMIC YEAR.** The Australian academic year accords with the seasons of the southern hemisphere. On average the teaching year of three terms begins about mid-March following the enrolment of students and, in a number of the universities, an orientation week. The first term ends about the third or fourth week in May. The second term begins during the second or third week of June and continues until the second or third week of August. The third term begins during the first or second week of September and continues until the end of October or early November, after which the examinations, occupying a period of three weeks to a month, are held. In most universities the work of the year finishes about mid-December.

**VACATION COURSES.** Regular summer sessions of the American type, with university credit for work successfully performed, are not held in Australia but 'summer schools' for extra-mural students are held; in most states these are not under direct university auspices even though university staff assist. Practical field work, and work in industry, hospitals or schools, required as part of degree or diploma courses, is often done during long vacations. In some cases seminars for students who study externally are arranged in the vacations. During vacations and occasionally during term, individual university departments arrange conferences or run in-service courses for the benefit of teachers, business and professional groups, farmers, etc. Sometimes this work is linked with adult education activity (*see below*).

**EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION.** University extension lectures began at Sydney University in 1886 and at Melbourne in 1891. In 1913 workers' educational associations were formed in most states. Since then changes have taken place in the organization of the work which is now mostly known as adult education. However, where the W.E.A. continues, it is assisted by university staff in the conduct of tutorial classes, a university officer usually acting as director. The Sydney organization includes a joint committee of W.E.A. and university, the committee appointing the tutors and supervising their work. In Victoria adult education is under a statutory council set up by the state government, while the University of Melbourne has a separate extension board. In Tasmania there is a board of adult education with university representation, and a body of the same name exists in Queensland. Adult education in South Australia is shared between the University of Adelaide department of adult education, the W.E.A., which works in close collaboration with the university department, and

the state education department. In Western Australia, where adult education is an extra-mural function of the university, there is an adult education board responsible to the university senate. The University of New England also takes responsibility for adult education in its area, while the University of New South Wales conducts extension courses in scientific and technological subjects. At the Australian National University there is a department of adult education within the school of general studies. In states which have adult education boards, whether under direct university auspices or not, the responsible officer is usually called the director of adult education. For many of their courses the boards depend on the co-operation of university teachers, and during the summer schools held in January, professors and senior lecturers are among the leaders. The boards are not only responsible for classes and study groups in city and country, but they also sponsor drama, music, ballet, art, etc., and arrange for groups of performers as well as tutors and lecturers to tour country districts.

Although not specifically regarded as part of adult education or university extension, the comprehensive system of correspondence education developed for external university students (and even for overseas students) by the University of Queensland, supplemented by classes in country districts, represents a substantial extra-mural function. A somewhat similar service is conducted by New England, while some other universities have less ambitious schemes.

**INTER-UNIVERSITY ORGANIZATIONS.** The present Australian Vice-Chancellors' Committee developed from a standing advisory committee created to deal with matters of common interest following a university conference in Sydney in 1920. Although it is still in the main a consultative body, the committee now performs many important functions where general university policy and the national interest are involved. This is especially true since the report of the Murray committee and the increased interest of the Commonwealth in the welfare of the universities, including the establishment of the Australian Universities Commission, of which Sir Leslie Martin is the chairman. The secretary of the commission is Mr. D. St. A. Dexter and its address is Commonwealth Offices, Treasury Place, Melbourne, C.2, Victoria. The Vice-Chancellors' Committee keeps in touch not only with the Australian Universities Commission but also with the commonwealth government and its departments, including the Commonwealth Office of Education. It meets at least twice a year, usually in March and October, and its present chairman is Sir George Paton, vice-chancellor of the University of Melbourne. The secretary of the committee is Brigadier R. G. H. Irving, CBE, University of Melbourne, Parkville, N.2, Victoria. Under the committee's auspices conferences of university registrars are held (usually biennially).

The staff associations of the universities have

combined to establish a Federal Council of University Staff Associations, the president of which is Professor R. H. Thorp, department of pharmacology, University of Sydney. The hon. secretary/treasurer is Mr. E. L. Wheelwright, department of economics, University of Sydney. The council publishes a bulletin entitled *Vestes*.

The National Union of Australian University Students dates from 1937, when, during an Australasian university conference at Adelaide, it was decided by the representatives of the student bodies to form a union on the lines of the union in England. The N.U.A.U.S. has its own council to which the student bodies send their delegates. Each year the N.U.A.U.S. holds a congress in January. Office-bearers, at the time of writing, are: Mr. B. J. Moylan, c/o University of Queensland Union, and Mr. A. Nelmes, Newcastle University College Students' Association (secretary-treasurer).

To administer the scheme by which students granted reservation for university study during the war were financially assisted, the commonwealth government established a Universities Commission in 1942. However, after the passing of the Commonwealth Education Act in 1945, which created the Commonwealth Office of Education, the Universities Commission became responsible for the Commonwealth Scholarship Scheme. In 1959, by an amendment of the Education Act, its name was changed to the Commonwealth Scholarships Board to prevent confusion with the newly created Australian Universities Commission. The director of the Commonwealth Office of Education is Mr. W. J. Weeden, who is also chairman of the Scholarships Board. The address of the Commonwealth Office of Education and of the Scholarships Board (the secretariat of which is provided by the C.O.E.) is 50 Miller Street, North Sydney, or Post Office Box 189, North Sydney, New South Wales. There are branch offices of the C.O.E. and of the Commonwealth Scholarships Board in each state except Tasmania. As a result of the legislative changes in 1959, the Commonwealth Office of Education and the Australian Universities Commission function as separate entities under the prime minister's department. Before the establishment of the commission, the Commonwealth Office of Education was responsible for commonwealth grants to the universities under the States Grants (Universities) Act.

One of the continuing activities of the Commonwealth Office of Education is responsibility for the university training of students from south and south-east Asia. The C.O.E. is specially charged with the responsibility for Colombo Plan students who are coming to Australia under the Commonwealth scheme of co-operation in education, which resulted from the conference at Oxford in 1959.

**THE UNIVERSITIES TO-DAY.** For Australian universities there has been no settling-down period since the war. By 1960 the universities of Sydney

and Melbourne had passed their optimum in enrolments. Further, war-time research deficiencies coupled with a rapid population growth, new national and international responsibilities, and an accelerated industrialization, brought into being the Australian National University, and especially its institute of advanced studies devoted to research in the social, medical and physical sciences, as well as the University of New South Wales in Sydney, and more recently the Monash University in Melbourne. The older universities, faced with increasing student numbers and greater calls on their staffs and services, have been confronted with a succession of crises, which finally led to the appointment of the Murray Committee on Australian Universities in 1957 and to the Australian Universities Commission in 1959.

By the time the Murray committee began its task, New England University College had become a university, charged, among other things, with the responsibility of providing for external students in the state of New South Wales. The New South Wales University of Technology (now the University of New South Wales) was beginning to sponsor new university colleges, while in Victoria the need to establish a second university (now founded as the Monash University) was being debated. In South Australia, Adelaide University had come to an arrangement with the near-by School of Mines (now the Institute of Technology) to enable degrees in technology to be awarded, and in Western Australia the university was starting a medical school.

The Committee on Australian Universities was asked to enquire into (1) the role of the university in the Australian community; (2) the extension and co-ordination of university facilities; (3) technological education at the university level; and (4) the financial needs of the universities and the means to meet them. The committee's report was published in September 1957, and after an early promise by the prime minister, Mr. R. G. Menzies, to act on its recommendations, the committee's major financial proposals were placed before the commonwealth parliament in May 1958 and were adopted. Further, the Victorian government, following receipt of a special report from the Murray committee, established the Monash University and took preliminary steps towards its development. Meantime, the commonwealth government considered the Murray proposals to create a grants committee as an informal advisory body, and decided to vary them. Thus in 1959 it created the Australian Universities Commission as a permanent statutory body to review university conditions every three years, to advise on university development, and to provide a liaison between Commonwealth and states on university matters.

The post-war expansion of Australian industry, nuclear research, defence projects, automation, as well as power and water schemes, have been taxing the capacities of the universities to provide specialists and professional men with a well-rounded education. More schools, especially secondary schools, and better-educated teachers

are needed in increasing numbers. In this regard, the importance of faculties of arts in the modern world was stressed by the Murray committee. Yet despite present indications of better means to university education there is little evidence of an easing of university difficulties and responsibilities. In a political, social and educational sense, Australia is passing through a period of change probably greater than at any previous time in its history.

Since the commonwealth government accepted the Murray committee's recommendations, every university has increased its staff, salaries have been raised, new buildings have been erected, started or planned and urgently needed equipment has been supplied.

Typical of recent developments is the installation of a computer 'Silliac' in the physics department at Sydney and the construction of new libraries at Sydney and Melbourne. Another development is that most of the universities have established committees to examine causes of university failure with a view to improving teaching and, if possible, the success rate of students. A conference took place on this problem at Sydney during November 1958. New courses are being established and older courses re-modelled. In October 1958 the University of New South Wales was empowered to award degrees and undertake research in medicine as well as in humane studies. A faculty of arts has now been developed in the university based on the earlier established departments of humanities and social sciences; and courses in arts, leading to the BA degree, were first offered in 1960. In medicine five chairs have been filled and the first year of a medical course will be offered in 1961. Monash University has been given a site at Clayton near Melbourne, and the faculties ultimately to be established include arts, commerce, education, science, engineering, applied science and medicine. It is expected that by 1961 undergraduates will be enrolled for various courses in arts, science and engineering and that graduates will be enrolled for the degrees of MSc and PhD in the faculty of science.

In 1960 Canberra University College lost its identity as a separate institution but linked academically with Melbourne, and became the school of general studies of the Australian National University. Again, in 1960, the University of Queensland established a university centre at Townsville. In Tasmania a faculty of agriculture is being developed, and with the completion of new buildings for chemistry and engineering in 1960, the earlier relationship with the Hobart Technical College was discontinued. Also in 1960, the Australian Universities Commission, now consisting of five members (two academic and two others besides the chairman), completed its first survey of university need for the triennium 1961-63.

INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES. It has been mentioned already that there are Australian institutions of

higher education which are not regarded as university institutions (e.g. technical colleges, schools of mines, agricultural colleges, forestry schools and teachers' colleges) although a number of them are affiliated to or are associated with universities. In Australia there are no private or denominational universities, and, with one exception (*see below*), only the universities have the right to award the degrees of bachelor, master and doctor. Non-university institutions award certificates, diplomas or associateships; but some higher level institutions award fellowships and similar qualifications. Entrance to most diploma courses is at a lower standard than that of matriculation and is often at the level of the junior or intermediate certificate examinations (*see Appendix II*). However, there are varying admission standards according to the types of course students elect to take. Some courses (e.g. architecture) normally require university matriculation or its equivalent, while holders of certain college diplomas may be granted university matriculation, or in addition they may receive partial credit towards university degrees.

*Agricultural Colleges.* The colleges of agriculture such as Gatton (Queensland), Hawkesbury and Wagga (N.S.W.), Longerenong and Dookie (Victoria), Roseworthy (South Australia) and Muresk (Western Australia) provide courses up to four years in length in the different aspects of agriculture. Their admission standards are generally below that of matriculation although most of them are associated with the universities in the practical or the experimental aspects of agriculture. A number of the agricultural colleges assist in the training of teachers for rural communities.

*Conservatoriums of Music.* There are conservatoriums at the universities of Adelaide and Melbourne and degrees in music as well as diplomas are awarded. In these institutions the standard of admission to major courses is at the level of matriculation, but at Adelaide many conservatorium students, studying to become performers or teachers of music, are admitted below the matriculation level. In New South Wales and Queensland there are state conservatoriums separate from the universities. These admit students below the normal university entrance standard, although applicants need to possess practical qualifications in music.

*Forestry Schools.* The best known school of forestry is the Australian Forestry School in Canberra and degrees in forestry are awarded to students who spend part of their time in a university science faculty and part of it at the Australian Forestry School. The University of Melbourne also recognizes the Creswick Forestry School in Victoria for the same purpose.

*Service and Administrative Colleges.* At the more advanced level students of the royal naval, military and air force colleges require not less than the equivalent of matriculation to be admitted, while certain college courses in science and mathematics are accepted by the universities as a part

qualification towards degrees. The Australian School of Pacific Administration (Sydney), under the commonwealth department of territories, trains students in the various aspects of service and administration in dependent areas.

*Teachers' Colleges.* The standard of admission to the teachers' colleges varies somewhat from state to state but most students are recruited at the level of the school leaving certificate (*see Appendix II*) and many of these also hold university matriculation. The standard course for primary teachers is of two years, but matriculated students, preparing for secondary teaching, who attend the universities, may spend three, four or five years as 'college' students. There are shorter courses for certain categories of student, and not infrequently the colleges assist in the training of graduates for the DipEd awarded by the universities. To-day there is an increasing tendency for the work of the colleges to be integrated with that of the universities. This is being done by co-operative association or by affiliation, and in Tasmania by incorporation in the university framework.

*Technical Institutions.* Admission to diploma and similar courses in technical colleges is usually at the level of the junior or intermediate examinations (*see Appendix II*), although some courses (e.g. architecture) require the leaving certificate, matriculation or the equivalent of these qualifications. The more advanced teaching in the colleges and schools of mines, especially in the physical sciences and mathematics, is often at a standard which permits candidates to enter for university examinations, and occasionally passes in the examinations of the institutions mentioned provide a partial exemption from university degree requirements. Although many diploma students are enrolled full-time, the technical colleges admit considerable numbers of part-time students. Technical diploma courses in science and engineering, which are of three to five years' duration, have a more practical bearing than degree courses. In 1956 the University of Adelaide joined with the South Australian School of Mines (now the South Australian Institute of Technology) to enable degrees in technology to be awarded. In Western Australia the Kalgoorlie School of Mines is associated with the university faculty of engineering in the award of degrees in mining engineering.

*Theological Colleges.* The teaching of theology is mainly done in denominational colleges or seminaries, independent of the universities, although some of the residential colleges affiliated to the universities and administered by the churches assist in the work. The standard of admission approximates to the level of the leaving certificate and it may be at matriculation level. Teaching in some of the colleges is at a standard comparable with that of university undergraduate courses. Among the theological colleges is the Australian College of Theology and the Melbourne College of Divinity. The latter institution awards the degrees of BD and DD.

*Research and Professional Institutions.* The

best known independent medical research foundation in Australia is the Walter and Eliza Hall Research Institute in Melbourne which is linked with the Royal Melbourne Hospital as well as with the University of Melbourne. However, the largest single research organization in the country is the government-controlled Commonwealth Scientific and Industrial Research Organization which has close affiliations with the universities, including C.S.I.R.O. laboratories on most university sites. At the postgraduate level there are royal Australasian colleges of physicians and surgeons. There are also professional associations of lawyers, engineers, scientists and teachers (e.g. Australian Institution of Engineers, the Australian Academy of Science and the Australian College of Education). Some of these admit to membership as a mark of professional recognition as well as to fellowship as an award of special distinction.

FURTHER INFORMATION (*see also* Appendix V and the 'Publications' section in each university entry below). Reference works on Australian universities:

*A Brief Guide to the Australian Universities.* (Melbourne University Press for Australian Council for Educational Research. Third edition, 1955.) Provides a short description of the universities, their courses, admission standards and costs, although the latter have risen considerably since the present edition of the guide was published.

*Yearbook of the Commonwealth of Australia*, No. 45, Chapter XV, Section 8, Universities. (Govt. Printer, Canberra, for Commonwealth Bureau of Census and Statistics, 1959.) Reviews recent history of the Australian universities and provides statistical information for the year 1957. The history, growth and development of the Australian universities may be traced by referring to earlier editions of the *Yearbook*.

*Student Selection and Academic Success in Australian Universities.* C. Sanders. (Govt. Printer, Sydney, for Commonwealth Office of Education, 1948.) An examination of admission standards and selection problems in the Australian universities. Also *University Selection: its theory, history and psychology* (in the Australian Journal of Education, Vol. I, No. 3, Nov. 1957).

*Review of Education in Australia 1948-1954.* R. M. McDonnell, W. C. Radford and P. M. Staurenghi. (Brown, Prior and Anderson, Melbourne, for Australian Council for Educational Research, 1956.) Two sections of the book review the work of the Commonwealth Office of Education, the original Universities Commission and the Australian universities during the period named.

*A Crisis in the Finances and Development of the Australian Universities.* (Melbourne University Press for the Australian Vice-Chancellors' Committee, 1951.) A review of the financial

problems of the universities in the immediate post-war period.

*Submission by the Australian Vice-Chancellors' Committee to the Committee on Australian Universities.* (Melbourne University Press for the Australian Vice-Chancellors' Committee, July 1957.) Examines the role, needs and functions of the university in the Australian community.

*Adult Education in Australia.* Fred Alexander. (Cheshire, Melbourne, 1959.) A short critical account of past and present trends in Australian adult education.

*The Humanities in Australia: A Survey with Special Reference to the Universities.* Edited by A. Grenfell Price. (Angus and Robertson, Sydney, for the Australian Humanities Research Council, 1959.) Reviews from the viewpoint of the humanities the past and present history of the universities.

*If the Given Fits.* A. P. Rowe. (Melbourne University Press, 1960.) A frank criticism of Australian university organization as well as Australian attitudes to higher education by a former vice-chancellor.

Reports and statistical information:

*Report of the Committee on Australian Universities.* (Commonwealth Govt. Printer, Canberra, Sept. 1957.) Report of the committee, under the chairmanship of Sir Keith Murray, on the function of university education and the post-war problems of the Australian universities.

*Report of the Committee Appointed to Survey Secondary Education in New South Wales.* (Govt. Printer, Sydney, 1958.)

*Adult Education in Australia.* Bulletin No. 20. (Commonwealth Office of Education, Sydney, 1958.)

*Agricultural Education in Australia.* Bulletin No. 23. (Commonwealth Office of Education, Sydney, 1959.)

[*Australian*] *University Statistics, 1959. Part I, Staff, Students and Degrees Conferred; Part II Libraries and Finance.* (Bureau of Census and Statistics, Canberra, 1960.)

*Education in Australia.* Bulletin No. 20. (Commonwealth Office of Education, Sydney, 1959.)

*External Tuition by Australian Universities.* Bulletin No. 21. (Commonwealth Office of Education, Sydney, 1957.)

*Degrees and Diplomas Awarded by Australian Universities.* Information Statement No. 11. (Commonwealth Office of Education, Sydney, 1958.)

*Fees of Universities and Residential Colleges in Australia.* (Commonwealth Office of Education, Sydney, 1960.)

*Health Services in Schools and Universities.* Bulletin No. 12. (Commonwealth Office of Education, Sydney, 1956.)

*Higher Education in Australia: A Directory of Courses.* (Commonwealth Office of Education, Sydney, 1959.)

*Matriculation Requirements of Australian Universities.* Bulletin No. 33. (Commonwealth Office of Education, Sydney, 1959.)

*Secondary School Examinations in Australia.* Bulletin No. 25. (Commonwealth Office of Education, Sydney, 1958.)

*Technical Education in Australia.* Bulletin No. 31. (Commonwealth Office of Education, Sydney, 1958.)

## DIRECTORY TO SUBJECTS OF STUDY

**HIGHER DEGREES.** The PhD is awarded by the universities as follows. *Adelaide*: in agriculture, architecture, arts, economics, engineering, medicine, science. *Australian National University*: in each of the research schools of the institute of advanced studies. *Melbourne*: in all faculties except music. *Monash*: in science. *New England*: in all faculties. *New South Wales*: in architecture, commerce, engineering, science, technology. *Queensland*: in all faculties. *Sydney*: in agriculture, architecture, arts, dental science, economics, engineering, science, veterinary science. *Tasmania*: in arts, engineering, science. *Western Australia*: in arts, dental science, education, engineering, science.

**FIRST DEGREE COURSES, ETC.** The table on pp. 18-19 shows the main courses and subjects of study in the Australian universities. The symbol ✓ is used to indicate *major* courses, i.e. those studied for two or three years for a first degree. The symbol √ indicates *minor* courses forming part of the course for a first degree. Diploma courses are not included in the table.

Newcastle University College (see p. 64) prepares students for the degree and diploma courses of the University of New South Wales. Instruction in certain courses towards degrees and diplomas of the University of N.S.W. is provided at Wollongong, Broken Hill and Orange in New South Wales.

**DIPLOMA AND CERTIFICATE COURSES.** New England and Western Australia do not award subgraduate diplomas although the latter co-operates in the award of several diplomas by outside bodies. Other universities award diplomas at subgraduate and postgraduate levels and some also co-operate in the award of diplomas by outside bodies. The two courses in which diplomas are mainly postgraduate are education and medicine. The University of New South Wales offers postgraduate diplomas in certain technological fields as well as in librarianship.

**Education.** Awarded by Adelaide, Melbourne, New England, New South Wales (Newcastle University College), Queensland, Sydney, Tasmania and Western Australia. Subgraduate awards are also made by Adelaide, Queensland and Tasmania.

**Medicine.** Melbourne and Sydney award diplomas in anaesthesia, diagnostic radiology, gynaecology-obstetrics, laryngology, ophthalmology (also Queensland), psychological medicine (also Queensland), public health, therapeutic radiology. Sydney also awards diplomas in clinical pathology, dermatological medicine and tropical medicine and hygiene.

Other diploma or certificate courses:

*Accountancy*: Queensland. *Agricultural Chemistry*: Sydney. *Agricultural Economics*: Sydney. *Agricultural Entomology*: Sydney. *Agricultural Genetics*: Sydney. *Agricultural Microbiology*: Sydney. *Agricultural Science*: Sydney. *Agriculture*: Melbourne. *Animal Husbandry*: Sydney. *Anthropology*: Sydney. *Architecture*: Melbourne, Queensland. *Arts and Education* (AUA): Adelaide. *Building*: New South Wales. *Clinical Psychology*: Western Australia. *Commerce*: Queensland. *Dairy Husbandry*: Sydney. *Dietetics*: Melbourne. *Divinity*: Queensland. *Educational Administration*: New England. *Educational Psychology*: Queensland, Western Australia. *Food Technology*: New South Wales.\* *Highway Engineering*: New South Wales. *Journalism*: Melbourne, Queensland. *Librarianship*: New South Wales.\* *Manual Arts*: New South Wales. *Mechanical Engineering*: New South Wales. *Metalliferous Mining Engineering*: New South Wales. *Minerals Technology*: New South Wales. *Music*: Adelaide, Melbourne, Queensland. *Numerical Analysis and Automatic Computing*: Sydney. *Occupational Therapy*: Queensland. *Optometry*: Adelaide\*, Melbourne\*, Western Australia.\* *Plant Pathology*: Sydney. *Pharmacy*: Adelaide, Melbourne\*, Sydney. *Physical Education*: Adelaide, Melbourne, Queensland, Tasmania, Western Australia.\* *Physiotherapy*: Adelaide, Melbourne\*, Queensland, Western Australia.\* *Psychology*: Sydney. *Public Administration*: Adelaide, Melbourne, Queensland, Tasmania. *Public Health Dentistry*: Sydney. *Quantity Surveying*: New South Wales.\* *Social Studies or Social Work*: Adelaide, Melbourne, New South Wales, Queensland, Sydney. *Sugar Science*: Queensland. *Sugar Technology*: Queensland. *Teaching and Training of Subnormal Children*: Queensland. *Town and Country Planning*: Melbourne, Sydney. *Wool Technology*: New South Wales.

## STATISTICS

[Sources: Bureau of Census and Statistics, Canberra and Commonwealth Office of Education]

**TOTAL STUDENT ENROLMENT** in 1958 including the Australian National University (female enrol-

ments in brackets) was as follows. For higher degrees, 1672 (192).§ For bachelor's degrees:

[continued on p. 20]

Awarded by outside bodies.

§ In addition to the 1672 there were 742 who were preparing theses for higher degrees but were not required to enrol.

# AUSTRALIAN DIRECTORY TO SUBJECTS OF

*Note.*—Each of the nine universities named below provides major, first degree, courses in: botany (or physics, psychology, and zoology (or biology). Each university has *either* major *or* minor first degree and statistics.

<i>Degree Subject or Course</i> [For an explanation of the symbols used, see p. 17]	Adelaide	Australian National	Melbourne	New England	New South Wales	Queensland	Sydney	Tasmania	Western Australia
Accountancy	✓	✓	✓		✓	✓	✓	✓	
Agriculture or Rural Science <sup>1</sup> :	✓		✓	✓		✓	✓		✓
Agric. Chemistry	✓					✓	✓		
Agric. Economics	✓			✓		✓	✓		✓
Anatomy	✓		✓			✓	✓		✓
Anthropology							✓		✓
Applied Science						✓		✓	
Archaeology							✓		
Architecture	✓		✓		✓	✓	✓		
Bacteriology or Microbiology	✓		✓			✓	✓		✓
Biochemistry	✓		✓		✓	✓	✓		✓
Building or Building Science	✓		✓		✓				
Chemical Technology					✓				
Chemistry (Applied)					✓	✓		✓	
Child Health	✓								✓
Chinese		✓					✓		
Commerce			✓		✓	✓		✓	
Criminology			✓						
Dental Science or Surgery	✓		✓			✓	✓		✓
Divinity						✓	✓		
Education <sup>2</sup>	✓		✓			✓	✓	✓	✓
Engineering:									
Aeronautical					✓		✓		
Agricultural			✓						
Chemical	✓		✓		✓	✓	✓	✓	
Civil, Electr., Mech.	✓		✓		✓	✓	✓	✓	✓
Industrial			✓		✓				
Metallurgical	✓		✓			✓			
Mining	✓		✓		✓	✓	✓		✓
Fine Arts			✓						
Forestry <sup>3</sup>	✓		✓		✓	✓	✓	✓	✓

<sup>1</sup> Various courses are taught at the universities under the heading of agriculture (see also Genetics). Rural science is taught at New England.

<sup>2</sup> Degree courses in education are either postgraduate or undergraduate.

<sup>3</sup> Taught in association with independent forestry schools, especially the Australian Forestry School, Canberra.

# STUDY (see p. 17)—TABLE OF FIRST DEGREE COURSES

biology), chemistry, classics, economics, English, French, geology, history, mathematics, philosophy, courses in Australian literature (minor part of English course), education, geography, German,

<i>Degree Subject or Course</i> [For an explanation of the symbols used, see p. 17]	Adelaide	Australian National	Melbourne	New England	New South Wales	Queensland	Sydney	Tasmania	Western Australia
Fuel Technology					✓				
General Science					✓		✓		
Genetics <sup>4</sup>	✓			✓		✓			✓
History and Methods of Science			✓		✓	✓			
Humanities and Social Sciences					✓				
Indonesian		✓	✓				✓		
Industrial Arts					✓				
Industrial Relations		✓	✓		✓		✓		✓
Italian			✓				✓		✓
Japanese		✓					✓		
Law	✓	✓	✓			✓	✓	✓	✓
Malayan Studies							✓		
Mathematical Physics	✓								
Medicine—Surgery	✓		✓		✓	✓	✓		✓
Metallurgy <sup>5</sup>			✓		✓	✓			✓
Music <sup>6</sup>	✓		✓			✓	✓		✓
Naval Architecture					✓				
Pharmacology	✓		✓				✓		
Pharmacy						✓	✓		
Physical Education						✓	✓		✓
Physiology	✓		✓			✓	✓		✓
Political Science or Government	✓	✓	✓			✓	✓	✓	✓
Russian		✓	✓						
Semitic Studies			✓				✓		
Social Studies or Social Work						✓			
Sociology					✓				
Surveying	✓		✓		✓	✓		✓	✓
Technology (BTech) <sup>7</sup>	✓								
Textile Technology					✓				
Veterinary Science			✓			✓	✓		
Wool Technology					✓				

<sup>4</sup> Minor courses are usually provided in agriculture.

<sup>5</sup> Metallurgy often forms part of the course in mechanical engineering (see also Engineering, Metallurgical).

<sup>6</sup> At Tasmania appropriate passes in an outside examination enable candidates to be credited with a unit of music towards an arts degree.

<sup>7</sup> Adelaide awards the degree of BTech in: building technology, civil engineering, electrical engineering, electronic engineering, mechanical engineering, chemical technology, primary metallurgy, secondary metallurgy, surveying.



agriculture, 821 (86); architecture, 606 (65); arts, 9502 (4066); commerce-economics, 3583 (268); dentistry, 658 (66); divinity, 14 (1); education, 639 (141); engineering, 3064 (5); law, 1860 (203); medicine, 4037 (601); music, 152 (106); science, 4260 (859); technology, 384 (0); veterinary science, 340 (26). Diplomas, postgraduate, 846 (275).<sup>\*</sup> Diplomas, sub-graduate, 6168 (1209).<sup>§</sup> Certificates: 1427 (325). Miscellaneous: 2431 (806). Total number of students, 42,464 (9390) less correction for double enrolments - 599 (- 168), was 41,865 (men 36,643; women 9222); this total of 41,865 included 11,765 part-course or part-time students and 4565 external students.

**NEW ADMISSIONS.** The total enrolment of new students in 1958 was 12,341 (men 9105; women 3236).

**OVERSEAS STUDENTS.** The total number of overseas students enrolled during 1959 in Australian universities was 2352 of whom 448 were enrolled under the Colombo Plan. The countries from which the students came included (Colombo Plan students in brackets): Borneo/Sarawak/Brunei, 85 (42); Burma, 34 (22); Cambodia, 1 (1); Ceylon, 23 (5); China/Hong Kong, 338;

Europe (U.K., 16), 25; India, 42 (9); Indonesia, 219 (159); Japan, 2; Korea, 2; Malaya, 777 (65);<sup>\*</sup> Middle East, 4; New Zealand, 119; Pacific (Fiji, Samoa, etc.), 83; Pakistan, 25 (9); Papua New Guinea, 11; Philippines, 24 (21); Singapore, 405 (54); Thailand, 53 (31); U.S.A., 43; Vietnam, 31 (30); others, 6. Total: 2352, including Colombo Plan, 448.

**DEGREES AWARDED (1958).** *Agriculture*: BAgSc, BScAgr or BAgr, 101; higher degrees, 17. *Architecture*: BArch, 65; higher degrees, 1. *Arts*: BA, 1009; higher degrees, 65. *Commerce or Economics*: BCom or BEc, 233; higher degrees, 6. *Dentistry*: BDS or BDS, 119; higher degrees, 9. *Divinity*: BD, 1. *Education*: BEd, 116; higher degrees, 9. *Engineering*: BCE or BE(Civil), 193; BEE, BE(Elect), BMechE or BE(Mech), 153; BME or BE(Mining), 15; BMetE, BE(Met), BChemE or BE(Chem), 31; BS(Surv), 4; BE(AeroEng), 10; BAgE, 3; higher degrees, 21. *Law*: LLB, 203. *Medicine*: MB BS, 422; higher degrees, 11. *Music*: MusBac, 19; higher degrees, 1. *Science*: BSc, 578; BScFor, 23; BAppdSc, 5; BSc(Med), 6; higher degrees, 161. *Technology*: BTech, 39. *Veterinary Science*: BVSc, 45; higher degrees, 1. Total: 3695 (including 302 higher degrees).

<sup>\*</sup> 703 of these students were enrolled for the DipEd.

<sup>§</sup> Among these students 1328 enrolled for engineering diplomas, 1291 for diplomas in science, 954 for diplomas in pharmacy, 410 for diplomas in arts and education and 103 for diplomas in architecture.

# UNIVERSITY OF ADELAIDE\*

Founded 1874

Postal Address : Box 498D, G.P.O., Adelaide, South Australia

Cables and Telegrams : Univad, Adelaide

Telephone : 8. 3211

VISITOR—H.E. THE GOVERNOR OF SOUTH AUSTRALIA  
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 VICE-CHANCELLOR—H. B. BASTEN, CMG, MA *Oxon.*  
 DEPUTY VICE-CHANCELLOR—Professor Sir MARK L. MITCHELL, MSc *Camb.*  
 REGISTRAR—V. A. EDGELOE, BA  
 LIBRARIAN—W. A. COWAN, MA N.Z., BA *Lond.*

## TEACHING STAFF

[†=Part-Time]

**Agriculture**, see Waite Agric. Res. Inst.,  
 below

### Anatomy

Abbie, A. A., MD DSc *Syd.*,  
 PhD *Lond.*, FRACP  
 Packer, A. D., MSc MD

Barbour, R. A., MB BS  
 Adams, G. S., MB BS  
 Anderson, A. R., MB BS

Schroder, Judith, BSc (Histol.) Sr. Demr.

**Animal Ecology**, see Zool.

**Animal Products**, see Animal Products  
 Res. Foundation, below

### Architecture

Jensen, R. A., BArch *Liv.*, FRIBA Prof.  
 Hoskings, H. N., DipArch Sr. Lectr.  
 Kendrick, J. D., BScTech *Manc.* Sr. Lectr.  
 4 Lectrs.†

**Australian Linguistics**, see Bd. for  
 Anthropol. Res., below

**Bacteriology**, see Microbiol.

### Biochemistry and General Physiology

Mitchell, Sir Mark L., MSc *Camb.* Prof.  
 Holdsworth, E. S., PhD *Leeds* Reader  
 Roy, A. B., PhD DSc *Edin.* Sr. Lectr.

Neville, Margaret E. S., BSc *Melb.*,  
 PhD *Leeds* Lectr.  
 Jarrett, I. G., MSc (Agric. Biochem.) † Lectr.  
 2 Demrs., 1 Tutor†

### Botany

Robertson, R. N., BSc *Syd.*, PhD *Camb.*,  
 FAA Prof.  
 Womersley, H. B. S., DSc Sr. Lectr.  
 Specht, R. L., PhD Sr. Lectr.  
 Riches, J. P. R., MA PhD *Camb.* Sr. Lectr.  
 Eardley, Constance M., MSc Systematic Botanist  
 Martin, P. G., PhD (Biol.) Sr. Lectr.  
 Duckhouse, D. A., PhD *Lond.* (Biol.) Lectr.  
 Wollaston, Elise M., AUA BSc Sr. Demr.  
 Shepley, Estelle A., MSc (Biol.) Sr. Demr.  
 3 Demrs. (Bot.), 1 Demr. (Biol.)

### Chemistry, Organic

Badger, G. M., MSc *Melb.*, PhD *Lond.*,  
 DSc *Glas.*, FRIC Prof.  
 Rodda, H. J., PhD *Camb.*, MSc Reader  
 Clark-Lewis, J. W., BSc *Lond.*, BPha  
 PhD *Nott.* Reader  
 Lewis, G. E., PhD Lectr.  
 Sasse, W. H. F., PhD Lectr.  
 Beckwith, A. L. J., BSc *W.Aust.*,  
 DPhil *Oxon.* Lectr.  
 Potts, K. T., MSc *Syd.*, DPhil *Oxon.* Lectr.  
 Gilham, P. T., MSc *Syd.*, PhD *N.S.W.* Lectr.

### Chemistry, Physical and Inorganic

Jordan, D. O., PhD DSc *Lond.*,  
 FRIC Angas Prof.

\* Member of the Association of Universities of the British Commonwealth

## AUSTRALIA

West, B. O., PhD <i>Camb. &amp; Adel.</i>	Sr. Lectr.
Urwin, J. R., PhD	Sr. Lectr.
Dunlop, P. J., BSc <i>W.Aust.</i> , PhD <i>Wis.</i>	
Kennedy, S. W., PhD <i>Belf.</i>	Sr. Lectr.
Kurucsev, T., PhD	Lectr.
Bell, T. N., PhD <i>Durh.</i>	Lectr.
Martin, M. L., BA BSc DipEd	Lectr.
Coates, J. H., BSc <i>Nott.</i> , PhD	Lectr.
Diamantis, A. A., MSc <i>Syd.</i> , DIC,	
PhD <i>Lond.</i>	Lectr.
Steel, B. J., BSc <i>W.Aust.</i>	Lectr.

### Classics and Comparative Philology and Literature

Trevaskis, J. R., MA <i>Camb.</i>	Hughes Prof.
Corney, E. R., MA	Sr. Lectr.
French, A., MA <i>Camb.</i>	Sr. Lectr.
Hester, D. A., BA <i>Camb.</i>	Lectr.
Garson, R. W., BA <i>Syd. &amp; Camb.</i>	Lectr.
Hassell, Kathleen L., MA	Sr. Tutor

### Commerce

Mathews, R. L., BCom <i>Melb.</i>	Prof.
Bennett, J. W., BCom <i>Melb.</i>	Lectr.
Parker, R. H., BSc(Econ) <i>Lond.</i>	Lectr.
1 Tutor	

### Dentistry, see below

### Economics

Karmel, P. H., BA <i>Melb.</i> , PhD <i>Camb.</i>	Gollin Prof.
Hirst, R. R., MEd	Reader
Russell, E. A., BA BCom <i>Melb.</i> , MA <i>Camb.</i>	Reader
Jarrett, F. G., BScAgr <i>Syd.</i> , PhD <i>Iowa</i>	(Agric. Econ.) Reader
Hudson, H. R., BEc <i>Syd.</i>	Sr. Lectr.
Dillon, J. L., BScAgr <i>Syd.</i> , PhD <i>Iowa</i>	(Agric. Econ.) Sr. Lectr.
Wallace, R. H., BCom <i>Melb.</i> , BPhil <i>Oxon.</i>	Lectr.
Harcourt, G. C., MCom <i>Melb.</i> , PhD <i>Camb.</i>	Lectr.
Barton, A. D., BCom <i>Melb.</i>	Lectr.
Whitehead, D. H., BA <i>Oxon.</i>	(Econ. Devel.) Lectr.
Hancock, K. J., BA <i>Melb.</i> , PhD <i>Lond.</i>	Lectr.
Brunt, Maureen D., BCom <i>Melb.</i>	Lectr.
Schneider, M. P., MSc <i>Camb.</i> , BA	Res. Fellow
Barnes, R. D., BEc (Pub. Finance)	†Lectr.
1 Tutor	

### Education

Neal, L. F., BA DipEd <i>Lond.</i>	Prof.
Roe, E., MA <i>Oxon.</i> , BEd <i>Q'ld.</i>	Lectr.
David, D. A., MA	†Lectr.
Martin, R. K., BA DipEd	†Lectr.
McQueen, G. H., MB BS <i>Melb.</i> , DPH DTM <i>Syd.</i>	†Lectr.
Milne, Annie J., BA DipEd	†Lectr.
Matthews, R. T., BEd <i>Melb.</i> , BA	†Lectr.

### Engineering, Civil

Bull, F. B., MA <i>Camb.</i> , BSc <i>Lond.</i>	Prof.
Farrent, T. A., BSc BE	Reader
Sved, G., DipMechEng <i>Bud.</i>	Reader
Robinson, A. J., BCE <i>Melb.</i>	Sr. Lectr.
Culver, R., BSc BE	Sr. Lectr.
Tyler, D. H., BE	Sr. Lectr.
Arnold, M., BScEng <i>Natal</i>	Sr. Lectr.
Brooks, D. S., ME	Lectr.
West, G. S., BSc(Eng) <i>Lond.</i>	Lectr.

### Engineering, Electrical

Willoughby, E. O., MA BEE BCE <i>Melb.</i>	Prof.
Ellesworth, G., BSc(Eng) <i>Lond.</i>	Reader
Rose, G. A., BE	Sr. Lectr.
Kaneff, S. D., PhD	Sr. Lectr.
Allen, M. W., PhD <i>Syd.</i> , BE	Sr. Lectr.
Pawsey, D. C., BEE <i>Melb.</i>	Sr. Lectr.
Smith, B. H., BE	Lectr.
Olesnicki, R. M. A., DipEng <i>Livorn</i>	†Lectr.

### Engineering, Mechanical

Davis, H. H., BSc BE <i>Syd.</i> , PhD <i>Camb.</i>	Prof.
Barden, R. G., BSc <i>Lond.</i> , PhD	Reader
Doble, W. D., BE <i>Syd.</i>	Sr. Lectr.
Norrie, D. H., BE BSc <i>N.Z.</i>	Sr. Lectr.
Mannam, J., PhD <i>Birm.</i>	Sr. Lectr.
Fowler, J. H., BE	Lectr.
Thompson, A. G., BE <i>N.Z.</i>	Lectr.
King, R. B., BSc <i>Syd.</i>	Lectr.
Elix, D. L., BE	(Indust. E.) †Lectr.

### Engineering : Mining, Metallurgical and Chemical

Spooner, E. C. R., DPhil <i>Oxon.</i> , DSc <i>Tas.</i> , FRIC	Prof.
.....	(Mining E.) Reader
Tait, R. W. F., PhD <i>Birm.</i>	(Chem. E.) Reader
Pennan, T. O., BSc(Eng) <i>Lond.</i>	Sr. Lectr.
Smith, T. N., BE <i>Syd.</i>	Lectr.

### English Language and Literature

Horne, C. J., MA DipEd <i>Melb.</i> , MA BLitt <i>Oxon.</i>	Jury Prof.
Davies, M. B., MA <i>Oxon.</i>	Reader
Elliott, B. R., MA <i>W.Aust.</i> , DLitt	(Aust. Lit.) Sr. Lectr.
Elliott, R. W. V., MA <i>St.And.</i>	Sr. Lectr.
Mares, F. H., BA <i>Durh.</i> , BLitt <i>Oxon.</i>	Lectr.
Dutton, G. P. H., BA <i>Oxon.</i>	Lectr.
Dixon, P., BA <i>Oxon.</i> , MA <i>Lond.</i>	Lectr.
Haefner, P. C., MA <i>Oxon.</i> , PhD <i>Leeds</i>	Lectr.
Johnson, R. V., PhD <i>Manc.</i>	Lectr.
Rudrum, A. W., BA <i>Lond.</i>	Lectr.
Gibbs, A. M., BA <i>Melb. &amp; Oxon.</i>	Lectr.
Magarey, K. B., MA <i>Oxon.</i> , BA	Lectr.
2 Tutors	

### French

Cornell, J. G., MA <i>Melb.</i> , LèsL <i>Paris</i>	Prof.
Crampton, Mary H. St. C., MA	Sr. Lectr.
Forsyth, E. C., DUParis, BA DipEd	Sr. Lectr.
Souillac, H., LèsL <i>Paris</i>	Lectr.

**Genetics**

Bennett, J. H., MA BSc *Melb.*, PhD *Camb.* Prof.  
 Mayo, G. M. E., PhD Sr. Lectr.  
 Mayo, Mrs. Marjorie J., PhD *Camb.*,  
 MSc *Melb.* Sr. Lectr.  
 Hayman, D. L., PhD Lectr.  
 1 Demr.

**Geography**

Lawton, G. H., MA *Oxon.*, BEd *Melb.* Prof.  
 Thomson, K. W., BA N.Z., PhD *Wash.*  
 Mason, B., BSc Sr. Lectr.  
 Cochrane, G. R., MA N.Z. Lectr.  
 Marshall, Ann, MSc *Melb.* Lectr.  
 Twidale, C. R., MSc *Brist.*, PhD *McG.* Lectr.  
 2 Demrs., 4 Tutors†

**Geology and Mineralogy**

Alderman, A. R., PhD *Camb.*, DSc Prof.  
 Glaessner, M. F., PhD *Vienna*, DSc *Melb.*,  
 FAA (Palæontol.) Reader  
 Kleeman, A. W., PhD Sr. Lectr.  
 Oliver, R. L., MSc N.Z., PhD *Camb.* Sr. Lectr.  
 Jones, J. B., BSc *Q'ld.*, PhD *Wis.* Lectr.  
 Talbot, J. L., BA *Camb.*, MA *Calif.*  
 (Mineral. & Petrol.) Lectr.  
 McBriar, Elizabeth M., BSc *Melb.* Sr. Demr.  
 Wade, Mary J., PhD Sr. Demr.  
 2 Demrs.

**Geology, Economic**

Rudd, E. A., AM *Harv.*, BSc Prof.

**German**

Van Abbe, D., MA *Camb.*, PhD *Melb.*  
 Reader-in-Charge  
 Siliakus, H. J., BA *Birm.* Lectr.  
 Livingstone, R. S., BA *Camb.* Lectr.  
 1 Tutor

**History**

Stretton, H., MA *Oxon.* Prof.  
 Pike, D. H., DLitt Reader  
 Inglis, K. S., MA *Melb.*, DPhil *Oxon.* Reader  
 Kent, H. S. K., MA N.Z., PhD *Camb.* Sr. Lectr.  
 Woodroffe, Kathleen, MA Sr. Lectr.  
 Rudé, G. F., MA *Camb.*, PhD *Lond.* Sr. Lectr.  
 Phillips, W. A. P., MA *Oxon.* Lectr.  
 Gilchrist, J. T., PhD DipEd *Leeds* Lectr.  
 Jack, M. A., MA *Oxon.* Lectr.  
 Wilson, T. G., MA N.Z., DPhil *Oxon.* Lectr.  
 Kinloch, H. G., BA *Camb.*, PhD *Yale* Lectr.  
 Mandle, W. F., BA *Oxon.* Lectr.  
 2 Tutors

**History and Political Science**

Duncan, W. G. K., MA *Syd.*, PhD *Lond.* Prof.  
 Reid, G. S., BCom *Melb.*, PhD *Lond.*  
 (Govt. & Pub. Admin.) Sr. Lectr.  
 Reid, R. L., MA (Pol. Theory) Lectr.  
 Leifer, M., BA *R'dg.*, PhD *Lond.* Lectr.  
 1 Tutor

**Law**

Morris, N. R., LL.M. *Melb.*, PhD *Lond.*  
 Bonython Prof.  
 O'Connell, D. P., BA LL.M. N.Z.,  
 PhD *Camb.* Reader  
 Castles, A. C., LL.B. *Melb.*, JD *Chic.* Sr. Lectr.  
 Kavass, I. I., LL.B. *Melb.* Sr. Lectr.  
 Howard, C., LL.M. *Lond.* Sr. Lectr.

**†Lecturers**

Scarfe, E. B., LL.B. (Evidence & Procedure)  
 Whittington, L. A., LL.B. (Companies,  
 Partnership, Bankruptcy & Divorce)  
 Hunter, B. O., LL.B. (Equity)  
 Wells, W. A. N., BA BCL *Oxon.*, LL.B. (Property)  
 Blackburn, R. A., BCL *Oxon.*,  
 BA *Oxon.* & *Adel.* (Contract)  
 McEwin, J. N., LL.B. (Legal Ethics)  
 Bray, J. J., QC, LL.D. (Roman L.)  
 Mitchell, Roma F., LL.B. (Family)  
 Sangster, A. K., LL.B. (Taxation)  
 Isaachsen, O. C., LL.B. (Comm. L.)  
 Jacobs, S. J., LL.B. (Comm. L.)  
 2 Tutors

**Mathematical Physics**

Green, H. S., PhD *Lond.*, DSc *Edin.*, FAA Prof.  
 Hurst, C. A., BA BSc *Melb.*, PhD *Camb.* Reader  
 McCarthy, I. E., PhD Lectr.

**Mathematics**

Barnes, E. S., BA *Camb.* & *Syd.*, PhD *Camb.*,  
 FAA (Pure M.) Elder Prof.  
 Potts, R. B., DPhil *Oxon.*, BSc  
 (Appl. M.) Prof.  
 Cornish, E. A., DSc, FAA (Mathl. Stats.) †Prof.  
 Szekeres, G., DipChemEng *Bud.* Reader  
 Gray, M. C., BSc Sr. Lectr.  
 Rennie, B. C., MA PhD *Camb.* Sr. Lectr.  
 Brearley, M. N., BE *W.Aust.*, BSc *Syd.*,  
 BA *Camb.*, PhD Sr. Lectr.  
 Elliott, D., MSc *Lond.*, MSE *Prin.* Sr. Lectr.  
 Michael, J. H., PhD Sr. Lectr.  
 Morris, K. W., BSc Lectr.  
 Sanderson, J. G., MSc Lectr.  
 Mansbridge, H. E., MSc Lectr.  
 1 Tutor

**Medicine, see below****Microbiology**

Rowley, D., MD PhD *Lond.* Prof.  
 Atkinson, Nancy, OBE, MSc *Melb.*,  
 DSc Reader  
 Collins, F. M., MSc Lectr.  
 Jenkin, C. R., PhD *Lond.* Lectr.  
 McCartney, J. E., MD *Edin.* †Lectr.  
 Pavillard, R. E., MB BS *Lond.* Res. Fellow  
 3 Demrs.

**Mineralogy, see Geol.**

**Music**, see also Elder Conservatorium, below

Bishop, J., OBE, FRCoM	Elder Prof.
Horner, J. A., FRCo	Sr. Lectr.
Peters, J. V., BMus <i>Dalh.</i> , MusD <i>N.Z.</i> , FRCo	Lectr.
Fairhurst, H.	Lectr.
Holder, Alison J., MusBac	Lectr.

**Pathology**

Robertson, J. S., MB BS <i>Syd.</i> , DPhil <i>Oxon.</i>	Marks Prof.
Reid, R. T. W., MD	Reader
Hodge, P. R., MB BS (Forensic P.)	Sr. Lectr.
Pak Poy, R., MD	Lectr.
Murray, K. D., MB BS <i>Syd.</i>	Lectr.
Lykke, A. W. J., MB BS	Lectr.
Matz, L. R., MB BS	Lectr.

**Pharmacology**, see *Physiol.***Pharmacy**

Reynolds, B. L., BPharm <i>Lond.</i>	Sr. Lectr.-in-Charge
Anderson, R. A., BSc	Lectr.
Stock, B. H., AUA	Lectr.
McCarthy, R. C., AUA	Lectr.

**Philosophy**

Smart, J. J. C., MA <i>Glas.</i> , BPhil <i>Oxon.</i>	Hughes Prof.
Finnis, M. M. S., BA	Sr. Lectr.
Martin, C. B., BA <i>Boston</i> , PhD <i>Camb.</i>	Sr. Lectr.
Presley, C. F., BA <i>Wales</i> , BLitt <i>Oxon.</i>	Lectr.

**Physical Education**

Apps, B. F. G., BA DipEd DPE <i>Melb.</i>	Sr. Lectr.-in-Charge
Barwell, Elizabeth M.	Lectr.
Sedgwick, A. W., BA <i>Bum.</i>	Lectr.

**Physics**

Tomlin, S. G., PhD <i>Lond.</i>	Elder Prof.
Fuller, G. R., BSc	Reader
Aitchison, G. J., PhD	Sr. Lectr.
Crompton, R. W., PhD	Sr. Lectr.
Elford, W. G., PhD	Sr. Lectr.
Sutton, D. J., PhD	Sr. Lectr.
Medlin, E. H., PhD	Sr. Lectr.
Hiffe, M. I. G., BSc	Lectr.
Bevan, A. R., BSc <i>Lond.</i> , MSc <i>Syd.</i>	Lectr.
Kempster, C. J. E., MA PhD <i>Camb.</i>	Lectr.
Lawrance, R., MSc	Lectr.
Ericson, L. G., PhD	Lectr.
Mitchnik, V., BSc <i>M.I.T.</i> , MSc <i>Calif.</i>	Sr. Demr.
3 Demrs.	

**Physiology, General**, see *Biochem.***Physiology, Human, and Pharmacology**

Whelan, R. F., MD PhD <i>Belf.</i>	Prof.
Lippay, F., MD DJur <i>Vienna</i> , DO <i>Lond.</i> , DSc	Reader
de la Lande, I. S., PhD <i>Melb.</i>	(Pharmacol.) Reader
Kerr, D. I. B., PhD	Sr. Lectr.
Day, A. J., MSc MD	Sr. Lectr.
Sandison, A. G., MB BS	Lectr.
Dellow, P. G., MB BS	Lectr.
3 Demrs.	

**Physiotherapy**

Casely, Elma G.	Lectr.-in-Charge
Hammond, Marie J., AUA	Lectr.
4 Lectrs.†, 7 Tutors†	

**Political Science**, see *Hist. and Pol. Sci.***Psychology**

Jeeves, M. A., MA PhD <i>Camb.</i>	Prof.
Dienes, Z. P., PhD <i>Lond.</i> , DipEd <i>Leic.</i>	Reader
Lovibond, S. H., BA <i>Melb.</i> , MA	Sr. Lectr.
Brown, L. B., MA DipEd <i>N.Z.</i> , PhD <i>Lond.</i>	Lectr.
Gibbs, D. N., MA <i>N.Z.</i> , PhD <i>Lond.</i>	Lectr.
Penny, R. E. C., BA <i>Melb.</i>	Lectr.
Glow, P. H., BA <i>Melb.</i> , PhD <i>Lond.</i>	Lectr.
Pickersgill, Mary J., BA <i>Oxon.</i> , PhD <i>Leeds</i>	Lectr.

**Social Studies**

Brown, R. G., BA DipSocStud <i>Melb.</i> , MSS <i>Bryn Mawr</i> , PhD <i>Bum.</i>	Sr. Lectr.-in-Charge
Norton, Margaret, BCom DipSocStud <i>Melb.</i> , MA <i>Chic.</i>	Lectr.
Shaw, Frances C., BA (SocSc) <i>S.A.</i> , MSW <i>TrG.</i>	Lectr.
Ridgley, Charlotte, AB <i>Penn.</i> , MSW <i>N.Carolina</i>	Lectr.

**Zoology**

Rogers, W. P., MSc <i>W.Aust.</i> , PhD <i>Lond.</i> , FAA	Prof.
Andrewartha, H. G., DSc (Animal Ecol.)	Reader
Thomas, I. M., MSc <i>Wales</i>	Sr. Lectr.
Edmonds, S. J., BA PhD	Sr. Lectr.
Sharman, G. B., BSc <i>Tas.</i>	Sr. Lectr.
Browning, T. O., BSc <i>Syd.</i> , PhD (Animal Ecol.)	Sr. Lectr.
Madge, P. E., PhD (Animal Ecol.)	Res. Fellow
Angel, L. Madeline, MSc	Sr. Demr.
2 Demrs.	

**DENTISTRY**

(See also Anat., Biochem., Chem., Microbiol., Pathol., Physiol. and Zool., above)	
Horsnell, A. M., FDSRCS	(D. Sci.) Prof.
Vnuk, F., BA BSc	(D. Metall.) †Lectr.
Hughes, J. E., MB MS	(Surg.) †Lectr.
McPhie, J. M., MB BS, MRACP	(Med.) †Lectr.

Willoughby, R. G., MDS  
(Principles of D. Practice) †Lectr.  
Marshman, W. M., BDS (Children's D.) †Lectr.  
Bloomfield, A. J., BDS  
(D. Mat. Med. & Therapeutics) †Lectr.  
Sweeney, R. J., MB BS  
(Anaesthetics) †Lectr. & Instr.  
Hecker, R., MD, MRCP (Med.) †Tutor  
McLeay, D. B., MB BS (Surg.) †Tutor  
1 Demr.

### Conservative Dentistry

Lawrence, G. O., DDSc †Lectr. & Instr.  
7 Tutors†

### Crown and Bridge Work

Mount, G. J., BDS *Syd.* †Lectr.  
1 Tutor†

### Dental Anatomy

Brown, T., BDS Lectr.

### Dental Surgery and Pathology

Cran, J. A., BDS *Q'ld.*, MDS Reader  
Radden, B. G., BDS *W. Aust.*, PhD *Lond.*,  
FDSRCS Sr. Lectr.  
2 Tutors†

### Orthodontics

Begg, P. R., BDS *Melb.*, DDSc †Lectr.  
1 Tutor

### Periodontics

Reade, P. C., BDS, FDSRCS Lectr.

### Prosthetic Dentistry

Barrett, M. J., MDS Reader  
Edwards, H. T. J., DDSc †Lectr.  
4 Tutors†, 4 Demrs.†

## MEDICINE

Pathol., Phys., Physiol. and Zool., above)  
(See also Anat., Biochem., Bot., Chem., Microbiol.,

### Child Health

Maxwell, G. M., MD *Edin.*, MRCP  
McGregor Reid, Prof.  
2 Tutors†

### Medicine

Robson, H. N., MB ChB *Edin.*, FRCPed  
Mortlock Prof.  
Hetzel, B. S., MD, FRACP Reader  
Lander, H., MB BS, MRACP Sr. Lectr.  
Hodge, R. L., MB BS Asst. to Prof.  
Michell Res. Fellow  
Kinloch, Margaret A., MB BS Res. Fellow  
Chmner, M. E., MD, FRACP (Med.) †Lectr.  
Sangster, C. B., MD, MRCP (Med.) †Lectr.  
Bonnin, J. M., MD, MRCP (Med.) †Lectr.

Burston, R. A., MB BS, MRCP (Med.) †Lectr.  
Southwood, H. M., MD (Psychol. Med.) †Lectr.  
Paxon, T. G., MD *Lond.*, MRCP  
(Pulmonary TB.) †Lectr.  
Tutors†: 9 in Med., 2 in Infectious Dis.,  
1 in Clin. Psychiatry

### Obstetrics and Gynaecology

Cox, L. W., MB ChB *N.Z.*, FRCS, FRACS Prof.  
Poidevin, L. O. S., MB BS *Syd.*, MD  
(Obstet.) Reader  
Bockner, V. (Obstet.) Sr. Lectr.  
Pellew, H. E., MB BS (Gynaecol.) †Way Lectr.  
9 Tutors†

### Public Health and Preventive Medicine

Woodruff, P. S., MD *Melb.*, DTM&H *Syd.*,  
MRACP †Lectr.  
2 Demrs.†

### Studies in Humanities

Harris, C. R. S., MA DPhil *Oxon.*,  
PhD *Prim.* Reader

### Surgery

Jepson, R. P., BSc MB ChB *Mane.*, FRCS Prof.  
Catchpole, B. N., MD MS *Mane.*,  
FRCS Reader  
Opit, L. J., MB BS, FRCS (Surg.) Sr. Lectr.  
Jones, R. B., MB BS, FRCS (Surg.) †Sr. Lectr.  
Lendon, A. H., MB BS, FRCS (Surg.) †Lectr.  
Barbour, J. R., MB MS, FRCS (Surg.) †Lectr.  
McEachern, A. C., MB MS, FRCS  
(Surg.) †Lectr.  
Magarey, J. R., MB BS, FRCS (Surg.) †Lectr.  
McLarty, T. L., MD DOMS  
(Ophthal. Surg.) †Gosse Lectr.  
Cocks, A. S. de B., MS DLO, FRACS  
(Dis. of Ear, Nose & Throat) †Lectr.  
McKay, D. G., MB BS, FRCSEd  
(Surg. Dis. of Children) †Lectr.  
Marshall, N. G., MB ChB *N.Z.*, DA, FFA  
(Anaesthetics) †Lectr.  
16 Tutors†

### Clinical Teachers

Staffs of Royal Adelaide, Q. Elizabeth and  
Children's Hosps.

## ANIMAL PRODUCTS RESEARCH FOUNDATION

Marston, H. R., DSc *A.N.U.* & *Adel.*,  
FRS Chairman, Advisory Bd.  
Dawbarn, Mary C., DSc Res. Chemist

## ANTI-CANCER COMMITTEE

Hanson, B. S., DSO, OBE, ED, MB BS  
Chairman of Cttee. & Hon. Radiotherapist  
Gurner, C. M., MB BS  
Hon. Asst. Radiotherapist

Worthley, B. W., BA MSc      Sr. Physicist  
 Tooze, M. J., BSc      Physicist  
 Parker, M. H., MSc      Physicist  
 Hayward, Judith M., BSc      Asst. Physicist  
 Morgan, Elma S., MB BS      Neoplasm Registrar

### BOARD FOR ANTHROPOLOGICAL RESEARCH

Strehlow, T. G. H., MA  
 Reader in Australian Linguistics

### ELDER CONSERVATORIUM OF MUSIC

Bishop, J., OBE, FRM      Dir.  
 Teachers  
 Johnston, F.      †(Art of Speech)  
 Holder, Alison, MusBac      †(Aural Culture & Musical Appreciation)  
 Good, J. G.      †(Bassoon Ensemble Playing & Orchestral Class)  
 Martin, C.      †(Clarinet)  
 Bone, A.      †(Double Bass)  
 .....      (Drama)  
 Davies, L.  
 (Ensemble Playing & Orchestral Class, Violin)  
 Fairhurst, H.  
 (Ensemble Playing & Orchestral Class, Violin)  
 Jasek, L.      (Violin, Viola, Orchestral Class)  
 Whitehead, Nora      †(Violin, Viola)  
 Yelland, K.      †(Flute)  
 Cubbin, D.      †(Flute)  
 Fry, S.      †(French Horn)  
 Jones, H.      †(Harp)  
 Post, N.      †(Oboe)  
 Howard, Barbara      (Opera, Singing)  
 Horner, J. A., FRCO  
 (Musical Appreciation, Organ, Pianoforte)  
 Peters, J. V., BMus *Durh.*, MusD *N.Z.*,  
 FRCO      (Organ)  
 Smith, R.      †(Percussion)  
 Dossor, H. L.      (Pianoforte)  
 Leske, C. T., MusBac *Melb.*      (Pianoforte)  
 Williams, Enid      †(Pianoforte)  
 Matters, A.      (Opera, Singing)  
 Watson, R.      (Singing)  
 Limb, Diana      (Singing)  
 Govenlock, J. C., MusBac      †(Theory)  
 Taylor, L.      †(Trumpet)  
 Bishop, J. D.      †(Violoncello)  
 Whitehead, J.      (Violoncello)

### WAITE AGRICULTURAL RESEARCH INSTITUTE

Melville, J., MSc *N.Z.*, PhD *Lond.*      Dir.  
 .....      Biometrician

### Agricultural Chemistry

Morton, R. K., BScAgr *Syd.*, PhD *Camb.*,  
 FAA      Waite Prof.  
 Quirk, J. P., BScAgr *Syd.*, PhD *Lond.*  
 (Soil Sci.) Reader

Best, R. J., DSc      (Virol.) Reader  
 Simmonds, D. H., PhD *Lond.*, MSc  
 (Protein Chem.) Sr. Lectr.  
 Millerd, Alison A., PhD *Syd.*  
 (Plant Biochem.) Sr. Lectr.  
 Greenland, D. J., MA DPhil *Oxon.*  
 (Soil Sci.) Lectr.  
 Atkinson, M. R., PhD *Tas.*  
 (Enzyme Chem.) Lectr.  
 Lewis, D. G., MSc      (Soil Chem.) Lectr.  
 Gallus, H. P. C., MSc      (Virus Chem.) Lectr.  
 Graham, Janet S. D., PhD *Str.And.*  
 (Protein Biochem.) Lectr.  
 Falconer, I. R., BSc *Nott.*  
 (Animal Biochem.) Lectr.  
 Jennings, A. C., BSc *Syd.*      (Analyst) Lectr.  
 Carpenter, J. A., MSc(Agric) *W.Aust.*  
 (Species Studies) Lectr.  
 Posner, A. M., PhD *Lond.*      (Soil Sci.) Lectr.

### Agronomy

Donald, C. M., BScAgr *Syd.*, MAgSc  
 Waite Prof. of Agric., Hd. of Dept.  
 Black, J. N., MA DPhil *Oxon.*      Reader  
 Finlay, K. W., PhD *W.Aust.*  
 (Plant Breeding & Genetics) Sr. Lectr.  
 .....      (Agrostol.) Sr. Lectr.  
 Barley, K. P. J., MAgSc *Melb.*      Sr. Lectr.  
 Millington, R. J., MSc *Syd.*, PhD      Sr. Lectr.  
 Knight, R., BSc *Lond.*, DipAgricSc *Camb.*,  
 DipTropAgr *I.C.T.A.*  
 (Plant Breeding & Genetics) Lectr.  
 Powrie, J. K., BSc(Agric) *W.Aust.*, MSc      Lectr.  
 Silsbury, J. H., BSc(Agric) *W.Aust.*  
 (Agrostol.) Lectr.  
 Abele, K., MA *Riga*, PhD *Marburg & Tartu*  
 (Cytol.) Lectr.  
 Allden, W. G., MA *Camb.*  
 (Animal Production) Lectr.  
 Sparrow, D. H. B., BSc *R'dg.*  
 (Plant Breeding & Genetics) Lectr.  
 Symon, D. E., BAgSc      (Bot.) Lectr.

### Entomology

Swan, D. C., MSc      Reader-in-Charge  
 Lower, H. S. F., MSc      Sr. Lectr.  
 Johnson, B., BScAgr *Syd.*, PhD *Lond.*      Sr. Lectr.  
 Doull, K. M., MAgSc *N.Z.*      Lectr.  
 Maelzer, D. A., MSc *W.Aust.*, PhD      Lectr.  
 Miles, P. W., MSc *Rhodes*, PhD *Camb.*      Lectr.  
 Crawford, L. D., BSc *Tas.*      Lectr.  
 Monro, J. M., BSc *Syd.*, PhD      Lectr.  
 Taylor, D. J., BSc *Wales*, DipAgricSc *Camb.*,  
 DipTropAgr *I.C.T.A.*      Lectr.  
 Morgan, F. D., MSc *N.Z.*, PhD *Calif.*      Lectr.  
 Brookes, Helen M.  
 Asst. Systematic Entomologist

### Plant Pathology

Flentje, N. T., PhD *Lond.*, MSc  
 Reader-in-Charge

Warcup, J. H., PhD *Camb.*, MSc N.Z.  
(Microbiol.) Sr. Lectr.  
Kerr, A., BSc *Edin.*, PhD  
(Plant Pathol.) Sr. Lectr.  
Crowley, N. C., BScAgr *Syd.*, PhD Lectr.  
Carter, M. V., MAgSc (Plant Pathol.) Lectr.  
Clare, B. G., BSc *Q'ld.* Lectr.  
Fisher, J. M., BScAgr *Syd.* (Nematol.) Lectr.  
Vaartaja, O., PhD *Helsinki* (For. Pathol.) Lectr.

**Plant Physiology**  
May, L. H., PhD *Lond.*, BSc Reader-in-Charge  
Marinos, N. G., BA *Iowa*, PhD Lectr.  
Paleg, L. G., PhD *Iowa* Lectr.  
Aspinall, D., PhD *Nott.* Lectr.  
Coombe, B. G., PhD *Calif.*, MAgSc Lectr.  
Edwards, G. R., MSc *Calif.*, BAgSc  
(Hortic.) Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Academic): H. E. Wesley  
Smith, BEd *Melb.*, DipEd *Oxon.*, BA. Asst.  
Registrar (Finance): W. Meiklejohn. Asst. Ac-  
countant: E. S. Wyett, AUA. Chief Clerk:  
D. W. Wallis. Sr. Admin. Assts.: H. J. Buchan,  
BSc *Syd.*; L. N. Shaw, BEc *Syd.*; K. J. Farrer,  
BA(Econ) *Manc.*; J. T. Whelan, BEc. Admin.  
Assts.: A. N. Fricker, LLB *Liv.*; E. G. King,  
BA *W.Aust.*; T. J. Somerville, BComm DipPub  
Admin *N.U.I.*; A. D. Scott. Statistics Officer:  
D. W. Simmons, DFC, AUA BEc. Buildings  
Officer: G. J. Harrison, BArch *Syd.* Asst. to

Vice-Chancellor: G. L. Williamson, BSc. Asst.  
to Registrar: F. S. Hambly, BEc. Sec. of Bds. of  
Public Exams.: L. H. Dalziel, BA. Asst. Sec. of  
Bds. of Public Exams.: L. A. G. Wright. Sec.  
of Waite Agric. Res. Inst.: G. L. Gooden. Sec.  
of Elder Conservatorium: J. L. Porter. Asst.  
Librarians: Margaret W. Sorrell, BA (Catalogu-  
ing); Kerstin L. Andersen, BA (Readers' Ser-  
vices). Warden of Union: F. T. Borland, MA  
*Melb.*, DipEd *Edin.* Sec. of Union: H. Swales  
Smith.

## ASSOCIATED OR AFFILIATED INSTITUTIONS

AQUINAS COLLEGE [residential], Montefiore Hill,  
North Adelaide, S.A. (tel.: Adelaide 6. 9944).  
Opened 1950. Under management of Roman  
Catholic Church, but open to men of all denomina-  
tions. Rector—Very Rev. Fr. M. A. M. Scott,  
MSc *Dub.*

LINCOLN COLLEGE [residential], Brougham  
Place, North Adelaide, S.A. (tel.: Adelaide 6.  
8019). Opened 1952. Under management of  
Methodist Church, but open to men of all de-  
nominations. Master—Rev. W. F. Hambly, MA  
BD *Melb.*

ROSEWORTHY AGRICULTURAL COLLEGE, Rose-  
worthy, S.A. (tel.: Roseworthy 2). Opened  
1885. Principal—R. N. McCulloch, DSc *Q'ld.*  
Affiliated for parts of BAgSc course for agric.  
students.

ST. ANN'S COLLEGE [residential], Brougham  
Place, North Adelaide, S.A. (tel.: Adelaide 6.  
9078). Opened 1947. Open to women of all

denominations. Principal—Lilian Bush, MA  
*Edin.*

ST. MARK'S COLLEGE [residential], Pennington  
Terrace, North Adelaide, S.A. (tel.: Adelaide  
6. 9211). Opened 1925. Under management  
of Church of England, but open to men of all  
denominations. Master—R. B. Lewis, BSc *Melb.*,  
BA.

S. AUSTRALIAN INSTITUTE OF TECHNOLOGY,  
North Terrace, Adelaide, S.A. (tel.: Adelaide 8.  
1771). Dir.—R. W. Parsons, ME. Affiliated  
with the univ. for the provision of certain courses  
and exams. in engin. and technol.

TEACHING HOSPITALS ASSOCIATED WITH MEDI-  
CAL SCHOOL. Royal Adelaide H., approx. 800  
beds, apart from subsidiary hosps. for cancer,  
TB., infectious diseases, etc.; Queen Elizabeth  
H., 450 beds; Queen Victoria Maternity H., 100  
beds; Adelaide Children's H., 350 beds;  
'Mareeba' Babies' H.; Parkside Mental H.

## GENERAL INFORMATION

The univ. was establd. by act of the provincial  
legislature in 1874. It began with endowments of  
£A20,000 each from Sir W. W. Hughes and Sir  
Thomas Elder, a land grant of 50,000 acres (sub-  
sequently repurchased by the govt. for £A40,000),  
a site of 5 acres in the city and an annual govt.  
subsidy of 5 per cent. on endowments. The  
original site was increased to 8 acres in 1920, to

14 acres in 1927, in 1929 to 27 acres and in 1960  
to about 30 acres.

CONSTITUTION. The council consists of the  
chancellor, the vice-chancellor, 20 members  
elected by the senate and 5 elected by parliament.

The senate consists of all grads. holding degree  
of master or doctor and all other grads. of 3 yrs.'  
standing.



**INCOME (1959).** Total for general running costs, £A1,670,000 (govt. grants, 87 per cent.; endowments, 3 per cent.; fees, 8 per cent.; other, 2 per cent.). Income and grants for specific purposes, £A169,000. Original capital of endowments, about £A1,510,000.

**FACULTIES.** Agric. sci., archit. & town planning, arts, dent., econ., engin., law, med., music, sci., technol.

**BOARDS OF STUDIES.** Phys. educn., soc. studies, pharmacy, physiotherapy, research studies (for PhD degree).

**UNIVERSITY PRECINCT.** The campus consists of about 30 acres within the city of Adelaide and about 35 acres in park-lands for playing fields. 2 major bldgs. recently completed and 2 more under construch.

**LIBRARY.** Approx. 244,000 vols., incl. 14,000 vols. in Waite Inst. library.

**LABORATORIES.** At the univ.—anat., biochem., bot., chem., engin. (civil, electr., mech., mining, metall. and chem. engin.), geol., histol., microbiol., pathol., pharm., phys., physiol., pharmacol. and zool. For the Waite Inst., *see below*.

**MUSEUMS.** Anat., bot., geol., pathol. and physiol.

**TEACHING HOSPITALS.** *See above.*

The **ELDER CONSERVATORIUM OF MUSIC** (for staff *see p. 26 above*), establd. in 1898, is part of the univ. and provides tuition in a wide range of studies in the performance of music. Its students include not only those proceeding to the univ. dipl. but also many others who wish to study a principal subj. (e.g. singing or pianoforte) or to undergo trg. in group work such as orchestral and operatic performances and who satisfy the dir. of their fitness to be admitted.

The **WAITE AGRICULTURAL RESEARCH INSTITUTE** (for staff *see p. 26 above*) was establd. in 1924 as a result of a gift by the late Mr. Peter Waite of an estate of 299 acres, a mansion-house and a trust fund of £A58,450. Subsequent endowments and govt. grants have expanded the work of the inst., the purpose of which is 'to further the cause of res. and educn. in agric. and allied subjects'.

**OTHER SPECIAL RESEARCH DEPARTMENTS.** (1) Field lab. at Koonamore for investigation of plant regeneration in arid areas. (2) Sheridan Medical Res. Foundation for support of med. res. (3) Animal Products Res. Foundation, which conducts investigations into problems of animal nutrition (*see staff list, above*). (4) Bd. for Anthropological Res. on aborigines of Australia. (5) Anti-Cancer Cttee. directs res. into cause, treatment and cure of cancer. (6) John Mortlock Res. Station at Yundnapinna. (7) Gwendolyn Michell Res. Foundation for med. res. (8) Mawson Inst. for antarctic res.

**COLLECTIONS OF INTEREST TO SPECIALIST SCHOLARS.** Collection of Australian endoparasites.

The collection of the higher Australian fungi (basidiomycetes) given to the Waite Inst. by Prof. J. B. Cleland is by far the largest of its kind and is available for study by mycologists and forest pathologists. Collection of representative specimens from all the Australian opal fields. Anthropological collection of Australian skeletons. Collections of marsupial material. Herbarium of Australian plants. Reference library of Australian Salmonellas.

**ADMISSION.** *See Appendix II.*

**ORDINARY DEGREES.** 3 yrs., BA, BEc, BSc, BTech (courses in bldg. technol.; civil, electr., electronic and mech. engin.; chem. technol.; extractive metall.; phys. metall.; mineral dressing; surveying, given chiefly at S. Australian Inst. of Technol.); 4 yrs., BSc in forestry (including 2 yrs. at Australian Forestry Sch., Canberra), BAgSc, LLB, MusBac; 5 yrs., BE (civil, electr., mech., mining, metall., and chem.), BDS, BArch; 6 yrs., MB BS. Part of the work for the ordinary degrees of BA, BEc, BSc, BTech, LLB, MusBac and BE may be undertaken on a pt.-time basis.

**HONOURS DEGREES.** 4 yrs.—BA (classics; econ.; Engl.; French; geog.; German; hist.; Latin; maths.; philos.; pol.; psychol.; or an approved jt. course in 2 of those subjs.); BEc (comm., econ.); BSc (biochem.; bot.; chem.; genetics; geol.; mathl. phys.; maths.; microbiol.; phys.; physiol.; zool.); MusBac (both addnl. work and higher standard than for ord. degree). 5 yrs.—BAgSc (any approved branch of agric. sci.); BMedSc (anat.; biochem.; genetics; microbiol.; pathol.; pharmacol.; physiol.); BE (both addnl. work and higher standard than for ord. degree, in chem., civil, electr., mech., metall., and mining engin.); BArch, LLB (both addnl. work and higher standard than for ord. degree). No hons. degree in med. or in dent.

**HIGHER DEGREES.** MArch (not less than 1 yr. after ord. degree); MA, MEc, MSc, MAgSc (1 yr. after hons. degree or 2 yrs. after ord. degree); ME, MDS (2 yrs. after BE, BDS); LLM (2 yrs. after hons. LLB); MD, MS, MusDoc (3 yrs. after MB BS, MusBac); PhD (3 yrs. after hons. bachelor degree in agric. sci., archit., arts, econ., engin., med. sci., or sci.); LLD, DSc (4 yrs. after LLB, BDS); DLitt, DSc (5 yrs. after graduation).

**EXTERNAL DEGREES.** The univ. does not award any degree or dipl. for external studies, though in certain courses, e.g. arts, S. Australian students may, in special circumstances, be exempted from attendance at lectures in some subjs. of the degree course.

**DIPLOMAS.** Any subgrad. dipl. awarded by the univ. entitles the holder to use the letters AUA—Associate of the University of Adelaide—and, if desired, to specify the subj., e.g. AUA(Pharm).

Pharmacy, 4 yrs.; pre-primary, primary and secondary educn., each 1 yr. after graduation; music, phys. educn., soc. studies, physiotherapy, 3 yrs. Fellowship of the Elder Conservatorium

of Music (FECM) by exam. or by unanimous resolution of fac. of music for eminence as a performer. A 'final cert. in law' for admission as a practitioner in the supreme court is obtainable by articled clerks on a curriculum less extensive than that for the LL.B.; a dipl. in arts & educn. (AUA) is granted to candidates who complete prescribed work in the fac. of arts plus prescribed professl. trg. in one of the 2 recognized teachers' colls. (3 yrs.); a dipl. in pub. admin. is granted to candidates who successfully complete a prescribed course of study in the fac. of econ. and who have had at least 3 yrs.' satisfactory service in the S. Aust. public service or similar orgn.

**PUBLIC EXAMINATIONS.** The univ. conducts the 3 public exams. in general secondary educn. in S. Australia—inter., leaving and leaving honours—and the public exams. in music.

**POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION.** The postgrad. cttees. in med. and dent. organize regular postgrad. lectures by local, interstate and overseas lectrs.

**THE COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION's** div. of mathl. stats. and div. of biochem. and general nutrition are housed within the univ. grounds and its div. of soils at the Waite Inst.—a total of about 60 scientific res. officers and their ancillary staff.

**RESEARCH.** Facilities for postgrad. res. in every subj. listed under Teaching Staff (*above*); the univ. makes annual allocation for *special* support of res. projects and postgrad. res. students; and in 1959 grants from outside sources for specific res. projects amounted to about £A169,000. A *Research Report* is published annually; copies may be had free of charge by univs. and libraries on request to the registrar.

**STUDY LEAVE.** The univ. has a special fund to support study leave, which is granted not at regular intervals of right but after consideration of all applns. for such leave in a particular yr. Study leave is granted on full salary, with £A600 for fares overseas and a daily allowance for men with family responsibilities.

**FEES.** Matric., £A3:3s.; *ad eundem statum*, £A4:4s.; admission to degrees: any degree of bachelor, whether ord. or honours, £A5:5s.; any degree of master or doctor, £A10:10s.; any dipl., and FECM, £A5:5s.; statutory annual fee, £A10:10s.; general service fee, £A6:6s. or £A3:3s.; tuition fees for degree courses in arts about £A56 p.a.; econ. about £A58 p.a.; sci. about £A93 p.a.; agric. sci. about £A84 p.a.; engin. about £A84 p.a.; law about £A63 p.a.; med. about £A95 p.a. (excl. hosp., £A40); dent. about £A90 p.a.; music about £A53 p.a.; technol. about £A75 p.a.; archit. about £A84 p.a.; dipl. courses in music, physiotherapy, phys. educn., and soc. studies, about £A63 p.a.; in pharmacy, special; Elder Conservatorium tuition about £A40 p.a.

**ACADEMIC YEAR.** Mid-March to early Dec.: 3 terms of 10, 9 and 15 wks., each lecturing term comprising 9 wks.

**ADULT EDUCATION.** Univ. bd. of adult educn. conducts extensive range of lecture, tutorial and discussion classes and study circles for adults in metropolitan area of Adelaide and is extending its work to country centres. Dir.: A. S. M. Hely, MA BCom N.Z.; Asst. to Dir.: D. W. Crowley, MA N.Z., PhD Lond.; Tutor Organizer: F. V. Bitmead, BA W.Lust.; Admin. Asst.: C. R. Lawton.

**VACATION COURSES.** Summer Sch. of Bus. Admin., organized by Dept. of Econ. (*see also* Publications *below*).

**PRINCIPAL 'OPEN' AWARDS.** About 300 commonwealth scholps. (*see* p. 12) and 60 state bursaries (for residents of S. Australia; fees plus living allowance) each yr. for undergrad. studies. Not less than 8 commonwealth postgrad. scholps. (£A700 p.a., renewable each yr. up to 4 yrs. on recommendation of supervisor). About 30 (no. varies each yr.) scholps. and fellowships (£A500–£A1200 p.a.) for postgrad. studies.

**APPOINTMENTS BOARD.** The univ. maintains a small appts. service for the benefit of jr. grads. Sec.: T. J. Somerville, BComm DipPubAdmin N.C.I.

**SERVICE UNITS.** The univ. regiment was formed in 1947 and the univ. air squadron in 1950.

**UNIVERSITY UNION.** All students proceeding to a 1st degree or a dipl. are members of the union, and all full-time students are members of the sports assocn. also. A compulsory fee of £A10:10s. p.a. covers both. The *union council* controls the refectory and the union hall and maintains the health service, which offers without charge to the student a full med. and physical exam., including X-ray, Mantoux, etc., and advice about specific treatment (if any) needed and general health matters. The *sports assocn.* provides facilities for the whole range of organized games played in S. Australia; the playing fields are situated in the park-lands near the Adelaide Oval, less than half a mile from the univ. The *students' representative council* is responsible for all other student activities associated with the union. Sec. of the union: H. Swales Smith.

**THE GRADUATES' UNION** is a constituent member of the univ. union. Hon. Sec.: L. N. Shaw, BEc Syd.

**RESIDENCE.** St. Mark's Coll. (accomm. about 105 men), fee for residence during term about £A225 p.a.; St. Ann's (about 70 women), about £A200 p.a.; Aquinas (about 90 men), about £A210 p.a.; Lincoln (about 100 men), about £A200 p.a. These colls. provide tutorial instrcn. for their students over a wide range of the subjs. taught in the univ.

**PUBLICATIONS.** *Calendar* (April), 7s. 6d.;

*Public Exams. Manual* (April), 7s. 6d.; *Regulations*, 2s.; *Syllabuses and Timetables*, 2s.; *Gazette* (quarterly, by Graduates' Union), 3d.; *Australian Journal of Experimental Biol. and Medical Sci.*, two-monthly, £A3 p.a.; *Joseph*

*Fisher Lecture in Commerce*, free; *Research Report* (June), free; *Proceedings of the Summer Schs. in Economics* (April), free. Student publicns.: *On Dit* (fortnightly), 1d.; *Science Journal* (annually), 2s.; *Engineering Journal* (annually), 2s.

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: bldg. for org. chem.; extensions to library; new wing at Waite Inst.

NEW CHAIR. Mathl stats.

RETIREMENTS. E. F. Lipsham (pharm.) Miss H. Gill (singing).

RESIGNATIONS. B. L. D. Coghlan (German)' apptd. to chair of German, N.E.; Prof. L. G. H. Huxley (phys.), apptd. to C.S.I.R.O.; J. P. Morgan (mining engin.), apptd. to chair of mining engin., N.S.W.; F. K. Maher (law), apptd. to Melb.; J. M. Grant (econ.), apptd. to chair of appl. econ., Tas.; H. V. Jenkins (agron.), apptd. to Syd.; J. W. McGarity (agric. chem.), apptd. to N.E.; B. Vocadlo (music).

DEATHS. Lady Napier (wife of chancellor); Prof. J. G. Wood (prof. of bot.); W. Oldham (former sr. lectr. in hist.); F. L. Winzor (former lectr. in chem.).

### Statistics

STUDENT NUMBERS, 1960  
(as at May 31, 1960)

	Full-Time	Part-Time	External
Men . . .	2427	1706	251
Women . .	895	674	80
Total	3322	2380	331

Distribution by Faculties, etc. *Agric. sci.*, 115; *archit.*, 79; *arts* (incl. educn.), 1922; *dent.*, 78; *econ.*, 357; *engin.*, 464; *law*, 150; *med.*, 546; *music* (degree & dipl.), 45; *music* (Elder Conservatorium), 339; *optometry*, 10; *pharm.*, 196; *phys. educn.*, 94; *physiotherapy*, 59; *pub. admin.*, 40; *sci.*, 975; *soc. studies*, 77; *technol.*, 487. Total: 6033.

*Included in the figures above are* :—

Students proceeding to higher degrees, 240.

New admissions, 1589.

Students from other countries, 293. (Countries from which largest numbers came: Fed. of Malaya, 132; Singapore, 81; Indonesia, 24; Hong Kong, 20).

DEGREES AWARDED (1959), excl. candidates admitted *ad eundem gradum*. *Agric.*: BAgSc, 14; BAgSc (hons.), 3; MAgSc, 5. *Arts*: BA, 48; BA (hons.), 22; MA, 1. *Dent.*: BDS, 6; MDS, 1. *Econ.*: BEc, 17; BEc (hons.), 2. *Engin.*: BE, 36; BE (hons.), 22; ME, 5. *Law*: LLB, 14. *Med.*: MB BS, 58; MD, 2. *Music*: MusBac, 4. *Sci.*: BSc, 69; BSc (hons.), 24; MSc, 8; DSc, 3. *Technol.*: BTech, 40. PhD (all facs.): 10. *Total number of bachelor degrees awarded*, 379.

DIPLOMAS AWARDED (1959). *Arts & educn.*, 83; *educn.*, 26; *music*, 2; *pharm.*, 33; *phys. educn.*, 4; *physiotherapy*, 1; *pub. admin.*, 3; *soc. sci.*, 9; *soc. studies*, 4.

# AUSTRALIAN NATIONAL UNIVERSITY\*

Founded 1946

Postal Address : Box 4, G.P.O., Canberra, A.C.T., Australia

Cables and Telegrams : Natuniv, Canberra

Telephone : Canberra J 0422

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REGISTRAR—R. A. HOHNEN, BEc *Syd.*

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BURSAR—W. S. HAMILTON, AAUQ, FASA

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Deputy Chairman of Institute and Dean, John Curtin School of Medical Research—  
Professor A. H. Ennor, DSc *Melb.*, FAA

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Blakley, R. L., PhD *N.Z.*

Fellow

Morrison, J. F., BSc *Syd.*, MSc *Q'ld.*,

DPhil *Oxon.*

Fellow

Rosenberg, H., BSc *Melb.*, PhD

Fellow

Magrath, D. I., MSc *Syd.*, PhD *Camb.*

Res. Fellow

Lascelles, A. K., BVSc *Syd.*

Res. Fellow

Woolley, G., PhD *W.Aust.*

Res. Fellow

##### Medical Chemistry

Albert, A., BSc *Syd.*, PhD DSc *Lond.*,

FRIC, FAA

Prof.

Brown, D. J., MSc *Syd.*, PhD *Lond.*

Sr. Fellow

Perrin, D. D., MSc *N.Z.*, PhD *Lond.*

Sr. Fellow

Spinner, E., MScTech PhD *Manc.*

Sr. Res. Fellow

Fildes, Joyce E., BSc *Syd.*, PhD *Birm.*

Res. Fellow

Armarego, W. L. F., PhD *Lond.*

Res. Fellow

Evans, R. F., DPhil *Oxon.*

Res. Fellow

Barlin, G. B., MSc *Syd.*, PhD

Res. Fellow

##### Microbiology

Fenner, F. J., MBE, MD *Adel.*, DTM *Syd.*,

FRACP, FAA, FRS

Prof.

Fazekas de St. Groth, S. N. E. E., MD

ChB ScM *Bud.*, FAA

(Virol.) Reader

Cairns, H. J. F., MA MD *Oxon.*

Sr. Fellow

Joklik, W. K., MSc *Syd.*, DPhil *Oxon.*

Fellow

Mims, C. A. C., BSc MB BS *Lond.*

Fellow

##### Biological Inorganic Chemistry Unit

Dwyer, F. P., DSc *Syd.*

Reader

Sargeson, A. M., PhD *Syd.*

Fellow

##### Experimental Pathology

Courtice, F. C., MA DPhil *Oxon.*, DSc *Syd.*,

Hon. FRACS, FAA

Prof.

Mackanness, G. B., MB BS *Syd.*, MA

DPhil *Oxon.*, DCP *Lond.*

Reader

Morris, B., BVSc *Syd.*, DPhil *Oxon.*

Sr. Fellow

Boydén, S. V., BSc(VetSci) *Lond.*,

PhD *Camb.*

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## AUSTRALIA

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Woodroffe, Gwendolyn M., MSc *Adel.*  
 Res. Fellow

Lehmann-Grube, F., DrMed *Hamburg*  
 Res. Fellow

Lowther, D. M., BSc *Leeds*, PhD *Lond.*  
 Res. Fellow

**Physical Biochemistry**

Ogston, A. G., MA DPhil *Oxon.*, FRS Prof.  
 McKenzie, H. A., MSc PhD *Syd.* Sr. Fellow

Taylor, M. C., BSc *Tas.*  
 Fellow, Electron Microscopist

Veterinary Officer: Whitten, W. K., BSc BVSc *Syd.*

Preston, B. N., PhD *Birm.*

Res. Fellow

**Physiology**

Eccles, Sir John C., MB BS *Melb.*, MA DPhil  
*Oxon.*, FRSNZ, FRACP, FAA, FRS Prof.

Macfarlane, W. V., MA MD *N.Z.* Reader  
 Curtis, D. R., MB BS *Melb.*, PhD Sr. Fellow

Coombs, J. S., MSc *N.Z.* Fellow  
 McDonald, I. R., MD *Melb.* Sr. Res. Fellow

Eccles, Rosamond M., MSc *N.Z.*, PhD  
 Res. Fellow

Watkins, J. C., MSc *W.Aust.*, PhD *Camb.*  
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Reader, Dep. Dir. (Admin.)  
 Gascoigne, S. C. B., MSc *N.Z.*, PhD *Brist.*

Reader, Asst. Dir. (Res.)  
 Dunham, T., MD *Corn.*, PhD *Prin.* Reader  
 Abraham, H. J. M., MSc *N.Z.*

Hd. of Time Service, Sr. Fellow  
 Buscombe, W., MA *Tor.*, PhD *Prin.* Sr. Fellow

Gollnow, H. R. F., DrPhil *Berl.* Fellow  
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 Rodgers, A. W., BSc *Syd.*, PhD Res. Fellow

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 PhD *Camb.* Reader

Joplin, Germaine A., BA DSc *Syd.*,  
 PhD *Camb.* Sr. Fellow

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Berry, H., MScTech *Manc.*  
 Chemist, Sr. Fellow

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 Richards, J. R., MSc *Melb.*, PhD *Durb.*

Fellow  
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Fellow  
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 Doyle, H. A., BSc *Syd.* Res. Fellow

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 FAA Prof.

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Treacy, P. B., MSc *Syd.*, PhD *Camb.*

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Sr. Res. Engineer, Sr. Fellow  
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 Carden, P. O., BE *Q'ld.* Res. Engineer, Fellow

Johnson, H., BSc *Manc.* Res. Engineer, Fellow  
 Marshall, R. A., BSc BE *N.Z.*, SM *Harv.*

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(Econ. Theory) Reader  
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Pappe, H. O., DrJur *Bres.* Res. Fellow

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(Soc. Geog.) Reader  
Walker, D., PhD *Camb.* (Biogeog.) Reader  
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PhD *N.Z.* Res. Fellow

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Brissenden, Rosemary L., BA *Melb.* Res. Fellow

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Maude, H. E., OBE, MA *Camb.* Sr. Fellow  
West, F. J., BA *Leeds*, PhD *Leeds & Camb.*  
Sr. Res. Fellow  
Feith, H., MA *Melb.* Res. Fellow

## SCHOOL OF GENERAL STUDIES

[†=Part-Time]

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 Registrar—T. M. Owen, BCom *Melb.*, FASA

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Pryor, L. D., DSc *Adel.* Prof.  
 Paton, D. M., BSc PhD *Tas.* Sr. Lectr.  
 Brittain, E. G., BSc PhD *Melb.* Lectr.  
 3 Lectrs.†, 1 Demr.†

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Hambly, A. N., MSc DipEd *Melb.* Prof.  
 Bradbury, J. H., MSc *Melb.*, PhD *Birm.* Sr. Lectr.  
 Crow, W. D., MSc *Syd.*, PhD *Sheff.* Sr. Lectr.  
 Hawes, I. L., BSc *New Mexico Minn. Inst.* Lectr.  
 1 Res. Asst., 2 Demrs.†

**Chinese**, see Oriental Studies**Classics**

Masterman, K. C., BA *Tas.*, MA *Oxon.* Assoc. Prof.  
 Burge, E. L., BA *Q'ld. & Oxon.* Lectr.  
 Dyer, R. R., MA *N.Z.* Lectr.  
 Palmer, D. W., BA *Melb.* Temp. Lectr.  
 1 Lectr.†

**Economic History**

Tucker, G. S. L., BCom *Melb.*, PhD *Camb.* Prof., Hd. of Dept.  
 Burton, H., BA *Q'ld.*, MA *Oxon. & Melb.* Prof.  
 Forster, C., BCom *Melb.*, PhD Lectr.  
 1 Lectr.†

**Economics and Commerce**

Arndt, H. W., MA BLat *Oxon.* Prof., Hd. of Dept.  
 Cameron, B. D., PhD *Camb.*, MEd *Syd.* (Appl. E.) Prof.  
 Hieser, R. O., MEd *Adel.*, PhD, FASA Sr. Lectr.  
 Rose, A. J., MA *N.Z.* Sr. Lectr.  
 Head, J. G., BEc *Adel.*, BPhil *Oxon.* Lectr.  
 Neutze, G. M., MagrSc *N.Z.* Lectr.  
 Sloane, K., BEc *Q'ld.* Lectr.  
 2 Res. Assts., 4 Lectrs.†, 2 Tutor†

**English**

Hope, A. D., BA *Syd. & Oxon.* Prof.  
 Moore, T. I., OBE, BA *Syd.*, MA *Oxon.* (Aust. Lit.) Assoc. Prof.  
 Brissenden, R. F., MA *Syd.*, PhD *Leeds* Sr. Lectr.  
 Johnston, G. K. W., MA *N.Z.*, BA *Oxon.* Sr. Lectr.  
 Hewitt, Mrs. A. Hope, MA *Syd.*, BCom *Melb.* Lectr.  
 Jones, E. L., MA *Melb.* Lectr.

**French**, see Mod. Langs.**Geology**

Brown, D. A., MSc *N.Z.*, DIC, PhD *Lond.* Prof.  
 White, A. J. R., BSc *Adel.*, PhD *Lond.* Sr. Lectr.  
 Chappell, B. W., BSc *N.E.* Lectr.  
 Crook, K. A. W., MSc *Syd.*, PhD *N.E.* Lectr.  
 1 Demr.†

**German**, see Mod. Langs.**History**

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 Baker, D. W. A., MA *Melb.* Sr. Lectr.  
 Fry, E. C., BA BEc *Syd.*, PhD Sr. Lectr.  
 Suttor, T. L. L., MA *Syd.*, PhD Lectr.  
 1 Res. Asst., 1 Tutor†

**Indonesian**, see Oriental Studies**Japanese**, see Oriental Studies**Law**

Ford, H. A. J., LLM *Melb.*, SJD *Harv.* Robt. Garran Prof.  
 Richardson, J. E., BA LLM *Melb.* (Pub. L.) Prof.  
 Biggs, J. M., LLB PhD *Lond.* Sr. Lectr.  
 Smith, D. W., BCom LLB *Melb.* (Indust. Relns.) Sr. Lectr.  
 Sutton, K. C. T., BA LLM *N.Z.*, PhD *Melb.* Sr. Lectr.  
 Tarlo, H., BA LLB *Dub.* Sr. Lectr.  
 2 Lectrs.†

**Mathematics**

Drummond, J. E., MSc *N.Z.*, BA *Camb.* Prof.  
 Miller, J. B., BSc *Syd.*, MA *Camb.*, PhD *N.E.* Sr. Lectr.  
 van der Borgh, R., DSc *Louvain* Sr. Lectr.  
 Billigheimer, C. E., MA BSc *Melb.* Lectr.

**Modern Languages**

Scales, D. P., BA *Syd.*, DU *Paris* (French) Prof.  
 Koch-Emmery, E. K. T., MA *Adel. & Melb.*, PhD *Vienna & Rome* (German) Assoc. Prof.  
 Rigby, T. H. R., MA *Melb.*, PhD *Lond.* (Russian) Sr. Lectr.  
 . . . . . (German) Lectr.  
 Ireland, P. R., BA *Camb.* (Russian) Lectr.  
 Mahony, Margaret J., MA *Melb.* (German) Lectr.  
 Raynaud, J.-Cl., LèsL *Lond* Dipl'd'ÉtSup (French) Lectr.  
*Aix-Marseille*

Sinclair, K. V., MA *N.Z.*, DPhil *Oxon.*,  
Dipl *Inst.dePhon.,Paris*, LèsLDU  
*Paris* (French) Lectr.  
Gapanovich, J. J., BA CHist *St.Petersburg*  
(Russian) Temp. Lectr.  
2 Lectrs.†, 2 Tutors†

### Oriental Studies

Bielenstein, H., FilDr *Stockholm* (Chinese) Prof.  
Ackroyd, Joyce I., BA DipEd *Syd.*,  
PhD *Camb.* (Japanese) Assoc. Prof.  
van der Sprenkel, O. P. N. B., BSc(Econ) *Lond.*  
(Oriental Civilization) Assoc. Prof.  
Johns, A. H., BA PhD *Lond.*  
(Indonesian & Malay) Sr. Lectr.  
Malmqvist, N. G. D., FilDr *Stockholm*  
(Chinese) Sr. Lectr.  
Wang, L., BA *Natul.Central(Nanking)*,  
PhD *Camb.* (Chinese) Sr. Lectr.  
..... (Japanese) Sr. Lectr.  
de Rachewiltz, I., DipOrInst *Naples* Lectr.  
Ito, T., MA *Keio* (Japanese) Temp. Sr. Tutor  
Dyer, Mrs. Svetlana Temp. Sr. Tutor  
1 Res. Asst., 2 Tutors†

### Philosophy

Baier, K. E. M., MA *Melb.*, DPhil *Oxon.* Prof.  
Gibson, Q. B., BA *Melb.*, MA *Oxon.* Assoc. Prof.  
Benjamin, B. S., BA *Melb.*, BPhil *Oxon.*  
Sr. Lectr.  
Schlesinger, G., BSc *Lond.* Lectr.  
1 Tutor†

### Physics

Dunbar, D. N. F., MSc *N.Z.*, PhD *Melb.* Prof.  
Brown, L. O., MSc *N.Z.*, PhD *Edin.* Sr. Lectr.  
Mortlock, A. J., MSc *Syd.*, PhD *R'dg.* Sr. Lectr.  
Williams, J. F., BSc *N.E.* Sr. Demr.  
1 Demr.†

### Political Science

Crisp, L. F., MA *Oxon. & Adel.* Prof.  
Beddie, B. D., BA *Syd.* Sr. Lectr.  
Corbett, D. C., MA *Tor.*, PhD *McG.* Sr. Lectr.  
Encel, S., MA PhD *Melb.* Sr. Lectr.  
Holgate, Mrs. Katharine O., BA *Melb.* Lectr.  
1 Lectr.†

### Psychology

Gibb, C. A., MA BEc *Syd.*, PhD *Ill.* Prof.  
Pentony, P., MA *W.Aust.* Assoc. Prof.  
Seagrim, G. N., BA *Lond.*, MSc *Melb.* Sr. Lectr.  
Cox, F. N., MA *Melb.*, MS *Yale* Lectr.  
Middleton, Margaret R., MA *Melb.* Lectr.  
Taylor, D. M., BA *Oxon.* Lectr.  
1 Res. Asst., 1 Demr.

### Russian, sec Mod. Langs.

### Statistics

Hannan, E. J., BCom *Melb.*, PhD Prof.  
Leser, C. E. V., MSc(Econ) *Lond.*,  
DPhil *Zür.* Sr. Lectr.  
Ewens, W. J., MA *Melb.* Lectr.  
1 Lectr.†

### Zoology

Smyth, J. D., BA BSc PhD *Dub.* Prof.  
Nicholas, W. L., BSc PhD *Liv.* Sr. Lectr.  
Barwick, R. E., MSc *N.Z.* Lectr.  
Weatherley, A. H., BSc *Syd.*, MSc *Tas.* Lectr.  
1 Res. Asst.

### ADULT EDUCATION

Crew, B. H., BA DipEd *Q'ld.*  
Resident Staff Tutor

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : D. K. R. Hodgkin, BSc(Econ)  
*Lond.* Dep. Librarian : N. Stockdale, BA *Melb.*  
Librarian (Sch. of General Studies) : Clare  
Campbell-Smith, BA DipEd *Tas.* Asst. Registrar  
(Pub. Relns.) : G. A. B. Docker, MA *Oxon.*  
Asst. Registrar (Sch. of General Studies) : C. G.  
Plowman, BEc *Syd.* Sr. Grad. Asst. : E. P.  
Thomas, BSc(Econ) *Lond.* Student Adminis-  
trator (Sch. of General Studies) : T. J. Keith.  
Accountant : J. Ryan, BCom *Q'ld.* Asst. Account-  
tant : Lois A. Bellingham, BCom *Q'ld.* Accounting

Officer : P. W. Brett. Univ. Architect : B. A. J.  
Litchfield, FRAIA. Lab. Manager (Phys. Scis.) :  
A. A. Robertson, BE *Adel.* Business Manager  
(Med. Res.) : W. H. Goddard. Technical Manager  
(Med. Res.) : J. B. Wight. Student Counsellor :  
Assoc. Prof. P. Pentony, MA *W.Aust.* Student  
Advisers : R. F. Brissenden, MA *Syd.*, PhD *Leeds* ;  
C. Forster, BCom *Melb.*, PhD ; W. I. Nicholas,  
BSc PhD *Liv.* Warden of Hall of Residence :  
W. P. Packard, MA *N.Z.*

## GENERAL INFORMATION

The Australian National Univ. was founded by  
an act of parliament of the Commonwealth of  
Australia in 1946. The act provided for the  
establishment in Canberra of a univ. consisting of  
a council and convocation, and grad. and under-  
grad. members. The prime function of the univ.

was to undertake postgrad. res., incl. the trg. of  
grad. students. No undergrad. members were  
enrolled until 1960 when, by amending legislation  
to the act, the Canberra Univ. Coll. became part  
of the univ. Canberra Univ. Coll. was establd. in  
1929 by an ordinance of parliament as a teaching



instn. whose undergrad. members were prepared for degrees of the Univ. of Melbourne. The emphasis on res. is maintained under the new organization, the former work of the univ. being continued in the Inst. of Advanced Studies while the work of the coll. in teaching and res. is continued in the Sch. of General Studies. The resources of the univ., whilst serving the rapidly growing needs of Canberra, will be developed to make a univ. which will be national at all levels.

**CONSTITUTION.** The council, on the incorporation of the coll., was enlarged from not more than 30 members to not more than 38 incl. the vice-chancellor, 4 members elected by parliament, up to 12 apptd. by the governor-general, up to 4 elected by convocation, 8 elected by the academic staff (of whom 2 will be dirs. of research schs. and 2 deans of facs.), and 2 by students. The sr. academic bodies are the bds. of the inst. and of the sch.; there is also a professorial bd. which includes all full profs. in the univ. and which is advisory and does not meet regularly. The bd. of the Inst. of Advanced Studies is responsible to council for matters relating to doctoral degrees and the bd. of the Sch. of General Studies for matters relating to the degrees of bachelor and master. Candidates for doctoral degrees are, however, supervised by members of either the inst. or the sch. as is appropriate. Convocation will eventually consist mainly of the council and grads. of the univ., but at the outset the opportunity was taken to add to it the chancellor and vice-chancellor and 5 other representatives of each other Australian univ. institution; following the amendment to the Australian National Univ. Act in 1960 further names have been added to convocation (in addition to all former members of council of the Canberra Univ. Coll., members of staff, and grads. of 3 yrs.' standing who obtained a degree through the Coll.) including members of parliament who have degrees and members of learned societies.

**INCOME (1959).** Running expenses of *Inst.*: £A1,580,548 (commonwealth govt. grants, 96·3 per cent.; rentals, 3·3 per cent.; fees and sundries, 0·4 per cent.). Commonwealth govt. grants for capital works, £A731,350. *Sch.* (1959): £A465,650 (commonwealth govt. grants, 91 per cent.; fees, 5 per cent.; other, 4 per cent.).

**UNIVERSITY PRECINCT.** The univ. site consists of 370 acres of well-situated land in the Canberra district of Acton. The first permanent bldg. erected was the lab. of the Res. Sch. of Phys. Scis. University House, which provides collegiate accomm. for about 130 single staff members and grad. students, was opened in 1954. The permanent labs. for the John Curtin Sch. of Med. Res. were completed in 1956, and a start has been made with the res. library bldg. Plans are in hand for a permanent bldg. for the Res. Schs. of Soc. Scis. and Pacific Studies. In 1956 Mount Stromlo observatory was transferred from the Commonwealth to the univ. and is now the dept. of astron. The observatory is 9 miles from the

city. Up to 1960 the Canberra Univ. Coll. was housed in temp. quarters. The coll. occupied its first permanent bldg. in June 1960, to accommodate arts depts. and a phys. bldg. and a hall of residence planned by the coll. are expected to be ready early in 1961 for the Sch. of General Studies. Tenders for a chem. bldg. will be called for shortly; bldgs. for bot., geol. and zool. were at the design stage in 1960.

**LIBRARIES.** Inst. libr.: 130,000 bound vols., and about 24,500 vols. in oriental collection. General studies libr.: 68,000 vols. incl. oriental collection of 21,000 vols.

**INSTITUTE OF ADVANCED STUDIES.** As was contemplated by the act of 1946, the univ.'s activities were in the first instance concentrated on the 4 res. schs. named in the act—the John Curtin Sch. of Med. Res. (named after Australia's war-time prime minister), and Res. Schs. of Phys. Scis., Soc. Scis. and Pacific Studies. It is intended that each sch. should be led by a dir., but the responsibility for the organization of the work of particular depts. within the schs. will rest with their professorial hds. Dirs. have been apptd. in 3 schs., but in the John Curtin Sch. of Med. Res. a dean is apptd. In addition to the dirs. and profs. the staff comprises permanent readers, sr. fellows and fellows, and short-term sr. res. fellows and res. fellows. The univ. seeks to provide members of staff with the most favourable conditions for res. They have their whole time available for res., their teaching and admin. duties being of a quite minor kind. They have opportunities to move about among their colleagues in Australia and the permanent staff has generous provision for study leave.

**THE SCHOOL OF GENERAL STUDIES** is largely concerned (apart from the res. interests of its staff) with undergrad. teaching, although the staff, together with the staff of the inst., supervises students for higher degrees. There are four facs.—arts, econ., law and sci.—each with a dean and a fac. bd. Within the fac. of arts there is a sch. of oriental studies which provides courses in the Bahasa Indonesia, Chinese and Japanese langs., and in oriental civilization.

**ADMISSION AND DEGREES.** Each dept. of the res. schs. of the *inst.* accepts a small no. of grad. res. students of first-class calibre, the general minimum entrance qualif. being a good hons. degree from a recognized univ. and evidence of capacity for res. Each student is assigned to a supervisor and pursues a course of res. under supervision. Subject to certain conditions, the student may proceed to the PhD degree (normally after 3 yrs.' work) or an MA or MSc (usually after 2 yrs.' work). The univ. also confers the degrees of DLitt, DSc and LLD for distinguished work in appropriate fields published by persons with a real connection with the univ.

For admission to the *sch.*, see Appendix II.

Non-members of the univ. may, at the discretion of the hd. of the appropriate dept. in the

Sch. of General Studies, be admitted to ord. lectures at a reduced fee which does not admit to exam.

**FIRST DEGREES.** 3 yrs.—BA pass (4th yr. for hon.), BEc pass (4th yr. for hon.), BSc pass (4th yr. for hon.); 4 yrs.—LLB (pass or hon.). First degrees, except sci., can be taken on the basis of pt.-time attendance at the sch.

**HIGHER DEGREES.** MA, MEc, LL.M, MSc (2 yrs., exam. and thesis for pass grads.; 1 yr., and thesis for hon. grads.). For PhD, see above.

The univ. does not award EXTERNAL DEGREES.

**STUDY LEAVE.** Profs. of the inst. may take a yr.'s study leave with full salary in each 4 yrs. of service, readers and sr. fellows in each 6 yrs. of service and fellows in each 7 yrs. of service. Substantial travel allowances granted. In the sch., full-time members of academic staff are eligible for 1 yr. on full pay after 6 yrs.' service. The sch. also has a scheme of financial assistance towards study leave.

**FEES.** *Inst.*: £A52:10s. (covers all charges except board and residence). *Sch.*: matric. fee, £A2:2s. Degree courses (per unit): arts and econ. subjs., £A21; law subjs., £A11:5s. to £A21; sci. subjs., £A22:10s. (1st yr.), £A36 (2nd yr.), £A48 (3rd yr., except chem. and phys., £A96).

**ACADEMIC YEAR.** Early March to early Dec.; 3 terms of 10, 9 and 14 wks. (*Inst.*); 4 terms of 10, 9, 6 and 6 wks. (*Sch.*)

**ADULT EDUCATION.** In the Sch. of General Studies a dept. of adult educn. was introduced in 1959. The staff tutor also organizes adult educn. activities in southern New South Wales in assocn. with the dept. of tutorial classes, Univ. of Sydney. Resident Staff Tutor: B. H. Crew, BA DipEd Q'ld.

## THE YEAR 1959

**HONORARY DEGREES.** LL.D—C. E. W. Bean, archives authority, author and editor of first Australian War Hist. D.Sc—Sir Leslie Martin, then prof. of phys., Melb.

### Institute

**NEW DEPARTMENTS AND CHAIRS.** Dept. & chair of econ. in Sch. of Pacific Studies.

**RESIGNATIONS.** Lord Lindsay of Birker (internat. relns.), apptd. prof. of internat. relns., American Univ., Washington; J. S. Bastin (Pacific hist.), apptd. prof. of hist., Malaya (Kuala Lumpur div.).

### School

**RESIGNATIONS.** Prof. J. G. Fleming (law), apptd. to professorship in law, Calif. (Berkeley); L. F. E. Goldie (law), apptd. visiting lectr. in pol. sci. dept., Calif. (Los Angeles); Prof. F. V. Atkinson (maths.), apptd. prof. of maths., Tor.

**SCHOLARSHIPS.** The univ. offers a no. of scholps. in the inst. annually to support specially able students working for the PhD in the univ. Emoluments vary according to scholar's circumstances, but present basic rate is £A925 p.a. Students with appropriate medical qualifs. receive £A1347 p.a. Addnl. discretionary allowances may be paid to married scholars with children.

The univ. from time to time issues invitations to distinguished sr. scholars to visit Australia; such visitors undertake their own work, lecture and lead seminars with interested people not only in Canberra but in the other Australian univs.

Principal open awards for study in the sch.: oriental studies scholps. for Australian students preparing for first degree or who have a degree but wish to pursue oriental studies in the sch. at undergrad. level. Commonwealth Scholps. (see p. 12) and New South Wales teacher trg. scholps. also tenable in the sch.

**RESIDENCE.** Students of the *Inst.* are normally required to live in University House, and married students within easy access of univ. precincts. Fees range from £A8:18s.:6d. to £A11:11s. (married couple, £A17:17s.) per wk. according to type of accomm. Master of University House: Prof. A. D. Trendall, MA Camb., LittD N.Z., Hon. LittD Melb., Hon. DLitt Adel., FSA.

In the *Sch.* the first hall of residence to accomm. 160 students (117 men, 43 women) is expected to be ready for occupation in Jan. 1961. Accommm. for students also available in a hostel, admission to which is controlled by the sch. Fees, £A6:5s.:6d. per wk. Lodgings also available.

**PUBLICATIONS.** *Calendar*, 12s. 6d.; *Annual Report*, 4s.; *A.N.U. News* (free), every few months; *Prometheus* (students' mag.), annual, 5s.; *Woroni* (students' newspaper), fortnightly each term; *Inaugural Lectures*; *Commonwealth Literary Fund Lectures*; *Morrison Oration*.

## Statistics

### STUDENT NUMBERS, 1960

#### Institute

Men, 114; women, 12. Total, 126.  
All were full-time postgraduate students.

These figures include students from other countries (19 from N.Z.; 21 from U.K.).

#### School

	Full-Time	Part-Time
Men . . .	133	505
Women . . .	95	106
Total	228	611

Distribution by Fields of Study. *Arts*, 376; *econ.*, 310; *educn.*, 1; *law*, 56; *sci.*, 96. Total: 839.

## AUSTRALIA

*Included in the figures above are :—*

Postgraduate students, 35.

New admissions, 334.

Students from other countries, 17. (Country from which largest number came : U.S.A., 5).

*Not included above are* 39 non-exam. and sp. course students.

DEGREES AWARDED (1959). John Curtin Sch. of Med. Res. : PhD, 1 ; MSc, 1. Res. Sch. of

Phys. Scis. : PhD, 4. Res. Sch. of Soc. Scis. : PhD, 6. Res. Sch. of Pacific Studies : PhD, 3.

Degrees of Univ. of Melbourne awarded to students at Canberra Univ. Coll. : *Arts* : BA, 11. *Comm.* : BCom, 5 ; MCom, 1. *Educn.* : BEd, 1. *Law* : LLB, 3. *Total number of first degrees awarded*, 20.

DIPLOMAS AWARDED (by Univ. of Melbourne) (1959). DipPubAdmin, 2.

# CANBERRA UNIVERSITY COLLEGE

*With effect from 1960, Canberra University College has become part of the Australian National University (see p. 31). The functions carried out in the college up to 1960 will continue to be undertaken in the Australian National University.*

# UNIVERSITY OF MELBOURNE\*

Founded and incorporated 1853

Postal Address : Parkville, N.2, Victoria, Australia

Cables and Telegrams : Melbourne University, Parkville, Victoria

Telephone : Melbourne, 34 0484

VISITOR—H.E. THE GOVERNOR OF VICTORIA, Sir DALLAS BROOKS, KCB, KCMG, KCVO, DSO, Hon. LLD

CHANCELLOR—Hon. Mr. Justice A. DEAN, LL.M

DEPUTY-CHANCELLOR—C. M. GILRAY, OBE, MC, BA N.Z., MA Oxon & Melb., Hon. LLD

VICE-CHANCELLOR—Professor Sir GEORGE W. PATON, LLD Glas. & Syd., DCL W.Ont., BA BCL Oxon., MA

PRO-VICE-CHANCELLORS—Professor Sir ARTHUR AMIES, CMG, DDSc DLO, FRCSEd, FRACS, FDSRCS, FDSRCSed, FACD ; Professor E. S. HILLS, DIC, PhD Lond., DSc, FAA, FRS

REGISTRAR—FRANK HORACE JOHNSTON, BA BCom, JP

DEAN OF GRADUATE STUDIES—J. S. ROGERS, MC, BA DSc DipEd, FIP

ACCOUNTANT—R. A. CUMMING, BCom

ASSISTANT REGISTRAR—A. J. G. WILLIAMS, BArch

ACADEMIC SECRETARY—J. C. WOODHOUSE, BA Syd.

OFFICER-IN-CHARGE, SCIENTIFIC, MEDICAL AND TECHNICAL BRANCH—F. G. ELFORD, BSc BEd

LIBRARIAN—K. A. LODWYCKS, BA

## TEACHING STAFF

[† Part-Time]

### Accountancy

Goldberg, L., BA MCom, FASA Prof.  
 Johnston, T. R., PhD Camb., LL.M BCom N.Z. Reader  
 Kerr, Jean St. G., MSc Col., BCom Sr. Lectr.  
 Kay, R. M., BCom N.Z., FRANZ Sr. Lectr.  
 Samek, R. A., MA MLitt LL.B Camb., MCom (Comm. Law) Sr. Lectr.  
 Voumard, L. C., BA LL.B (Comm. Law) Sr. Lectr.  
 McMahon, B. J., BCom Lectr.  
 Jager, M. O., BCom Lectr.  
 27 Officers†

### Agriculture, see also Bot.

Forster, H. C., PhD Iowa, MAgrSc Prof.  
 Leeper, G. W., MSc Assoc. Prof.  
 Tribe, D. E., BSc(Agric) R'dg., PhD Aberd. (Physiol. of Domestic Animals) Reader  
 Hird, F. J. R., PhD Camb., MAgrSc (Agric. Biochem.) Reader  
 Vasey, G. H., BCE (Agric. Engin.) Sr. Lectr.  
 Aitken, Yvonne, MAgrSc Sr. Lectr.  
 Tulloh, N. M., MAgrSc (Animal Husb.) Sr. Lectr.  
 Wilson, J. H., PhD Lond., BAgrSc Sr. Lectr.  
 Lloyd, A. G., BEc Syd. (Agric. Econ.) Sr. Lectr.

Presser, H. A., BA (Rural Sociol.) Sr. Lectr.  
 Smith, D. F., BAgrSc Adel. Lectr.  
 Briner, G. P., BSc W.Aust., MSc N.E., PhD (Agric. Chem.) Lectr.  
 Dettman, Margaret, MSc Lond., BAgrSc Sr. Demr.  
 20 Officers†

### Anatomy

Sunderland, S., MD BS DSc, FRACS, FRACP, FAA Prof.  
 Russell, K. F., MB MS, FRACS Reader in Med. Hist., Assoc. Prof.  
 Ray, L. J., MB BS PhD Assoc. Prof.  
 Lavarack, J. O., MB BS PhD (Embryol. & Histol.) Reader  
 Roche, A. F., MB BS PhD Sr. Lectr.  
 Kenny, G. C. T., MB BS Q'ld. Sr. Lectr.  
 Merrillees, N. C. R., MB BS (Embryol. & Histol.) Sr. Lectr.  
 Dunlop, C. W., MSc Adel., PhD (Embryol. & Histol.) Sr. Lectr.

### Anthropology

Thomson, D. F. F., OBE, PhD Camb., DipAnthrop Camb. & Syd., DSc Univ. Res. Fellow

\* Member of the Association of Universities of the British Commonwealth

**Architecture**

- Lewis, B. B., MA(Arch) *Liv.*, PhD *Lond.*,  
BArch, FRIBA, FRAIA Prof.  
Berg, R., DipArchDes, FRAIA Sr. Lectr.  
Waugh, H. L., BArch, FRAIA Sr. Lectr.  
Janeba, F. A., DegArch *Vienna*, MArch Sr. Lectr.  
Parker, R. G., DipArch *Liv.*, FRIBA,  
FRAIA Sr. Lectr.  
Hammerschmidt, C. A. C., DegArch *Copen-*  
*hagen* Sr. Lectr.  
Barton, D. C., BArch Sr. Lectr.  
Strizic, Z., DegArch *Berl.*, MArch  
Sr. Lectr.  
Morton, J. C., BArch Sr. Lectr.  
Saunders, D. A. L., BArch DipTRP Sr. Lectr.  
McDowall, I. C., MSc *N.Z.* Res. Fellow  
Alexandra, D. D., BArch Lectr.  
Goldcutt, E. B., MSc DipEd Lectr.  
Sami, B. S., BA *Panj.*, BArch Lectr.  
23 Lectrs.†

**Bacteriology**, see Medicine

**Biochemistry**

- Trukojs, V. M., DSc *Syd.*, DPhil *Oxon.*,  
MSc, FAA Prof.  
Rawlinson, W. A., MSc Assoc. Prof.  
Legge, J. W., MSc Reader  
Hud, F. J. R., PhD *Camb.*, MAgrSc  
(Agric. B.) Reader  
(Clin. B.) Sr. Lectr.  
Cahn, Mrs. Audrey J., BAgSc DipDiet  
(Nutrition & Appl. Dietetics) Sr. Lectr.  
Crabtree, Muriel G., MSc Lectr.  
McQuillan, Mary T., MSc PhD Lectr.  
Henderson, R. W., BSc Lectr.  
Mauginson, M. A., BSc Lectr.  
Stone, B. A., PhD *Lond.*, BSc Lectr.  
Todd, P. E. E., BSc Lectr.  
Birt, L. M., PhD BSc BAgSc Lectr.  
Finch, L. R., PhD BSc *W.Aust.* Lectr.  
Symons, R. H., BAgSc (Agric. B.) Sr. Demr.  
2 Officers†

**Botany and Plant Physiology**

- Turner, J. S., MA PhD *Camb.*, MSc, FAA Prof.  
Carr, D. J., BSc PhD *Manc.* Reader  
Carr, Mrs. Stella G. M., MSc Sr. Lectr.  
Blackwood, Margaret, PhD *Camb.*, MSc  
Sr. Lectr.  
Pateman, J. A. J., BSc PhD *Lond.* Sr. Lectr.  
Neales, T. F., MA *Oxon.*, PhD *Lond.* Sr. Lectr.  
Ducker, Sophie C., MSc Lectr.  
Thrower, L. B., MSc Lectr.  
Ashton, D. H., BSc PhD Lectr.  
Everson, R. G., BSc *Syd.* Sr. Demr.  
Gaff, D. F., MSc Sr. Demr.  
Thrower, Mrs. Stella L., BSc Demr.  
Duigan, Suzanne L., PhD *Camb.*, MSc  
Sr. Res. Officer  
Dettmann, Mary E., BSc Res. Officer

**Chemistry**

- Davies, W., DSc *Manc. & Melb.*,  
DPhil *Oxon.* (Org. C.) Prof.  
Cooke, R. G., MSc *Adel.* (Org. C.) Reader  
Duncan, J. F., BSc MA DPhil *Oxon.*  
(Radiochem.) Reader  
Senior Lecturers  
Buchanan, A. S., BSc PhD (Phys. C.)  
Anderson, J. R., BSc *N.S.W.U.T.*,  
PhD *Camb.* (Phys. C.)  
Stranks, D. R., MSc PhD (Phys. C.)  
Stephenson, Emily F. M., PhD *Glas.*,  
MSc (Org. C.)  
Johns, R. B., BSc *N.Z.*, PhD *Camb.* (Org. C.)  
O'Donnell, T. A., MSc PhD (Inorg. & Phys. C.)  
Fensham, P. J., PhD *Brist.*, MSc  
(Inorg. & Phys. C.)  
Lecturers  
Craig, R. A., MSc (Inorg. & Phys. C.)  
Radford, Joan T., BSc (Inorg. & Phys. C.)  
Spiro, M., MSc *N.Z.*, DPhil *Oxon.*  
(Inorg. & Phys. C.)  
Hyde, B. G., BSc *Brist.* (Phys. C.)  
Casey, A., BA *Manit.*, MSc *Br.Col.*,  
PhD *Camb.*

**Senior Demonstrators**

- Owen, W. R., MSc *Q'ld.*  
Middleton, S., BSc  
Changfoot, J., MSc *Rand*  
Humffray, A. A., BSc *Syd.*  
McKay, Maureen F., BSc *Syd.*

**Teaching Fellow**

- Baker, B. G., BSc

**Demonstrators**

- Sterns, Meta, MSc  
Wilks, W. D. J., BSc DipEd  
Thomas, F. G., MSc  
Robb, W., MSc *Rand*  
Heraud, Valda, BSc BED  
3 Res. Fellows, 1 Officer†

**Classical Studies**

- Hunt, H. A. K., MA *Oxon.*, BA *Syd.*,  
LittD DipEd Prof.  
Gellie, G. H., MA BED Reader  
Quinn, K. F., BA *N.Z.*, MA *Camb.* Sr. Lectr.  
Barbour, R. R. P., BA *Q'ld.*, MA *Oxon.* &  
*Melb.* Sr. Lectr.  
Johnson, R. St. C., MA DipEd *Syd.*  
(on leave) Lectr.  
McKay, K. J., MA Lectr.  
Martyn, J. R. C., BA *Camb.* Lectr.  
Titchener, J. B., AB PhD *Ill.*  
Visiting Fulbright Lectr.  
1 Officer†

**Commerce**

- Fryer, D. W., PhD MSc(Econ) *Lond.*,  
DipEd *Oxon.*, MCom Sr. Lectr.  
Bayne, Mary M., MA DipEd Sr. Lectr.

## AUSTRALIA

Corden, W. M., PhD *Lond.*, BCom Sr. Lectr.  
 Wilson, R. K., PhD *A.N.U.*, BA *N.Z.*  
     *MA Lond.* Lectr.  
 Woods, C. S., BCom Lectr.  
 Donath, E. J., MA *Vienna* Sr. Tutor  
 Pulver, S., PhD *Vienna* Sr. Tutor  
 2 Tutors, 7 Officers†

**Criminology**

Johnston, S. W., BA LLB Sr. Lectr.-in-Charge  
 Jeffrey, A. C., MB BS BSc Sr. Lectr.  
 Scroggie, J. G., MSc PhD Lectr.  
 Turner, Mrs. Cynthia J., BA *Adel.*,  
     DipSocStud Lectr.  
 5 Officers†

**Dental Science**, see below**Dutch**, see Germanic Langs.**Economic History**

Woodruff, W., MA DipEcon&PolSc *Oxon.*,  
     BSc(Econ) *Lond.*, PhD *Nott.*, MCom Prof.  
     ..... Reader  
 Dunsdorfs, E., DEc *Riga*, MA MCom Sr. Lectr.  
 Sinclair, W. A., DPhil *Oxon.*, MCom Lectr.  
 Clarkson, L. A., BA *Nott.* Lectr.  
 Killip, J. H., MA *St.And.* Lectr.  
 Macneil, I. P., BCom Tutor  
 Beever, E. A., BA *Oxon.* Res. Asst.  
 Blainey, G., MA Res. Asst.  
 2 Tutors†

**Economic Research**

Downing, R. I., DipEc *Camb.*, BA  
     ..... (on leave) Prof.  
 Little, A. J., BA *Nott.*, MCom Res. Officer  
 1 Res. Officer†

**Economics**

Prest, W., MA *Leeds*, MA(Com) *Manc.*,  
     MCom Prof.  
 Polglaze, Muriel J., MBE, MCom Assoc. Prof.  
 Davidson, F. G., MA *Camb.* Sr. Lectr.  
 Blakey, K. A., BA *N.Z.*, MSc(Econ) *Lond.*,  
     DPhil *Oxon.* Sr. Lectr.  
 Hunter, A., MA *Glas.* Sr. Lectr.  
 Boxer, A. H., BPhil *Oxon.*, BA Sr. Lectr.  
 Perkins, J. O. N., MA PhD *Camb.* Sr. Lectr.  
 Frearson, K. S., BA *W.Aust.* Lectr.  
 Harper, R. J. A., BCom Lectr.  
 Pitchford, J. D., MCom *Tas.*,  
     PhD *A.N.U.* Lectr.  
 Prowse, A. R. G., BCom Lectr.  
 Webb, L. R., BCom Actg. Lectr.  
 4 Tutors, 12 Officers†

**Education**

Frederick, W. H., Dipl *Cours de Civilisation*,  
     *Paris*, MA DipEd (on leave) Prof.  
 Aughterson, W. V., PhD *Lond.*, MA  
     DipEd Assoc. Prof.

French, E. L., BA BED PhD (on leave) Sr. Lectr.  
 Austin, A. G., MC, BA MEd Sr. Lectr.  
 Bradshaw, G. D., BA BSc DipEd *W.Aust.*  
     ..... Sr. Lectr.

Falk, Mrs. Barbara, MA DipEd *Oxon.* Sr. Lectr.  
 Esson, T. H., BA DipEd Sr. Lectr.  
 Cartwright, R. Lectr.  
 Olphert, W. R., MA DipEd *N.Z.* Lectr.  
 Hannah, Wilma D., MA BED Lectr.  
 Dow, Mrs. Gwyneth M., BA BED Lectr.  
 Wykes, Olive, MA MED (on leave) Lectr.  
 Curry, N. G., BA BED Lectr.  
 Anderson, D. S., MA Educn. Res. Officer  
 Battersby, Olive, BA Sr. Tutor, Librarian  
 Deasey, M. K., MA *Camb. & Melb.*,  
     Cert de Français *Paris*, DipEd Sr. Tutor  
 17 Officers†

**Engineering**, see below**English Language and Literature**

Maxwell, I. R., BLitt *Oxon.*, BA LLB Prof.  
 Macartney, K. L., MA *Camb.*, BA Assoc. Prof.  
 Scott, W. A. G., BLitt *Oxon.*, BA Reader  
 Jennings, Vera C., MA *Oxon. & Melb.* Sr. Lectr.  
 Dobson, T. P., BA *Camb. & Melb.* Sr. Lectr.  
 Goldberg, S. L., BLitt *Oxon.*, BA Sr. Lectr.  
 Tomlinson, T. B., BA *W.Aust. & Camb.*,  
     LLB *W.Aust.* (on leave) Lectr.  
 Tomlinson, Mrs. Mary T., BA (on leave) Lectr.  
 Dow, H., AB *Harv.* (Rhetoric) Lectr.  
 Buckley, V. T., MA  
     (Creative Writing & Aust. Lit.) Lockie  
     Fellow  
 Tennent, Amy G. C., MA DipEd Lectr.  
 Moody, A. D., BA *N.Z. & Oxon.* Lectr.  
 Cowling, Mrs. Muriel M., BA *Leeds*,  
     DipEd Sr. Tutor  
 Cubbon, Winifred M., MA Teacher's Dip  
     *Manc.* Sr. Tutor  
 7 Tutors

**Fine Arts**

Burke, J. T., OBE, MA *Lond.*, *Yale & Melb.* Prof.  
 Philipp, F. A., BA Sr. Lectr.  
 Smith, B. W., BA *Syd.*, PhD *A.N.U.* Sr. Lectr.  
 1 Tutor, 3 Officers†

**Forestry**

Chinner, J. H., BSc *Oxon. & Melb.*  
     ..... Reader-in-Charge  
 Leslie, A. J., BScF (For. Managemt.) Lectr.  
 Grose, R. J., BScF Res. Fellow  
 7 Officers†

**French**

Jackson, R. F., BA *Syd.*, MA Prof.  
 Canart, P. L. J. G., BA (Philol.) Sr. Lectr.  
 Laufer, R. M. A. (on leave) Sr. Lectr.  
 Lawler, J. R., DU*Paris*, MA Sr. Lectr.  
 McCormick, C. A., BA *Camb.*  
     ..... (Italian) Sr. Lectr.  
 Burger, Mrs. Claire H., MA Lectr.  
 Scott, S. J., MA PhD Lectr.

Herbert, A., *DUParis*, MA DipEd *Durh.* Lectr.  
 Just, F. P., *DUParis*, BA Lectr.  
 Holland, A. K., BA *Syd.*,  
     *Dipd'Et Bordeaux* Lectr.  
 Gundolf, Cordelia, DottLett *Rome*  
     (Italian) Lectr.  
 McPhee, Kathleen H., MA DipEd Sr. Tutor  
 Casey, T. R., MA DipEd Sr. Tutor  
 Ropert, M., LèsL (on leave) Sr. Tutor  
 2 Officers†, 1 Tutor

### Geography

Andrews, J., BA *Syd.*, PhD *Camb.*, MA Prof.  
 Wilcock, A. A., BSc BED Sr. Lectr.  
 Coghill, I. G., MA *Camb.*, BCom Lectr.  
 Double, K. W. W., MSc *Belf.* Lectr.  
 Wilson, M. G. A., MA *N.Z. & Wis.* Lectr.  
 Ryan, Julia M., BA *Syd.* Demr.  
 1 Officer†

### Geology and Mineralogy

Hills, E. S., DIC, PhD *Lond.*, DSc, FAA,  
     FRS Prof.  
 Tattam, C. M., PhD *Lond.*, ScD *Colorado*  
     *Sch. of Mines*, BSc Assoc. Prof.  
 Kerr Grant, C., BA *Camb.*, BSc *Adel.*  
     (Geophys.) Reader  
 Singleton, O. P., PhD *Camb.* Sr. Lectr.  
 Beavis, F. C., BSc Sr. Lectr.  
 Mathews, R. T., MSc *Q'ld.* Sr. Lectr.  
 McLaughlin, R. J. W., MSc *N.Z.*,  
     PhD *Camb.* Sr. Lectr.  
 Marsden, M., BSc Lectr.  
 Ollier, C. D., MSc *Brist.* Lectr.  
 Thomas, G. A., BSc Lectr.  
 Brown, M. C., BSc Sr. Demr.  
 Finlay, Cecily, BSc *Syd.* Res. Asst.  
 4 Demrs.

### Germanic Languages

Samuel, R. H., DrPhil *Berl.*, PhD *Camb.*,  
     MA Prof.  
 Coverlid, Dorothea R., MA DipEd Reader  
 Smit, J., LittD *Utrecht*, MA  
     (Dutch & Germanic Philol.) Reader  
 Wiemann, H., MA (German) Sr. Lectr.  
 Maclean, H., MA PhD DipEd  
     (German) Sr. Lectr.  
 Meijer, R. P., MA *Amst.* (Dutch) Sr. Lectr.  
 Ruff, Eva, MA (German) Lectr.  
 Schulz, G., PhD *Leip.* (German) Sr. Tutor  
 2 Tutors, 4 Officers†

### History

Crawford, R. M., BA *Syd.*, MA *Oxon.* &  
     *Melb.* Prof.  
 La Nauze, J. A., BA *W.Aust.*, MA *Oxon.*  
     & *Melb.* Ernest Scott Prof.  
 Fitzpatrick, Kathleen E., MA *Oxon.*, BA  
     Assoc. Prof.  
 Harper, N. D., MA BED (on leave) Assoc. Prof.  
 O'Brien, J. L., BA *Camb. & Syd.*, MA  
     (on leave) Sr. Lectr.

McBriar, A. M., DPhil *Oxon.*, BA Sr. Lectr.  
 Main, J. M., BLitt *Oxon.*, BA Sr. Lectr.  
 ..... Sr. Lectr.  
 Gibbs, Marion, BA BLitt *Oxon.* Sr. Lectr.  
 Gardiner, L. R., BA *Brist.* Sr. Lectr.  
 Mulvaney, D. J., BA *Camb.*, MA Sr. Lectr.  
 Gregory, J. S., PhD *Lond.*, MA Sr. Lectr.  
 Kennedy, D. E., PhD *Camb.*, MA Lectr.  
 Martin, A. W., PhD *A.N.U.*, MA *Syd.* Lectr.  
 Croydon, Marilyn M., BA Sr. Tutor  
 Clendinnen, Inga V., BA Sr. Tutor  
 9 Tutors, 1 Res. Asst., 10 Officers†

### History and Philosophy of Science

Dyason, Diana, MSc Sr. Lectr.-in-Charge  
 Clendinnen, F. J., BA Sr. Lectr.  
 Ellis, B. D., BA BSc *Adel.*, BPhil *Oxon.* Lectr.  
 Bryant, F., BA MSc Lectr.  
 Gasking, Mrs. Elizabeth B., BSc *Liv.*, MA  
     Lectr.  
 Trengove, L., BD MSc PhD *Lond.* Lectr.

### Indonesian and Malayan Studies

Mackie, J. A. C., MA *Oxon.*, BA  
     Sr. Lectr.-in-Charge  
 Zainu'ddin Lectr.

### Industrial Relations

Isaac, J. E., PhD *Lond.*, BCom  
     Reader-in-Charge  
 Davis, S. R., PhD *Lond.*, LLB *W.Aust.*  
     Temp. Sr. Res. Fellow  
 8 Officers†

### Languages (Science Courses)

Ilorwood, E. K., MA Sr. Lectr.-in-Charge  
 Rodgers, Anita H., LL.D. *Giessen* Lectr.  
 Zatorski, R. J., BA (Sci. Russian) Lectr.

### Law

Cowen, Z., MA BCL *Oxon.*, BA LL.M  
     (Public L.) Prof.  
 Derham, D. P., MBE, BA LL.M  
     (Jurispr.) Prof.  
 Donovan, F. P., BA BCL *Oxon.*, LL.B *Adel.*  
     & *Q'ld.*, LL.M (Comm. L.) Prof.  
 Turner, A. L., BA LL.M (Jurispr.) Reader  
 Ford H. A. J., SJD *Harv.*, LL.M Reader  
 Leyser, J., DJur *Freib.*, LL.B  
     (Compar. & Internat. L.) Reader  
 Brett, P. B., LL.B *Lond.*, LL.M *W.Aust.*  
     Sr. Lectr.  
 Downer, L. J., MA *Oxon.*, BA LL.B *Syd.*  
     Sr. Lectr.  
 Maher, F. K. H., MA LL.B  
     (on leave) Sr. Lectr.  
 Sharwood, R. L., LL.M *Calif.*, BA LL.B  
     Sr. Lectr.  
 Mendes da Costa, D., LL.B *Lond.* Sr. Lectr.  
 Waller, P. L., BCL *Oxon.*, LL.B Sr. Lectr.  
 Mackay, D. F., DPhil *Oxon.*, MA  
     (British Hist.-Law) Lectr.



Hinde, G. W., LL.M. N.Z.  
Pannam, C. L., LL.B.

Sr. Tutor  
Sr. Tutor

Special Lecturer

Phillips, P. D., QC, MA LL.B.

†Independent Lecturers

McInerney, M. V., QC, MA LL.M.

(Proced. & Evidence)

Young, J. McL., MA Oxon., LL.M.

(Company L.)

Newton, H. R., LL.M. (Executors & Trustees)

Norris, Rosemary A., LL.B. (Conveyancing)

Emmerson, K. A. M., BA LL.B. (Taxation)

Heymanson, A. H. B., BA LL.B.

(Professional Conduct)

Hogg, S. G., BCom LL.M. (Accounts)

Morrell, C. F. C., BA LL.M.

(Domestic Relations)

McGarvie, R. F., LL.B. (Contract) Actg. Lectr.

Dunn, R. H., LL.M. (Criminal Procedure)

13 Officers†

### Mathematics, Pure and Applied

Cherry, T. M., PhD ScD Camb., BA Camb.

& Melb., FAA, FR.S. (Appl. Maths.) Prof.

Love, E. R., PhD Camb., BA Camb. & Melb.

(Pure Maths.) Prof.

Behrend, F. A., PhD Berl., ScD Prague,

MA Assoc. Prof.

Brown, A., PhD Camb., MA Glas. Reader

Syer, F. J. D., MBE, BA DipEd Sr. Lectr.

Ryan, J. P., BA BSc Sr. Lectr.

Lester, Margaret, BA Sr. Lectr.

Moppert, C. F., DrPhil Basle Sr. Lectr.

Hutton, Mrs. Eleanor S., MA Camb.,

BSc W.Aust. Sr. Lectr.

Evans, I. A., MSc Q'ld., MA Camb. Sr. Lectr.

Barton, J. C., BA BSc Lectr.

Upton, C. J. F., BA Oxon., MA PhD Lectr.

Cumming, Betty, MA Actg. Lectr.

Greig, Mrs. Dulcie J., BSc W.Aust. Sr. Tutor

Davis, A. W., BA Sr. Tutor

Asche, D. S., BA Sr. Tutor

Baker, H. K., MA Sr. Tutor

Pownall, Elizabeth, BA MSc DipEd Sr. Tutor

1 Tutor, 1 Officer†

### Medicine, see below

### Metallurgical Research

Greenwood, J. N., DSc Manc. & Melb.,

MMetE Prof.

### Metallurgy, see Engineering, below

### Meteorology

Loewe, F., PhD Berl.

Sr. Lectr.-in-Charge (Commonwealth)

Radok, U., BMEchEng Munich, PhD Sr. Lectr.

1 Res. Asst.

### Microscopy

Matthaei, E. A. F. Officer-in-Charge of Lab  
1 Demr.

### Mineralogy, see Geol.

### Mining, see Engineering, below

### Music

Loughlin, G. F., DMus Dukh., FRCO

Dir. of Conservatorium, Ormond Prof.

Jones, Rev. P., PhD Pontif. Urb.,

MusDoc Pontif. Inst. Mus. Sacr., MA

Vice-Dir. of Conservatorium

### Senior Lecturers

Deane, B., BA BMus Belf., PhD Glas. (Theory)

Nickson, N., DMus Dub. (Theory)

Glickman, J. (Violin & Viola)

Kennedy, J. (Violoncello)

Shepherd, R. (Pianoforte)

Harrison, E. (Pianoforte)

Sharp, F. (Singing)

Over 70 Teaching Officers†

### Pharmacology

Shaw, F. H., PhD Lond., MSc

Prof.

Gershon, S., MB BS Syd., DPM Sr. Lectr.

Herman, Laura, BSc Temp. Lectr.

Bruce, D. W., MA Aberd. Sr. Demr.

Lang, W., BSc Sr. Demr.

### Philosophy

Gibson, A. B., MA Oxon., DLitt Camb.,

BA Prof.

Gasking, D. A. T., MA Camb., BA Liv.

Assoc. Prof.

Jackson, A. C., PhD Camb., MA Reader

McCloskey, H. J., MA PhD Sr. Lectr.

Gunner, D. L., MLitt Camb., MA

(on leave) Sr. Lectr.

Armstrong, D. M., BA Syd., BPhil Oxon. Lectr.

McGechie, J. E., BA W.Aust.,

BPhil Oxon. Lectr.

Charlesworth, M. J., PhD Louvain, MA Lectr.

McCloskey, Mrs. Mary A., MA PhD Lectr.

Szrednicki, J. T. J., MA

(External Studies) Lectr.

de Graaff, G. E., BPhil Oxon., MA Lectr.

Joske, W. D., MA Sr. Tutor

4 Tutors, 3 Officers†

### Physical Education

Duras, F., MD Freib., MEd Assoc. Prof.

Willee, A. W., BA DipPhysEd Lond.,

BEd Sr. Lectr.

Gill, Eunice E. P., BA DipEd DipPhysEd

Sr. Lectr.

McConchie, Lorna J., DipPhysEd Lectr.

Sandstrom, E. R., BA DipPhysEd Lond. Lectr.

21 Officers†

**Physics**

Mohr, C. B. O., PhD <i>Camb.</i> , BA MSc, FIP	Assoc. Prof.
Hopper, V. D., DSc, FIP	Reader
Caro, D. E., PhD <i>Birm.</i> , MSc	Reader
Cherry, R. O., MSc, FIP	Sr. Lectr.
Spicer, B. M., MSc PhD	Sr. Lectr.
McDonell, J. A., BA MSc PhD	Sr. Lectr.
Swan, P., PhD <i>Lond.</i> , MSc	Sr. Lectr.
Rouse, J. L., BA MSc	Sr. Lectr.
Wignall, J. W. G., PhD <i>Camb.</i> , MSc	Sr. Lectr.
Hirst, F., MSc PhD, FIP	
Officer-in-Charge, Digital Computer	
Officer, V. C., MSc N.Z., PhD	Lectr.
Sargood, D. G., BSc	Lectr.
Mather, K. B., MSc BSc(Engin) <i>Adel.</i>	Lectr.
Shute, G. G., PhD <i>Birm.</i> , MSc	Lectr.
Laby, Jean E., MSc PhD	Lectr.
Spear, R. H., MSc PhD	Temp. Lectr.
Abbey, R. L., MSc	Lectr.
Legge, G. J. F., MSc	Sr. Demr.
Robson, B. A., BSc	Sr. Demr.
Booth, A. P., BSc	Sr. Demr.
McKenna, V. R., MSc	Sr. Demr.
Eccles, P. J., MSc	Sr. Demr.
Lichtblau, H., MSc	Sr. Demr.
Perlman, H. S., MSc	Sr. Demr.
1 Officer†	

**Physiology**

Wright, R. D., MB MS DSc, FRACP	Prof.
Agar, W. T., BSc <i>Oxon. &amp; Melb.</i> , MB BS	Reader
Trethewie, E. R., DSc MD BS, MRACP	Reader
Coats, D. A., MB BS <i>Adel.</i>	Sr. Lectr.
Dewhurst, D. J., BA MSc PhD	Sr. Lectr.
Keogh, Patricia P., MSc	Lectr.
Holman, Mollie E., DPhil <i>Oxon.</i> , MSc	Lectr.
Chennells, Mary H. D., BSc PhD <i>Lond.</i>	Lectr.
Hutchinson, Margaret	Sr. Demr.
Parker, Margaret A., BPharm <i>Lond.</i>	Sr. Demr.
Alltoft, Margery E., BSc	Sr. Demr.
1 Officer†, 2 Demrs.	

**Plant Physiology**, see Bot.**Political Science**

Ball, W. M., MA	Prof.
Davies, A. F., MA	Reader
Burns, C. L., MA <i>Oxon.</i> , BA	Sr. Lectr.
Churchward, L. G., MA DipEd	Sr. Lectr.
Wolfsohn, H. A., BA	Sr. Lectr.
Huck, E. A., MA	Lectr.
Jupp, J., MSc(Econ) <i>Lond.</i>	Lectr.
2 Tutors, 3 Officers†	

**Psychology**

Oeser, O. A., MSc <i>S.A.</i> , PhD <i>Camb.</i> , DrPhil <i>Marburg</i> , MA, FBPsS	Prof.
Lafitte, P., BSc <i>Lond.</i> , MA LittD	Reader
Hammond, S. B., BA <i>W.Aust.</i> , PhD	Reader
Waterhouse, I. K., BA <i>Syd.</i> , MA PhD <i>Yale</i> , FBPsS	(on leave) Sr. Lectr.

Jeffrey, A. C., MB BS BSc	Sr. Lectr.
Langley, P. D., BA <i>W.Aust.</i> , BEd	Sr. Lectr.
Gardner, G., BA PhD <i>Lond.</i>	Sr. Lectr.
Morey, Elwyn A., PhD <i>Calif.</i> , MA BEd	
Howarth, E., MSc <i>Manc.</i> , PhD	Sr. Lectr.
Knopfmacher, F., BA <i>Brist.</i> , PhD <i>Lond.</i>	Lectr.
Cox, F. N., MA MSc <i>Yale</i>	Lectr.
Leaper, Patricia M., MA	Lectr.
Gilchrist, Margaret, BA	Sr. Tutor
Mitchell, Mrs. Myra D., BA	Sr. Tutor
Grieve, Norma, BA	Sr. Tutor
Goodwin, C., BA <i>N.E.</i>	Sr. Tutor
Trahair, R. C. S., BA	Sr. Tutor
Kotler, Tamara, BA	Sr. Tutor
Francis, R. D., BA <i>N.Z.</i>	Sr. Tutor
1 Res. Officer, 4 Tutors, 13 Officers†	

**Public Health**, see Medicine, below**Russian**

Christesen, Nina, BA <i>Q'ld.</i> , MA	
	Sr. Lectr.-in-Charge
de Bray, R. G. A., BA PhD <i>Lond.</i>	Lectr.
Christa, B., MA <i>Camb.</i>	Lectr.
Grishin, D. I., PhD	Lectr.
Uglitzky, Mrs. Zinaida	Lectr.
Yashounsky, Mrs. Marga E.	Sr. Tutor

**Semitic Studies**

Bowman, J., MA BD <i>Glas.</i> , DPhil <i>Oxon.</i>	Prof.
Milne, N., MA <i>Glas.</i>	(Hebrew) Lectr.
Peles, D., MA <i>Jerusalem</i>	(Hebrew) Lectr.
Young, M., BA <i>Camb.</i>	(Arabic) Lectr.
Culican, W., MA <i>Edin.</i>	(Biblical Archæol.) Lectr.

1 Officer†

**Social Studies**

Hoban, Eileen R., CertSocSc&Adm <i>L.S.E.</i> , BA BCom DipEd	Assoc. Prof., Dir.
Thomas, Beryl, DipSocStud <i>Syd.</i>	Asst. Dir.
Wardell, Teresa, DipSocStud	

	Field Work Administrator
Hyde, Alice, DipSocStud <i>Liv.</i>	Lectr.
O'Brien, Mrs. Laurie R. C., BA	Lectr.
Sharp, G. B., MA	Lectr.
Hay, Lorna, CertMentHlth <i>L.S.E.</i> , BA DipSocStud	Lectr.
1 Tutor, 8 Officers†	

**Statistics**

Belz, M. H., MSc <i>Camb.</i> , BSc <i>Syd.</i> , MA, FASA	Prof.
Jowett, G. H., BA <i>Lond.</i> , PhD <i>Sheff.</i>	Reader
Gregory, G., MA <i>Camb.</i> , MS PhD <i>Stan.</i>	
	Sr. Lectr.
Adkins, B. L., BSc <i>Q'ld.</i>	Lectr.
.....	Sr. Tutor
1 Res. Asst.	

**Surveying**, see Engineering, below

**Town and Regional Planning**

Ledgar, F. W., MA PhD DipTP *Manc.*  
Sr. Lectr.-in-Charge  
Bayly, J. J., BArch DipTRP Lectr.  
20 Officers†

**Veterinary Science**, see Vet. Res. Inst., below

**Zoology**

White, M. J. D., DSc *Lond.*, MSc, FAA Prof.  
Drummond, F. H., BSc *W. Aust.*, PhD *Lond.*,  
MSc Reader  
Boardman, W., MSc *Syd. & Melb.* Sr. Lectr.  
Willis, A. G., MSc *Wales & Melb.* Sr. Lectr.  
Burnstock, G., BSc PhD *Lond.* Sr. Lectr.  
Wasserman, M., PhD *Texas*  
(Genetics) Temp. Sr. Lectr.  
Gunson, Mary M., MSc Lectr.  
Thomson, J. A., BSc Lectr.  
Littlejohn, M. J., PhD *W. Aust.* Lectr.  
Low, Mildred E., PhD *Tulane* Lectr.  
Strangio, V. A., MSc Sr. Demr.  
Dobrotworsky, N., MSc *Leningrad & Melb.*  
Sr. Res. Fellow  
2 Demrs.

**DENTAL SCIENCE****Clinical Photography**

Tuckfield, W. J., ScD *Northwestern*, DDS, FDSRCS, FACP Hon. Officer-in-Charge

**Conservative Dentistry**

Reich, J., MB BS MDSc LDS, FRACS Prof.  
Makinson, O., BDS *Syd.*, MS *Mich.*,  
DDS *Northwestern*, FDSRCS Reader  
Campbell, M. J. A., MDSc Sr. Lectr.  
McIntosh, H. A., BDS Lectr.  
Malcolm, A. S., BDS Lectr.  
Stragis, Asja, BDS Sr. Demr.  
4 Sr. Demrs.†

**Dental Prosthetics**

Atkinson, H. F., MBE, MSc DDS  
*Manc.*, MDSc, FDSRCS  
Assoc. Dean, Fac. of Dent. Sci., Prof.  
Shepherd, R. W., DDS Reader  
Dennis, C. G., DDS Sr. Lectr.  
Gill, H. I., MDSc Lectr.  
Harcourt, J. K., MDSc Lectr.  
Neiburgs, Natalia, BDS Sr. Demr.  
Lim, Allin, BDS Sr. Demr.  
5 Sr. Clin. Demrs.†

**Ethics and Practice Management**

6 Officers†

**Human and Comparative Dental Anatomy**

McIntosh, H. A., BDS Lectr.

**Medicine**

Davis, M. C., MD BS, FRACP †Sr. Lectr.  
1 Clin. Demr.†

**Metallography and Dental Materials**

Worner, H. W., DSc, FIM, FRACI †Prof.  
Docking, A. R., MSc, FRACI  
(D. Materials) †Sr. Lectr.

**Oral Histology and Embryology**

Amies, Sir Arthur, CMG, DDS DLO,  
FRCSEd, FRACS, FDSRCS,  
FDSRCSed, FACP  
Pro-Vice-Chancellor, Principal, Aus-  
tralian Coll. of Dent., †Prof.  
Harcourt, J. K., MDSc †Lectr.  
Campbell, M. J. A., MDSc †Lectr.

**Oral Medicine and Oral Surgery**

Amies, Sir Arthur, CMG, DDS DLO,  
FRCSEd, FRACS, FDSRCS,  
FDSRCSed, FACP  
Pro-Vice-Chancellor, Principal, Aus-  
tralian Coll. of Dent., Prof.  
Lahenthal, B., BSc DDS *Syd.*, DPhil *Oxon.*  
(D. & Oral Bacteriol.) Sr. Lectr.  
Gilmore, H. G., MDSc  
(Oral Med. & Surg.) Sr. Lectr.  
Sealey, V. T., DDS, FDSRCSed  
(Oral Surg.) Sr. Lectr.  
Fleming, W. E., MB BS DDS DLO  
(D. & Oral Pathol.) Sr. Lectr.  
.....  
(Anæsth.) Sr. Lectr.  
3 Sr. Demrs.†

**Orthodontics**

Adamson, K. T., DDS, FDSRCS, FACP  
†Sr. Lectr.-in-Charge  
4 Sr. Clin. Demrs.†

**Periodontics**

Storey, E., DDS †Sr. Demr.

**Pharmacology and Therapeutics**

Shaw, F. H., PhD *Lond.*, MSc †Prof.

**Surgery**

Ewing, M. R., MB ChB *Edin.*, MSc,  
FRCS, FRCSEd †Prof.  
Allcock, E. A., BDS, MB ChB *Manc.*,  
FDSRCS, FRCS †Sr. Lectr.  
Trinca, A. J., MD BS, FRCS, FRACS †Lectr.

**ENGINEERING****Agricultural Engineering**

Vasey, G. H., BCE Sr. Lectr.  
1 Officer†

**Chemistry for Engineering Students**

Olver, N. H., MSc Lectr.  
1 Demr.

**Civil Engineering**

Francis, A. J., MSc PhD *Birm.*, MCE,  
MICE Prof.

Trollope, D. H., MSc PhD *Wales*  
 Wood, J. V., BCE  
 Laszlo, F., *DIng T.H.Darmstadt*,  
*DiplIng Bud.*, MCE  
 Lawson, J. D., PhD *Aberd.*, BE *W.Aust.*  
 (on leave) Sr. Lectr.  
 Sharp, B. B., ME *Adel.*  
 Stevens, L. K., PhD *Camb.*, BCE  
 MEngSc  
 Moody, K. G. E., PhD *Ill.*, BCE  
 MEngSc  
 Lee, I. K., MEngSc *BCE*  
 Aroni, S., BCE  
 Grigg, W. L., BCE  
 2 Officers†

**Electrical Engineering**

Moorhouse, C. E., BMechE MEE,  
 MIEAust Prof.  
 Ferguson, A. E., MEE Reader  
 Brownlee, T., BSc *Glas.*, MEE Sr. Lectr.  
 King-Smith, E. A., BEE MEngSc Sr. Lectr.  
 Catravas, S. J., BSc(Eng) *Rand* Lectr.  
 McCutchan, J. C., BEE Lectr.  
 Hooper, D., BEE Lectr.  
 Bonwick, W. J., BEE Lectr.  
 4 Officers†

**Mechanical Engineering**

Henderson, P. L., PhD *Camb.*, ME *Syd.*,  
 MMechE, MIMechE Prof.  
 Hunt, K. H., MA *Oxon.*, MMechE Sr. Lectr.  
 Svensson, N. L., MMechE Sr. Lectr.  
 Joubert, P. N., BE(Aero) *Syd.* Sr. Lectr.  
 Clifton, S. J., BE *Syd.* Sr. Lectr.  
 Pitt, R. St. C., BSc BE *Syd.* Lectr.  
 Brown, R. H., BMechE SM *M.I.T.* Lectr.  
 Mansoor, E. M., BMechE Asst. Lectr.  
 Scarls, R. S., BMechE Asst. Lectr.  
 Blackman, D. R., BMechE Asst. Lectr.  
 Milkins, E. E., BMechE Asst. Lectr.  
 Hunka, J., DSc Asst. Lectr.  
 Rotenberg, A., GradEng *Tashkent* Asst. Lectr.  
 Armarego, E. J., BSc(Eng) *Lond.* Asst. Lectr.  
 Ingram, I. D., BMechE Sr. Demr.  
 1 Demr., 1 Officer

**Metallurgy**

Worner, H. W., DSc, FIM, FRACI Prof.  
 Willis, G. M., MSc (Chem. M.) Reader  
 Wood, W. A., DSc *Manc.*, MSc, FIP  
 (Metal Phys.) Reader  
 (Phys. M.) Sr. Lectr.  
 Cannon, K. J., BEChem *Syd.*, PhD *Camb.*  
 (Metall. Engin.) Sr. Lectr.  
 Walker, D. G., MSc (Metall.) Lectr.  
 Guerin, B. D., BSc (Metall. Analysis) Lectr.  
 Hoggart, J. S., BMetE (Mech. M.) Lectr.  
 Borland, D. W., BMetE Asst. Lectr.  
 Thomson, P., BMetE MEngSc Sr. Demr.  
 Cullen, G. V. Sr. Indust. Res. Officer  
 Evans, D. G., MSc Res. Officer  
 Bull, F. A., DrRerNat *T.H.Karlsruhe*,  
 MSc Res. Officer

Reader  
 Sr. Lectr.

Hensler, J. H., BMetE MEngSc Res. Officer  
 McPherson, R., BMetE MEngSc Res. Officer  
 2 Officers†

**Mining**

Dunkin, H. H., BMetE Assoc. Prof.  
 Carr, J. S., BSc BE(Min) *N.Z.*, MS(MetEng)  
*Missouri Sch. of Mines*, SM *M.I.T.*  
 (Ore Dressing) Sr. Lectr.  
 (M. Engin.) Sr. Lectr.  
 Nevill, H. F.-C.  
 5 Officers†

**Surveying**

Thornton-Smith, G. J., BE BSurv *W.Aust.*,  
 MCE Assoc. Prof.  
 Murphy, B. T., BSurv Lectr.  
 2 Officers†

**MEDICINE**

(for subjects of first 3 yrs.—Anat.,  
 etc., see above)

**Anæsthetics**

O'Brien, H. D., MB BS DA †Lectr.

**Bacteriology**

Rubbo, S. D., PhD DipBact *Lond.*,  
 BSc MD BS MPS *Syd.* Prof.  
 Gray, D. F., DSc *Q'ld.*, BVSc *Syd.* & *Q'ld.*,  
 DipBact *Lond.*, MSc DVSc Assoc. Prof.  
 Gibson, F. W. E., DPhil *Oxon.*, BSc Reader  
 Holloway, B. W., BSc *Adel.*, PhD *Cal.Tech.*  
 Mushin, Rose, MSc PhD Sr. Lectr.  
 Millis, Nancy, PhD *Brist.*, MagrSc Sr. Lectr.  
 Gardner, Joan F., DPhil *Oxon.*, MSc Sr. Lectr.  
 Lilienthal, B., BSc DSc *Syd.*,  
 DPhil *Oxon.* Sr. Lectr.  
 White, D., MB BS *Syd.*, PhD *A.N.U.* Lectr.  
 Pittard, A. J., BSc Sr. Demr.  
 Oliphant, Hilary, BSc Sr. Demr.  
 Wisdom, L. A. Lab. Manager

**Public Health Laboratory**

Wilson, M. M., MA MB BChir *Camb.* Asst. Dir.  
 Cooper, G. N., PhD Chief Bacteriologist  
 Merrifield, Enid Bacteriologist  
 Taplin, Jennifer, BSc Bacteriologist  
 McAvan, T. Bacteriologist  
 Morton, Mary, BSc Bacteriologist  
 16 Officers†

**Child Health**

Collins, V. L., MD, MRCP Stevenson Prof.

**Experimental Medicine**

Burnet, Sir F. Macfarlane, OM, PhD *Lond.*,  
 ScD *Camb.*, DSc *W.Aust.*, MD,  
 FRCPEd, FRACP, FAA, FRS  
 Dir., Walter & Eliza Hall Res. Inst., Prof.  
 Anderson, S. G., MD BS  
 Sr. Haley Res. Officer

**Medical History**, see Anat.

**Medical Jurisprudence**

Bowden, K. M., MB MS †Indep. Lectr.  
4 Officers†

**Medicine**

Dept. of James Stewart Prof.

Lovell, R. R. H., MD BS *Lond.*, MSc,  
MRCP, FRACP James Stewart Prof.  
Doyle, A. E., MD BS *Lond.*, MRACP

First Asst.

Melick, R. A., MB BS *Syd.*, MRCP Asst.  
Baird, C. W., MD BS BSc PhD, MRACP Asst.  
Nestel, P., MB BS *Syd.*, MRACP Asst.  
Fraser, J. R. E., MD BS Res. Asst.  
Hollett, Charlotte, PhD *Vanderbilt*, MSc *McG.*

Res. Asst.

Maddocks, I., MB BS, MRACP Res. Asst.

Denborough, M. A., MB ChB *Cape T.*,

DPhil *Oxon.*, MRCT Res. Asst.

5 Officers†

Dept. of Prof. of Med.

Hayden, J. G., CBE, ED, MD BS,  
FRACP Prof.

de Gruchy, G. C., MD BS, FRACI First Asst.

Boake, W. C., BSc *Oxon.*, MSc MB BS Second Asst.

Niall, J. F., MD, MRCP Second Asst.

**Normal Psychology**

Sinclair, A. J. M., MD BS, MRCP †Lectr.

Kingston, W. R., BSc MD BS DPM †Lectr.

Stephens, H. J. B., DTM *Syd.*, MB BS

DPM, FRACP †Lectr.

Reynolds, P. G., MB BS †Lectr.

**Obstetrics and Gynaecology**

Townsend, S. L., MD BS DTM&H,  
FRCSEd, FRACS FRCOG Prof.

Professorial Unit at Royal Women's Hospital

Mackay, E. V., MB BS, FRCSEd First Asst.

Kitchen, W. H., MD BS, MRACP Second Asst.

Barbaro, C. A., MB BS Second Asst.

Smith, G. O., MB BS Second Asst.

4 Officers†

**Pathology**

King, E. S. J., DSc MD MS, FRACP,  
FRCS, FRACS, FAA Prof.

Christie, G. S., MD BS, FRACS Assoc. Prof.

Hurley, J. V., MB BS PhD (on leave) Sr. Lectr.

Menzies, D. W., MB ChB *Glas.* Sr. Lectr.

Anderson, R. McD., MB BS

(Neuropathol.) Sr. Lectr.

Green, C. R., MB BS Asst. Curator of Museum

Tange, J. D., MB BS, MRCP Lectr.

Weiner, S., MD *Zür.* Lectr.

McCallum, N. E. W., MSc PhD, FRACI

(Chem. P.) Lectr.

Scroggie, J. G., MSc PhD (Chem. P.) Lectr.

Bayly, R. C., BSc (Forensic Chem.) Lectr.

Buckley, I. K., MB BS Res. Fellow

Hughes, P. E., MB BS PhD

(on leave) Res. Fellow

Storey, E., DDSc PhD Res. Fellow

Louis, C. J., MB BS PhD Res. Fellow

Xeros, N., BSc PhD *Camb.* Res. Fellow

Ham, Kathryn N., BA *Calif.*, MD *Chic.*

Res. Scholar

4 Res. Assts., 9 Officers†

**Pharmacy**

Stanton, B. L., MB BS, MRCP, FRACP †Lectr.

**Psychology**, see Normal Psychol.**Public Health**

Stevenson, W. J., DTM DPH *Syd.* †Lectr.

**Radiology**

Crisp, E. R., DMRE *Camb.*, MD BS †Lectr.

Mackay, A. J. G., DR *Edin.*, MB BS,

FRCSEd, FRACP †Lectr.

Donnan, M. G. F., MB BS DR †Lectr.

Piper, A. E., MB BS DDR †Lectr.

**Surgery**

Ewing, M. R., MB ChB *Edin.*, MSc,

FRCS, FRCSEd, FRACS Prof.

Alcock, E. A., MB ChB BDS LDS *Manc.*,

FDSRCS, FRCS Second Asst.

Johnson, N., MB MS, FRCS, FRACS

Second Asst.

Berci, G., MD (Exper. S.) Lectr.

Cox, K. R., MB BS, FRCS, FRACS Res. Asst.

Bishop, Ruth, MSc Res. Asst.

8 Officers†

**Therapeutics**

Frew, J. L., MD BS, MRCP, FRACP †Lectr.

Clarke, J. E., MD BS, MRCP, FRACP †Lectr.

Hughes, J. F., MD BS DTM, MRCP,

FRACP †Lectr.

Bottomley, E. E. K., MB BS, MRCP †Lectr.

Garlick, H. W., MD BS, MRCP †Lectr.

**VETERINARY RESEARCH INSTITUTE**

Albiston, H. E., DVSc Dir.

Pullar, E. M., DVSc Reader

Gorrie, C. J. R., BVSc Sr. Vet. Res. Officer

Jones, T. E., BVSc *Syd.* Vet. Res. Officer

Schuster, Mrs. Norma H., BSc Biochemist

Eales, Jean D., MSc Milk Bacteriologist

Towt, Teresa, BSc Milk Bacteriologist

## ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE. *Vice-Chancellor's Branch* Staff Architect : R. E. Featherstone, DipArchDes, FRAIA. Sec., Aust. Vice-Chancellors' Cttee. : R. G. H. Irving, CBE. *Registrar's Branch*. Assts. to Registrar : S. H. Sheffield, BA ; R. B. Osborn, DSO, DFC, MA Camb. Statistical Officer : F. Kathie Hindson, BA. *Grad. Studies & Bldgs. Branches*. Editor, 'Res. Report' : J. S. Rogers, MC, BA DSc DipEd, FIP. Maintenance Officer : R. A. Ellis. *Accounts Branch*. Asst. Accountants : M. N. Ferguson, BCom ; F. E. Bedbrook, BCom. *Asst. Registrar's Branch*. Matric. Officer : H. G. Helms, BA BSc BED. *Academic Sec.'s Branch*. Publicns. Officer : P. G. Kelly. *Scientific, Med. & Technical Branch*. Sec. (Scientific) : A. Sanderson ; Sec. (Technical) : P. F. Dorian, BA. Asst. Sec. : I. L. Milne, BA. *Student Counsellor's Branch*. Student Counsellor : R. R. Priestley, BA Q'ld. Asst. Student Counsellor : Marjorie E. Ross, BA. *Students' Records Branch*. Clerk : E. Finn. Fee Clerk : R. H. Shurey. *Public Exams. Branch*. Clerk : F. H. Johnston.

UNIVERSITY PRESS. Manager and Sec. : G. F. James, MA Birm. Asst. Reader : Barbara M. Ramsden, BA. Printing Manager : D. H. Wade.

UNIVERSITY LIBRARY. Dep. Librarian : G. J. L. Macfarlan, BA ; Hd. Cataloguer : Lois H.

Semmens, BA ; Reference Librarian : Mary E. Lugton, BA ; Accessions Librarian : Valerie R. S. Turnbull, BA ; Sr. Cataloguer : Margaret J. Hagger, BA ; Med. Librarian : Anne Harrison, BA W.Aust. ; Engin. Librarian : J. S. Greig, BA.

CONSERVATORIUM OF MUSIC. Sec. : I. P. Fiddian.

AUSTRALIAN COLLEGE OF DENTISTRY. Sec. : I. B. Postle, LLB Tas. Librarian : Heather N. Rankine.

EXTENSION COMMITTEE. Sec. : L. A. Clarkson, BA Nott.

AUDIO-VISUAL AIDS DEPARTMENT. Dir. : N. H. Rosenthal, BA BSc ; Sr. Res. Officer : R. J. Thomson, BA DipEd Syd. ; Sr. Technician : G. R. A. Ogilby.

APPOINTMENTS BOARD. Sec. : H. F. Downes, DipCom ; Asst. Sec. : K. Gravell, BCom ; Admin. Asst. : B. J. Walsh, BSc N.Z.

UNIVERSITY UNION. Warden of the Union : J. B. Webb, BA. Sec. : D. B. Carswell.

ATHLETICS. Adviser : F. Stampfl.

SPORTS UNION. Sec. : W. K. Tickner, DipCom.

## RESIDENTIAL COLLEGES

(Controlled by representatives of the Churches but open to members of all religious denominations)

TRINITY COLLEGE, Parkville, N.2, Victoria (tel. : 34 1001 [Trinity], 34 2208 [Janet Clarke Hall]). (Church of England.) Warden—R. W. T. Cowan, BA Adel., MA BLitt Oxon., MA. Dean—J. R. Poynter, MA Oxon., BA. Principal of Janet Clarke Hall—Margaret A. Dewey, MA Harv. 38 other Tutors.

ORMOND COLLEGE, Parkville, N.2, Victoria (tel. : 34 4494). (Presbyterian.) Master—Rev. Prof. J. D. McCaughey, MA. 33 other Tutors.

QUEEN'S COLLEGE, Parkville, N.2, Victoria (tel. : 34 5968). (Methodist.) Master—R. C. Johnson,

MA Oxon., PhD Lond., DSc Lond. & Melb. 18 other Tutors.

NEWMAN COLLEGE, Parkville, N.2, Victoria (tel. : 34 5915 [Newman], 34 1032 [St. Mary's Hall]). (R.C.) Rector—Very Rev. J. P. Gleeson, BLitt Oxon., BA. Dean—Rev. E. J. Stormon, MA. Superior of St. Mary's Hall—Mother Francis. 23 Tutors.

UNIVERSITY WOMEN'S COLLEGE, Parkville, N.2, Victoria (tel. : 34 2539). (Udenom.) Principal—Angela A. Milne, BSc PhD Aberd. 10 Tutors.

## GENERAL INFORMATION

The univ. was founded in 1853 by an act of the Victorian legislature and declared open in 1855. Schs. of law and med. were establd. in 1857 and 1862 respectively. The ceremonial Wilson hall (destroyed by fire in 1952) was opened in 1882, a yr. after women students were first admitted ; the new hall was opened in 1956. Residential colls. were establd. as follows : Trinity, 1872 ; Ormond, 1881 ; Queen's, 1888 ; Newman, 1919. The conservatorium of music was opened in 1895 and the coll. of dent. affiliated with the univ. in 1904. A yr. later schs. of dent. and agric. were establd. By 1920, 2000 students were attending the univ., and during the ensuing

10 yrs. schs. of arts, anat., bot. and geol. were built and the univ. press establd. In 1933 the univ.'s first salaried vice-chancellor was apptd., previous holders of that office having acted in an honorary capacity. 1937 saw the establ. of Union House, a recreation centre for students, and the opening of Univ. Women's Coll., to which major extensions were made in 1952. Chcm. and comm. bldgs. were opened in 1939. During the second world war the univ. became a centre of technical trg. and res. In 1947 enrolments had risen to 9100, and a branch was opened at Mildura for 1st-yr. students in certain sci. facs. ; this branch was closed in 1949. Twenty-four new chairs

were created in the yrs. 1945-58, a second arts bldg. was opened in 1949 and 2 new floors added in 1956. The Beaurepaire centre for phys. educn. has recently been completed. The first 2 floors of the Russell Grimwade sch. of biochem. were occupied in 1958 and the Baillieu library was opened in March 1959. Following the adoption by the fed. govt. of the recommendations of the Murray report, some 136 new staff appts. have recently been made.

**CONSTITUTION.** The honorific offices are those of chancellor and dep.-chancellor (elected annually by council from among its members); they are assisted by the chief executive officers, viz. the vice-chancellor, registrar and accountant, and their staffs. The council is composed of 33 members—10 elected by grads.; 4 reps. of the teaching staff, 2 of affiliated colls., 2 of undergrads.; 8 apptd. by the govt. (3 being members of parliament, the others representing business interests and technical schools); 4 *ex officio*; 1 nominated by the council of Monash Univ.; and 2 co-opted members. Convocation (the body of grads.) elects a standing cttee. with certain legislative and advisory functions. There is a professorial bd., and individual courses are controlled by facs. and bds. of studies.

**INCOME (1958).** £A3,227,870 (state govt. grants, 35.2 per cent.; commonwealth govt. grants, 28.6 per cent.; students' fees, 20.9 per cent.; pub. exam. and cert. fees, 3.9 per cent.; interest and non-capital donations, 7.8 per cent.; other income, 3.6 per cent.).

**FACULTIES AND DEANS (1960).** *Agric.*, Prof. H. C. Forster; *archit.*, Prof. B. B. Lewis; *arts*, Prof. E. R. Love (maths.); *dent. sci.*, Prof. Sir Arthur Amies (dent. med. & surg.); *econ. & comm.*, Prof. D. Cochrane (comm.); *educn.*, Prof. W. H. Frederick; *engin.*, Prof. P. L. Henderson (mech. engin.); *law*, Prof. Z. Cowen; *med.*, Prof. S. Sunderland (anat.); *music*, Prof. G. F. Loughlin; *sci.*, Prof. F. H. Shaw (pharmacol.); *vet. sci.*, Prof. R. D. Wright (physiol.).

**UNIVERSITY PRECINCT.** The univ. occupies 66 acres to the north of the city (40 acres adjacent to this area are vested in the 4 affiliated colls.). The master-plan for future devel. of the campus proper provides for new multi-storey bldgs. on the periphery, to retain the wide grassed areas in the centre of the campus. Other aims are: the conversion of several existing bldgs.; the demolition of obsolete bldgs.; the transfer of the med. school diagonally across the campus to the S.W. corner; and the control of parking and traffic problems in the grounds. A 12-storey bldg., being erected in the N.W. corner, is intended to house the depts. of psychol. and educn. and to act as a temp. home for other depts.

**LOCATION OF OUTSIDE DEPARTMENTS.** *Dept. of exper. med.*: Royal Melbourne Hosp., Parkville, N.2, Melbourne. *Vet. Res. Inst.*: Parkville, N.2, Melbourne. *Dental coll.*: 193 Spring St., Melbourne, C.1. *Depts. of med.*: Royal Melbourne

Hosp., Parkville, N.2; St. Vincent's Hosp., Victoria Pde., Fitzroy. *Dept. of surg.*: Alfred Hosp., Commercial Rd., Prahran.

**LIBRARIES.** Baillieu libr., 165,944 vols. Branch librs.: *agric.*, 5264; *archit.*, 3246; *bot.*, 6250; *chem.*, 6198; *conservatorium*, 1210; *engin. & metall.*, 17,755; *for.*, 1103; *geol.*, 10,704; *law*, 14,770; *med.*, 31,261; *zool.*, 6298. Total, 270,003.

**MUSEUMS.** *Agric.*, *anat.*, *bot.* (herbarium), *chem.*, *dent. sci.*, *geol.*, *hist.*, *music* (Percy Grainger), *pathol.*, *zool.*

**LABORATORIES.** *Agric.*, *anat.*, *bacteriol.*, *biochem.*, *bot.*, *chem.*, *civ. engin.*, *dent. sci.*, *electr. engin.*, *exper. med.*, *geol. & mineral.*, *mech. engin.*, *metall.*, *meteorol.*, *mining*, *obstet. & gynæcol.*, *pathol.*, *phys.*, *physiol.*, *psychol.*, *statistics*, *vet. sci.*, *zool.*; also for. (field stn.), *bot.* (system garden); and several commonwealth govt. labs. (incl. X-ray and radium, and C.S.I.R.O. sections). *Vet. Res. Inst.*, Parkville, *Walter & Eliza Hall Res. Inst.*, in connexion with Royal Melb. Hosp.

**TEACHING HOSPITALS.** *General Hosps.*: Royal Melbourne H., Alfred H., St. Vincent's H., Prince Henry's H. *Special Hosps.*: Royal Women's H., Queen Victoria Memorial H., Royal Children's H., Victorian Eye and Ear H., Fairfield H., Royal Park Receiving House.

**ADMISSION.** See Appendix II.

**NON-MEMBERS OF THE UNIVERSITY** are not admitted to classes.

**PUBLIC EXAMINATIONS.** The univ. through its schools bd. holds sch. inter. and sch. leaving exams. throughout Victoria annually. Pupils of certain secondary schs. (approved after inspection) may obtain credit on headmaster's cert. without sitting for external exam. The matric. exam. (1 yr. after sch. leaving) is held for pupils seeking to enter the univ. Sp. provision exists for matric. of adults. See also Appendix II.

**FIRST DEGREES.** 3 yrs.—BA (ordinary), BSc (ordinary), BScF, BCom (ordinary); 4 yrs.—BA (hons.) [more intensive than ord. degree: students take either 1 or 2 of the following hons. schs.: classical studies, econ., Engl. lang. & lit., fine arts, French lang. & lit., geog., Germanic langs., hist., hist. & philos. of sci., mathl. statistics, maths., philos., pol. sci., psychol., Russian lang. & lit., Semitic studies], BSc (hons.) [after completion of 3 yrs.' study required for ord. degree, hons. students proceed to 1 yr's. res. in either 1 or 2 of the following schs.: biochem., bot., chem., engin., geol., metall., microbiol., pharmacol., phys., physiol., psychol., zool.], BCom (hons.), I.I.B. pass, hons., MusBac, BE (in agric. engin., civil, mining, metall., electr., mech. and chem. engin.), BSurv, BAgSc (incl. 1 yr. at an approved agric. coll.), BBldSc; 5 yrs.—BArch, BDS; 6 yrs.—MB BS. The univ. is prohibited by act of parliament from conferring degrees in div.; degrees of BD and DD are conferred by the Melbourne Coll. of Divinity (non-univ.).

The BA and BCom (incl. accty., etc.) courses are the only degree courses which can be completed on a pt.-time basis.

**HIGHER DEGREES.** Open to bachelors of 1 yr.'s standing—MAgrSc, LLM, MEngSc; 2 yrs.—BEd, MSc (in some cases, 3 yrs.), MScF, MD, MS, MDSc, MVSc; 3 yrs.—MED, ME, MusDoc, DVSc; 4 yrs.—DSc, LLD, DDSc; 5 yrs.—DEng, MArch, MGO, DArch; 7 yrs.—LittD. The MA and MCom are open to bachelors (hons.) of 1 yr.'s standing and bachelors (ord.) of 2 yrs.' standing. The BEd course can be taken after graduation in any other fac. The PhD degree can be taken in all facs. Standing required before admission to PhD course varies according to the fac. in which prior degree was taken. Courses of med. postgrad. study arranged by sp. cttee. on which univ. is represented.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** DPH, open to med. grads. of Melb. and persons qualified for registration as med. practrs. in U.K., 12 mos.; ophthalmol., laryngol. & otol., gynæcol. & obstet., therapeutic radiol., diagnostic radiol., anaesthetics and psychol. med. (DO, DLO, DGO, DTR, DDR, DA, DPM), open by exam. to med. grads. of 3 yrs.' experience in practice. Dietetics (DipDiet), 1 yr. following BSc or BAgSc course; DipEd, 1 yr. following graduation in any other fac.; journalism, phys. educn., pub. admin., town and regional planning (DipJourn, DipPhysEd, DipPubAdmin, DipTRP), 2 yrs.' undergrad. study; music, soc. studies (DipMus, DipSocStud), 3 yrs.' undergrad. study; DipAgr, DipArchDes, 4 yrs.' undergrad. study.

**RESEARCH.** Facilities for postgrad. res. or advanced study in all depts. Details of recent and current res. activities publ. annually in *Report of Res. & Investigation* and *Discovery* (see 'Publications' para., below).

**FEES.** Matric., 3 gs.; degree (except dent. sci., 10 gs.), 13 gs.; degree courses in agric., 4 yrs., £A429; archit., 5 yrs., £A548; arts, 3 yrs., £A286; 4 yrs., £A343; comm., 3 yrs., £A340; 4 yrs., £A352; dent. sci., 5 yrs., £A808; educn., 2 yrs., £A138; engin., 4 yrs., £A472; law, 4 yrs., £A463; med., 6 yrs., £A846; music, 4 yrs., £A472; sci., 3 yrs., £A358; 4 yrs., £A433; bldg. sci., 4 yrs., £A472; dipl. courses in soc. studies, 3 yrs., £A350; town & regional planning, 2 yrs., £A167; pub. admin., 2 yrs., £A224; archit. des., 4 yrs., £A155; journ., 2 yrs., £A159; music, 3 yrs., £A347; phys. educn., 2 yrs., £A212; dipl. fee, 5 gs.; sports entrance fee, £A1: 10s.; annual sports fee, £A3; union entrance fee, 4 gs.; annual union fee, £A6; S.R.C. fee, £A1; registration fee, 7 gs.

**ACADEMIC YEAR.** March to Dec. Four terms (the 4th an exam. term): 10 weeks, 9 weeks, 7 weeks, 7 weeks.

**ADULT EDUCATION.** Adult educn. in Victoria, formerly directed by the univ. extension bd., is now controlled, under provisions of a sp. act of parliament, by the council of adult educn., a body indep. of the univ.

**VACATION COURSES.** No regular courses provided by the univ., but from time to time certain depts. arrange sp. courses during long vacations.

**PRINCIPAL 'OPEN' AWARDS.** Aitchison scholp., commonwealth scholps. (see p. 12), Dick bursaries, free places, Gowrie scholps., Moran bursaries, Rest-Home bursary, senior govt. scholps., war bursaries. A students' loan fund has assets exceeding £A89,100.

Sir Thomas Lyle fellowship in phys.; H. W. C. Simpson res. scholp.; Georgina Sweet fellowships in (a) econ. zool., (b) med., (c) econ. geol.; Hirsh and Olga Taft interchange scholp.; Dunlop Rubber Co. res. scholps. in phys. and chem.; Vacuum Oil Co. res. scholp.; Sir John and Lady Higgins res. scholp. Sir Arthur Sims travelling scholp.; Dixon res. scholp. in engin.; Margaret Catto scholp.; grants and scholps. from commonwealth and Victorian state govt. funds; I.C.I.A.N.Z. res. fellowships (2); Grimwade prize; Harbison-Higinbotham scholps.; Ernest Scott prize; David Syme res. prize; Monsanto scholp. in chem.

**RESIDENCE.** The residential colls. accomm. over 600 resident students. Trinity Coll. (£A270 for acad. yr. of approx. 32 wks.), 163 students; Janet Clarke Hall (£A220), 82 students; Ormond Coll. (240 gs.), 155 students; Queen's Coll. (£A260), 115 students; Newman Coll. (£A207), 154 students; St. Mary's Hall (£A186), 41 students; University Women's Coll. (£A220), 125 students. Tuition is provided at all residential colls. (See also p. 49.)

Halls of residence: International House (6 gs. per week), 70 students; Medley Hall (£A5: 12s. per week), 36 students.

**APPOINTMENTS BOARD.** The bd. provides an employment service for men and women with univ. trg. It has reciprocal agreements throughout Australia and the U.K. whereby bds. of other univs. make their services available to grads. and undergrads. of the Univ. of Melbourne. The bd. also arranges vacation work. Sec.: H. F. Downes, DipCom.

**MILITARY AND AIR FORMATIONS.** Melbourne Univ. regiment (military) and univ. air squadron.

**STUDENTS' UNIONS.** Union House, establd. in 1937, is the centre of student activities; it is governed by the union bd. of management, on which both staff and students are represented. The bldg. includes a theatre, art gallery, library (Rowden White), reading rooms and cafeteria.

**STUDENTS' REPRESENTATIVE COUNCIL.** Establd. in 1915, organizes student functions and services and supervises clubs and socs.

**STUDENT HEALTH SERVICE.** The students' representative council, in conjunction with commonwealth X-ray and radium labs., conducts a free X-ray service. It also conducts a free eye-testing scheme in conjunction with the Australian Coll. of Optometry. The S.R.C. has



also set up a blood bank. Salk anti-polio injections available to both staff and students.

**GRADUATE UNION.** In 1938 a grads.' section of the Melbourne Univ. union came into being. By 1954 membership of the soc. had risen to over 2500. As from 1953 the grad. soc. has had indep. status under the council as the grad. union. The union produces its own publicn., *The Melbourne Grad.* (monthly newsletter). Women grads. may belong to the Melbourne women grads.' assocn., a branch of the Australian (and International) Federation of Univ. Women.

**ATHLETIC FACILITIES.** Facilities for cricket, football, athletics, tennis, hockey, basket-ball, baseball, rowing, squash racquets, fencing, lacrosse.

**PUBLICATIONS.** *Calendar* (June), 12s. 6d. net (handbooks containing extracts and general information relevant to each fac. publ. separately, 3s. each); *Annual Exam. Papers*, in sets, 6s. each; *Handbook of Public Exams.*, 12s. 6d.; *Conservatorium Prospectus*; *Manual of Public Exams. in Music*; *Report of Res. and Investigation*; *Univ. Gazette* (containing academic news and official

announcements), publ. during term; *Discovery*, illustrated acct. of res. activities at the univ., publ. occasionally, for official distribution and for sale at 2s. 6d.; *Melbourne Graduate* (monthly newsletter of grad. union); *Circulars to Schools*, publ. about 10 times a yr. and forming a link between the univ. and the secondary schs. *A History of the Univ. of Melbourne*, by Prof. Ernest Scott (Melbourne Univ. Press, 1936) (o.p.); *The Univ. of Melbourne, a centenary portrait*, by N. H. Olver and G. Blainey (Melbourne Univ. Press, 1956, 17s. 6d.); *A Centenary History of the Univ. of Melbourne*, by G. Blainey (Melbourne Univ. Press, 1957, 37s. 6d.). Students' journals: *Melbourne Univ. Magazine* (annual); *Farrago* (weekly); *Speculum* (medical); *The Margin* (commerce); *Res Judicatae* (law); *Science Review* (sci.); *Cranks and Nuts* (engin.).

The MELBOURNE UNIVERSITY PRESS, founded in 1922, publishes works by members of the univ. and other writers on learned subjects in Australia and New Zealand. It also sells text-books and caters for students' requirements in stationery and apparatus. (See also p. 49.)

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Estates of A. E., A. L. & R. G. Williams, £A140,760 for res. scholps.; Anti-Cancer Council of Vic., £A48,682 for res. and travel; Natnl. Health & Med. Res. Council, £A45,488 for res.; Mrs. G. I. Stevenson, £A20,000 for Stevenson chair of child health; Wheat Res. Council, £12,250 for res. in agric. sch.; Dept. of Primary Industry, £10,250 for res. in physiol. dept. and agric. sch.; subscriptions to univ. bldg. appeal, £A460,865 for bldgs.

**MAJOR BUILDING DEVELOPMENTS.** Remodelling of old library for fac. of law; alterations and extensions of Union House.

**RESIGNATIONS.** Prof. J. S. Anderson (chem.), apptd. dir. of Nat. Chem. Lab., Teddington; Dr. R. D. Brown (chem.), apptd. prof. of chem., Monash; Dr. A. M. Clark (zool.), apptd. prof. of zool., Tas.; Dr. D. N. F. Dunbar (phys.), apptd. prof. of phys., Canberra U.C.; Prof. Sir Leslie Martin (phys.), apptd. chairman, Aust. Univs. Commission; Dr. H. Muir (metall.), apptd. prof. of phys. metall., N.S.W.; Dr. A. F. Pillow (maths.), apptd. assoc. prof., Tor.; W. J. Stewart (acctg.), apptd. assoc. prof., N.S.W.; Miss I. I. Wilcock (sub-dean arts); B. Jones (warden, Internat. House).

**DEATHS.** Sir Ian Clunies-Ross (dep. chancellor; chairman, C.S.I.R.O.).

### Statistics

#### STUDENT NUMBERS, 1960

(as at the beginning of the academic year)

	Full-Time	Part-Time	External
Men . . .	4988	2776	416
Women . .	1889	917	118
Total	6877	3693	534

Distribution by Faculties. *Agric. sci.*, 227; *archit.*, 365; *arts*, 3285; *comm.*, 1558; *dent. sci.*, 155; *educn.*, 678; *engin.*, 763; *journalism*, 39; *law*, 1262; *med.*, 974; *music*, 228; *phys. educn.*, 125; *pub. admin.*, 32; *sci.*, 1516; *soc. studies*, 143; *town & regional planning*, 71. Total: incl. 261 students taking combined courses.

Included in the figures above are:

Postgraduate students, 413.

New admissions, 2895.

Students from other countries, 440. (Countries from which largest numbers came: Singapore & Fed. of Malaya, 251; China & Hong Kong, 83; Indonesia, 29; N. Borneo, 21; Thailand, 13).

**DEGREES AWARDED (1959).** *Agric.*: BAgSc, 49; MAgSc, 7; PhD, 1. *Archit.*: BArch, 34; MArch, 2. *Arts*: BA (hons.), 62; BA, 254; MA, 20; PhD, 3. *Comm.*: BCom (hons.), 5; BCom, 91; MCom, 1. *Dent. sci.*: BDS, 14; MDS, 4; DDS, 3. *Educn.*: BEd, 41; MEd, 1. *Engin.*: BEng, 101; MEng, 6; MEngSc, 8. *Law*: LLB (hons.), 7; LLB, 70. *Med.*: MB BS, 87; MD, 5; PhD, 8. *Music*: MusBac, 17. *Sci.*: BSc (hons.), 7; BSc, 159; BScF, 1; MSc, 10; MScF, 1; DSc, 3; PhD, 12.

**DIPLOMAS AWARDED (1959).** *Archit.*: Dip ArchDes, 1. *Educn.*: DipEd, 60. *Journalism*: DipJourn, 4. *Med.*: DGO, 1; DLO, 1; DPM, 6; DA, 2. *Music*: DipMus, 4. *Pub. admin.*: DipPubAdmin, 5. *Soc. studies*: DipSocStuds, 17. *Town & regional planning*: DipTRP, 2.

# MONASH UNIVERSITY\*

Founded and incorporated 1958

Postal Address : Box 92 P.O., Clayton, Victoria, Australia

Cables and Telegrams : Monashuni, Melbourne

Telephone : 544-0481

CHAIRMAN OF INTERIM COUNCIL—R. R. BLACKWOOD, MCE BEE *Melb.*, MIEAust.

VICE-CHANCELLOR—J. A. L. MATHESON, MBF, MSc *Manc.*, PhD *Birm.*, MCE *Melb.*, MICE

REGISTRAR—FRANCIS HENRY JOHNSON, MA *Oxon.*

DEAN OF MEDICINE—R. R. ANDREW, MD *Melb.*, FRCP, MRACP

LIBRARIAN—E. H. CLARK, BA *Melb.*

## TEACHING STAFF

### Anatomy

.....

Prof.

Bradley, D., BA *Melb.* & *Camb.*  
Green, Mrs. Dorothy, MA *Syd.*  
1 Tutor

Sr. Lectr.  
Lectr.

### Biology

Marshall, A. J., DPhil DSc *Oxon.*

Prof.

Ealey, E. H. M., MSc *Syd.*

Sr. Lectr.

Hiscock, I. D., MSc PhD *Adel.*

Sr. Lectr.

Williams, W. D., BSc PhD *Liv.*

Lectr.

2 Demrs., 1 Lab. Manager

### History

Legge, J. D., MA *Melb.*, DPhil *Oxon.*

Prof.

Serle, A. G., BA *Melb.*, DPhil *Oxon.*

Sr. Lectr.

Cuthbert, D. D., MA *N.Z.*

Lectr.

1 Tutor

### Chemistry

Brown, R. D., PhD *Lond.*, MSc *Melb.*

Prof.

Eastwood, F. W., MSc *Syd.*

Sr. Lectr.

Wilson, I. R., MSc *Syd.*, PhD *Q'ld.*

(from 1/7/61) Sr. Lectr.

Heffernan, M. L., PhD *Melb.*

Lectr.

O'Dwyer, M. F., MSc *Syd.*, PhD *Flor.*

Lectr.

2 Demrs., 1 Lab. Manager

### Mathematics

Westfold, K. C., MA BSc *Melb.*, DPhil  
*Oxon.*

Prof.

.....

Sr. Lectr.

.....

Lectr.

1 Tutor

### Modern Languages

Barrell, R. A., MA BSc *N.Z.*, DU *Paris*

Sr. Lectr.

### Economics and Political Science

Cochrane, D., PhD *Camb.*

Prof.

.....

Sr. Lectr.

.....

Lectr.

1 Tutor

Bodi, I., PhD DipEd *Bud.*

Sr. Lectr.

Redmond, Mary, MA *Melb.*

Lectr.

1 Tutor

### Engineering

Hunt, K. H., MA *Oxon.*, MMEchE *Melb.*

Prof.

Crisp, J. D. C., ME *Adel.*

Sr. Lectr.

Murray, N. W., BE *Melb.*, PhD *Manc.*

Sr. Lectr.

Phillips, J. A., BSc *Melb.*

Sr. Lectr.

Sinclair, C. G., BScTech *Manc.*, MSc *Alta.*,

Lectr.

PhD *Syd.*

1 Lab. Manager

### Philosophy

.....

Prof.

.....

Lectr.

### Physics

Street, R., MSc PhD *Lond.*, FIP

Prof.

.....

Sr. Lectr.

Smith, J. H., BSc *Nott.*

Lectr.

2 Tutors, 1 Lab. Manager

### English

Scott, W. A. G., BLitt *Oxon.*, BA *Melb.*

Prof.

.....

Prof.

### Physiology

\* Member of the Association of Universities of the British Commonwealth

## ADMINISTRATIVE STAFF

Asst. Registrar: J. D. Butchart, BA *Melb.*,  
BEd *Syd.*; Admin. Assts.: V. Brownie, BA *Syd.*;  
Mrs. Joan A. Dawson, BA *Melb.* Accountant:

I. B. Tate, BCom *Melb.* Staff Architect: W. C. A.  
Wheatland, BArch *Melb.* Chief Clerk: G. R.  
House.

## GENERAL INFORMATION

Monash Univ., which has been named after Sir John Monash, a distinguished Victorian soldier and engineer, was establd. by the govt. of Victoria in 1958 to meet the pressure on the Univ. of Melbourne of a rapidly growing population of young people. A permanent council will be apptd. in 1961 but prelim. plans have been made by an interim council of 25 persons widely representative of academic and professl. life in Victoria which apptd. consulting architects to advise on the development of the 250-acre site at Clayton, a suburb some 12 miles east-south-east from the city of Melbourne. Instrucn. begins in 1961 in facs. of arts, econ. & pol. sci., engin. (civil, mech., electr., chem.), med., and sci., involving initially the disciplines of Engl., hist., mod. langs., philos., econ. & pol. sci., biol., chem., maths. and phys. Units of 2nd-yr. grade, incl. those needed for the courses of 2nd-yr. med. and engin., will be added in 1962. Higher degrees are offered from inception. The plans provide for completion by 1968, when Monash is expected to have some 8000 students, and a 3rd univ. will be required.

Minimum entrance requirements will be similar to those applying at the Univ. of Melbourne except that there will be no fac. prerequisites.

The consulting architects' plan provides for the siting of the various buildings in the form of a splayed 'U', the open end of which faces eastwards towards the distant Dandenong Ranges. The bldgs. will be on the more elevated portion of the grounds, and areas for residential colls., providing accomm. for some 4000 students, have been reserved in the S.E. and N.E. corners. There will be space for sports grounds between the 2 residential areas. The sci. bldgs., which will provide the accomm. needed for the whole univ. in 1961, are now being erected at the W. end of the site. Architects have been apptd. for the arts, engin. and med. schs. and for the admin. bldg.

It is expected that the bldg. programme will extend over some 10 yrs. and cost more than £A20,000,000, exclusive of the hosp. Finance is being provided by the Victorian state and Australian federal govts.

# UNIVERSITY OF NEW ENGLAND\*

Incorporated 1954 ; previously established as New England University College, 1938

*Postal Address* : Armidale, New South Wales, Australia

*Cables and Telegrams* : University, Armidale

*Telephone* : Armidale 2231

VISITOR—H.E. THE GOVERNOR OF NEW SOUTH WALES

CHANCELLOR—The Rt. Hon. Sir EARLE PAGE, GCMG, CH, MB ChM *Syd.*, Hon. DSc *Syd.*, *N.S.W.*  
*N.E. & Q'ld.*, FRCS, FRACS

DEPUTY CHANCELLOR—P. A. WRIGHT, Hon. DSc

VICE-CHANCELLOR—R. B. MADGWICK, DPhil *Oxon.*, MEc *Syd.*

PRO VICE-CHANCELLOR—D. HOWIE, MA *W.Aust.*, PhD *Lond.*

REGISTRAR—T. C. LAMBLE, BA *Syd.*

ACCOUNTANT—.....

LIBRARIAN—F. H. ROGERS, MA *Brist.*, FLA

## TEACHING STAFF

[†=Part-Time]

### Agricultural Economics

Lewis, J. N., BEc *Syd.*, MPA *Harv.* Prof.  
Candler, W. V., MAgrSc *N.Z.*, PhD *Iowa* Sr. Lectr.  
Waring, E. J., BScAgr *Syd.* Sr. Lectr.  
Pearse, R. A., MScAgr *W.Aust.* Lectr.  
Musgrave, W. F., MScAgr *Syd.* Lectr.  
..... Lectr.  
..... Lectr.  
..... Lectr.  
..... Lectr.  
..... Lectr.  
2 Res. Fellows, 2 Res. Assts., 1 Grad. Asst.

### Botany

Beadle, N. C. W., DSc *Syd.* Prof.  
Davis, Mrs. Gwenda L., BSc PhD *Syd.* Assoc. Prof.  
Boyd, R. A., BSc *Durh. & Oxon.* Lectr.  
Williams, J. B., BSc *Syd.* Lectr.  
Green, J. W., MSc *W.Aust.* Lectr.  
2 Temp. Lectrs., 4 Demrs.

### Chemistry

Inorganic and Physical  
Stokes, R. H., DSc *N.Z.*, PhD *Camb.*,  
FRACI, FRIC, FAA Prof.  
Robinson, R. A., OBE, PhD *Birm.*, DSc *Birm.*  
& *N.Z.*, FRIC, FNZIC Reader  
Dudley, F. B., BSc *Melb.*, PhD Sr. Lectr.  
Stimson, V. R., BSc DipEd *Syd.* Sr. Lectr.  
Fielding, P. E., MSc *Syd.*, PhD *N.S.W.* Lectr.  
8 Demrs.

### Organic

Riggs, N. V., BSc *Adel.*, PhD *Camb.* Assoc. Prof.  
Lewis, K. G., BSc *Adel.*, PhD Sr. Lectr.  
Banfield, J. E., MSc PhD *Melb.* Lectr.  
..... Lectr.  
3 Demrs.

### Classics

Bishop, J. H., MA *Camb.* Prof.  
Letters, F. J. H., MA LLB *Syd.*,  
Hon. DLitt *N.U.I.* Assoc. Prof.  
Kelly, M. N., MA DipEd *Syd.* Sr. Lectr.  
Dale, W. A., BA *Tor.*, MA PhD *Calif.* Lectr.  
McCready, A. G., BA *Q'ld.* Lectr.  
..... Lectr.  
..... Lectr.  
1 Tutor

### Economics

Belshaw, J. P., MA *N.Z.*, PhD *Manc.* Prof.  
Duncan, R., MA *Adel.* Sr. Lectr.  
Bieda, K., MA *Aberd.* Sr. Lectr.  
Boehm, E. A., AUA MEc *Adel.* Sr. Lectr.  
Nevile, J. W., BA *W.Aust.*, MA *Calif.* Lectr.  
Clayton, R. E., BEc *Syd.*, Dip *Stockholm* Lectr.  
McKee, A. F., MA *N.Z.*, DU*Paris* Lectr.  
Davies, P. H., BA BEc *Syd.* Lectr.  
Crew, N. D., BCom *Melb.* Res. Fellow  
4 Tutors, 1 Grad. Asst.

### Education

..... Prof.

\* Member of the Association of Universities of the British Commonwealth

Bassett, G. W., PhD *Lond.*, MA  
DipEd *Syd.* †Actg. Prof.  
Olphert, W. B., MA DipEd *N.Z.* Sr. Lectr.  
Katz, F. M., MA BEd *Melb.* Lectr.  
Bewley, D. R., MA *Oxon.*, BEd *Edin.* Lectr.  
4 Lectrs.†

**English**

Piper, H. W., BA *Adel.*, MA *Oxon.* Prof.  
McKenzie, K. A., MA DipEd *Melb.*,  
DUParis Assoc. Prof.  
O'Brien, C. J. H., MA *Syd.* Sr. Lectr.  
Liggins, Elizabeth M., MA *Syd.*,  
PhD *Lond.* Sr. Lectr.  
Davison, D., MA *Sheff.* Lectr.  
Clark, C., BA *W.Aust.*, MA *Oxon.* Lectr.  
Ryan, J. S., BA *Oxon.*, MA *N.Z.* Lectr.  
Hoddmott, W. G., MA DipEd *Oxon.* Lectr.  
Rand, F. H., BA *Qu.*, MA *McG.*,  
DUParis Lectr.  
1 Temp. Lectr.

**French**

Davies, J. C., BA DipEd *Syd.*, DUParis Prof.  
Blanche, Isabel M., BA *Syd.*,  
Dd'EU Paris Sr. Lectr.  
Marshall, F. W., MA *N.Z.*, DUParis Lectr.  
2 Temp. Lectrs.

**Geography**

Butland, G. J., BA PhD DipEd *Birm.* Prof.  
Thorpe, E. W. R., BSc *Syd.* Sr. Lectr.  
King, H. W. H., MA DipEd *Syd.*,  
PhD *A.N.U.* Sr. Lectr.  
Chapman, E. C., MA *Syd.* Lectr.  
Woolmington, E. R., MA *Syd.* Lectr.  
Fitzpatrick, E. A., BA *Wash.*, MA *Syd.* Lectr.  
Plummer, B., BA *Wales* Lectr.  
Holmes, J. H., MA DipEd *Syd.* Lectr.  
1 Temp. Lectr., 3 Demrs.

**Geology**

Voisey, A. H., DSc *Syd.* Prof.  
Wilkinson, J., MSc *Q'ld.*, PhD *Camb.*  
Assoc. Prof.  
Campbell, K. S. W., MSc PhD *Q'ld.* Sr. Lectr.  
Stanton, R. L., MSc PhD *Syd.* Sr. Lectr.  
Harrington, H. J., MSc *N.Z.*, DPhil *Oxon.* Lectr.  
1 Res. Asst., 4 Demrs.

**German**

Coghlan, B. L. D., PhD *Birm.* Prof.  
Holloway, F., BA DipEd *Wales*, MA *Oxon.*  
Sr. Lectr.  
McGill, I. K., AUA MA *Adel.* Lectr.  
2 Temp. Lectrs.

**History**

Williams, C. M., BA *Melb.*, DPhil *Oxon.* Prof.  
Tapp, E. J., MA *N.Z.* Assoc. Prof.

Dalton, B. J., MA *N.Z.*, DPhil *Oxon.* Sr. Lectr.  
Turner, L. C. F., MA *Rand* Sr. Lectr.  
Ward, R. B., MA DipEd *Adel.*,  
PhD *A.N.U.* Sr. Lectr.  
Walker, R. B., BA *Liv.*, MA *Syd.* Lectr.  
Getzler, I., BA *Melb.* Lectr.  
Jones, G. F. T., MA *N.Z.*, DPhil *Oxon.* Lectr.  
Fraser, E. M., MA *N.Z.*, BA *Camb.* Lectr.  
McBryde, I., MA *Melb.*, DipPrehistArch  
*Camb.* Lectr.  
2 Temp. Lectrs., 3 Tutors

**Mathematics**

Smith, R. C. T., MA BSc *Melb.*,  
DPhil *Oxon.* Prof.  
Taylor, N. W., MSc *Syd.*, PhD Sr. Lectr.  
Horadam, A. F., BEd *Melb.*, MA PhD  
DipEd *Syd.* Sr. Lectr.  
Horadam, Mrs. E. Mollie, MA *Camb.*,  
BSc(Eng) *Lond.* Lectr.  
Majstrenko, P., MA *Copenhagen* Lectr.  
Burr, E. J., MSc *Q'ld.* Lectr.  
Lush, P. E., MA PhD *Melb.* Lectr.  
2 Tutors, 1 Grad. Asst.

**Philosophy**

Grey, D. R., MA *Oxon.* Prof.  
McIntosh, G. F., BA *Syd.* Sr. Lectr.  
Russell, A. C., BA *Syd.* Sr. Lectr.  
Goddard, L., MA BPhil *St.And.* Sr. Lectr.  
Robinson, E. B., MA LLB *N.Z.* Lectr.  
Llewelyn, J. E., BA *Wales*, MA *Edin.* Lectr.  
Kovesi, J. G., BA *W.Aust.*, BPhil *Oxon.* Lectr.  
1 Temp. Lectr.

**Physics**

Somerville, J. M., MA *Camb.*, DSc *Syd.*,  
FIP Prof.  
Smith, R. A., BSc PhD *Syd.* Sr. Lectr.  
Landecker, K., DIng *Berl.* Sr. Lectr.  
Hibberd, F. H., BSc *W.Aust.*,  
MSc PhD *Syd.* Sr. Lectr.  
Haydon, S. C., MA *Oxon.*, PhD *Wales* Sr. Lectr.  
Fletcher, N. H., BSc *Syd.*, MA PhD *Harv.* Sr. Lectr.  
Schroder, G. A., DipVorp DiplHaup *Hamburg*  
Res. Fellow  
1 Temp. Lectr., 5 Demrs.

**Psychology**

Howie, D., MA *W.Aust.*, PhD *Lond.*,  
DipEd Prof.  
Barratt, P. E. H., MA *Syd.* Sr. Lectr.  
Gabriel, J., BA PhD *Lond.* Sr. Lectr.  
Feather, N. T., BA DipEd *Syd.*, MA Lectr.  
Savage, R. D., BA *Durh.* Lectr.  
McDonald, R. P., BA MSc *Syd.* Lectr.  
1 Temp. Lectr., 2 Demrs.

**Zoology**

O'Farrell, A. F., BSc *Lond.* Prof.  
Stock, A., PhD *Vienna & Edin.* Assoc. Prof.

Murray, P. D. F., DSc *Syd.*, Hon. MA *Camb.*,  
BSc *Oxon.* Reader  
Brereton, J. Le G., BSc *Syd.*,  
DPhil *Oxon.* Sr. Lectr.  
de Bavay, J. M., BSc *Tas.* Lectr.  
Giles, E. T., MSc N.Z., PhD *Lond.* Lectr.  
McKenzie, R. J., MSc *Melb.* Lectr.  
7 Demrs.

## RURAL SCIENCE

### Agronomy

Roe, R., BSc(Agric) *W.Aust.* Hon. Assoc. Prof.  
Veale, J. A., MSc N.Z., DIC, PhD *Lond.*  
..... Sr. Lectr.  
McGarity, J. W., MScAgr PhD *Syd.* Sr. Lectr.  
..... Lectr.  
1 Demr.

### General

Patchell, M. R., MAgrSc N.Z. Sr. Lectr.  
Lindsay, D. B., BSc MA DPhil *Oxon.* Sr. Lectr.  
Passey, R. F., BScAgr *Syd.*, PhD *McG.* Lectr.  
Mackinnon, M. M., BSc *Edm.* Lectr.  
Stephenson, S. K., MSc N.Z., PhD *Syd.* Lectr.  
..... Lectr.  
2 Demrs., 3 Lectrs.†

### Livestock Husbandry

Yeates, N. T. M., DAgrSc *Q'ld.*,  
PhD *Camb.* Assoc. Prof.  
Ryder, M. L., MSc PhD *Leeds* Sr. Lectr.  
Diamond, D. R., BVSc PhD *Syd.*,  
MAgrSc N.Z. Lectr.

## Nutrition and Chemical Pathology

McClymont, G. L., BVSc *Syd.*, PhD *Camb.* Prof.  
Annison, E. F., PhD *Lond.*, FRIC Sr. Lectr.  
Cumming, R. B., BVSc *Pret.* Lectr.  
..... Lectr.  
White, R. R., BSc *Lond.* & N.Z. Res. Fellow  
1 Demr.

## Physiology

Evans, J. V., BVSc *Syd.*, BSc N.Z. Assoc. Prof.  
Williams, J. V., MScAgr *W.Aust.* Lectr.  
..... Lectr.  
Blunt, M. H. Res. Fellow  
1 Demr.

## EXTERNAL STUDIES

Sheath, H. C., BSc BE *Syd.* Dir.  
Hopper, M. W., BSc DipEd *Syd.*, BA Asst. Dir.  
Pittendrigh, G. B., BA DipEd *Syd.* Res. & Information Officer  
Lancaster, J. K. Admin. Officer

## ADULT EDUCATION

Nelson, A. J. A., BA *Adel.* Dir.  
Howard, A. C. M., BA *Syd.*, BEd *Melb.* Sr. Lectr.  
Praed, J. M., BA *W.Aust.* Sr. Lectr.  
Warburton, J. W., MA N.Z. Sr. Lectr.  
Dunton, A. F., BA BEd *Q'ld.* Lectr.  
Shaw, J. H., MSc DipEd *Syd.* Lectr.  
1 Grad. Asst.

## ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE. Asst. Registrars: K. R. Long, BA *Syd.*; R. McCaig, BA *Q'ld.*; F. P. Smith, BCom *Melb.* Clerk of Exams.: Evangeline Harris. Asst. Accountants: W. Dodds; S. T. Collinson Smith.

CHAPLAINS. Rev. M. McGregor, BA (Anglican); Rev. A. Ebbs (R.C.); Rev. N. McLeod (Presbyterian)†; Rev. J. S. Udy, BA *Syd.*, STB *Boston*, PhD *Harv.* (Methodist)†.

BUILDINGS AND GROUNDS. Supervisor: R. K. Lindsay, BE *Syd.*

LIBRARY. Dep. Librarian: V. Crittenden, BA *Syd.*, BLS *Tor.*, BSc(Econ) *Lond.* Asst. Librarians: Edith M. Tattersall, BA *W.Aust.*; Winifred R. Richardson, BA *Q'ld.* Archivist: R. J. McDonald, BA DipEd *Syd.*

## COLLEGES WITHIN THE UNIVERSITY

DUVAL COLLEGE (tel.: Armidale 3528). For women. Principal—G. Audrey Rennison, MA *Camb.*, CertSocSc&Adm *L.S.E.*

MARY WHITE COLLEGE (tel.: Armidale 3140). For women. Principal—F. Mary Bagnall, MA *Melb.*

ROBB COLLEGE (tel.: .....). For men. Master—B. C. J. Meredith, OBE, BA *Melb.*, DipEd.

WRIGHT COLLEGE (tel.: Armidale 3141). For men. Master—A. Treloar, MA *Melb.* & *Oxon.*

## GENERAL INFORMATION

In 1938, at the request of the citizens of northern N.S.W., the New England Univ. Coll. was establ. as a branch of the Univ. of Sydney. The coll. thus became the first experiment in univ. decentralization in Australia. Teaching began in 1938 in the fac. of arts with an enrolment of 19 and in the fac. of sci. the following yr.

In 1953, following representations over a number of yrs., the Univ. of New England was establ. by act of the N.S.W. parliament and granted autonomy from Feb. 1, 1954.

**CONSTITUTION.** The univ. consists of the council, convocation, postgrad. and undergrad. students. The governing authority of the univ. is the council, which consists of 6 members apptd. by the governor, the director general of educn. of N.S.W., the principal of the Armidale Teachers' Coll., the vice-chancellor, 4 reps. of the teaching staff, 6 elected by convocation, one by undergrads. and 4 by members of council. The chancellor, who is elected by council, is the head of the univ., and the vice-chancellor is the chief executive officer. The sr. academic body of the univ. is the bd. of studies, which consists of the vice-chancellor, profs. and hds. of depts.

**INCOME (1959).** *For general univ. purposes:* £A865,013 (commonwealth govt., 15 per cent.; state govt., 66 per cent.; residential fees & sale of farm products, 11 per cent.; tuition fees, etc., 8 per cent.). *For bldgs., etc.:* state govt., £A300,000, commonwealth govt., £A435,600.

**FACULTIES AND DEANS.** *Agric. econ.,* Prof. J. N. Lewis; *arts, . . . ; sci.,* Dr. F. H. Hibberd (phys.); *rural sci.,* Prof. G. L. McClymont.

**UNIVERSITY PRECINCT.** The univ. site consists of some 1300 acres 3 mls. from Armidale, and includes a 400-acre farm. The original bldg. on the site, 'Boooloominbah', an old country homestead, provides a headquarters for the admin. staff and a coll. dining room. A mod. union bldg. has been built together with a temp. library, teaching and lab. blocks.

**LIBRARY.** Dixon library: about 76,000 vols.; subscribes to 1500 periodicals. Addl. 14,000 vols. (for use of external students) housed in pub. libr. of New South Wales, Sydney.

**LABORATORIES.** *Agric. econ., bot., chem., geol., phys., rural sci., zool.*

**FIELD STATION** for res. into properties of the ionosphere. In the univ. grounds are the labs. connected with a large C.S.I.R.O. field res. stn. of 4500 acres situated about 10 mls. from Armidale. The **UNIV. FARM** of 400 acres provides facilities for field studies connected with the fac. of rural sci.

The **ARMIDALE TEACHERS' COLLEGE** provides facilities for teacher trainees who are undertaking univ. courses and for grads. who are pursuing the dipl. in educn. course.

**ADMISSION.** See Appendix II.

**NON-MEMBERS OF THE UNIVERSITY.** Anyone wishing to attend univ. lectures may do so upon payment of such fees as the council may from time to time direct, provided that any such person must obtain the approval of the fac. concerned before attending lectures and (if at time of entry he is qualified to do so) he matriculates.

**FIRST DEGREES.** 3 yrs.—BA pass, BSc pass; 4 yrs.—BA hons., BSc hons.; BRurSc pass, hons.; BA GEc pass, hons.

**Main specializations for first degrees.** *Arts:* classics, Latin, Greek, econ., educn., Engl., French, German, geog., hist., maths., philos., psychol. *Sci.:* bot., org. chem., phys. chem., geog., geol., maths., phys., zool. *Rural sci.:* physiol., livestock husb., nutrition & chem. pathol., agron., biochem., genetics, pathol. & livestock health. *Agric. econ.:* farm management, marketing & distribution, econ. stats., econ.

The lecture time-table is so arranged that evg. students may study pt.-time and complete a BA degree.

**HIGHER DEGREES.** MA—3 yrs. from BA pass, 2 yrs. from BA hons.; MSc—1 yr. from BSc hons., 2 yrs. for grads of other univs.; MRurSc—1 yr. from BRurSc; MAGEc—2 yrs. from 1st degree; PhD—available in all facs. 3 yrs. from 1st degree; DLitt—8 yrs. from 1st degree; DSc—awarded for substantial and original contribution to knowledge and understanding of a subj. within scope of fac. Grads. of other univs. are required to have at least 2 yrs.' assocn. with the univ. before presenting a thesis for a higher degree.

DLitt and DSc also awarded as honorary degrees.

**EXTERNAL TUITION.** Courses leading to BA pass degree are offered by correspondence, but only persons resident in N.S.W. who cannot attend a local univ. (Sydney, Newcastle, Canberra, Armidale) can be considered for external enrolment. External courses leading to DipEd (Secondary Teaching) and DipEdAdmin offered to grads. resident in N.S.W.

**DIPLOMAS.** DipEd (1 yr. for internal students, 2 yrs. for external students); offered internally in secondary, primary or infants teaching and externally in secondary teaching or admin. of educn. DipEdAdmin (external only, 2 yrs. postgrad.).

**RESEARCH.** The usual facilities for postgrad. res. are provided in the various depts.

**STUDY LEAVE.** 1 yr. on salary after completion of 6 yrs.' service for full-time members of teaching staff.

**FEES.** Matric., £A3; degree courses in arts: (pass, 3 yrs.) £A276, (hons., 4 yrs.) £A327; degree courses in sci.: (pass, 3 yrs.) £A366, (hons., 4 yrs.) £A436, (pass, 4 yrs.) £A388; degree courses in rural sci.: (pass and hons., 4 yrs.)

£A488 ; degree courses in agric. econ. (pass and hons., 4 yrs.), £A380 ; DipEd, £A90.

ACADEMIC YEAR. March to Dec. (3 terms of 10 wks. each).

ADULT EDUCATION. The dept. of adult educn. is responsible for a substantial programme of residential and non-residential courses, primarily in the fine arts, lit., rural sci., soc. scis. and community affairs. Experimental work in rural adult educn. is being undertaken. The dept. provides an advisory service to rural communities on their developmental problems.

PRINCIPAL 'OPEN' ENTRANCE AWARDS. Commonwealth scholps. (all facs., see p. 12) ; Teachers' College scholps. (facs. of arts, sci. and rural sci.) ; State Dept. cadetships and traineeships (facs. of rural sci. and agric. econ.) ; Aust. Agric. Council scholps. (facs. of rural sci. and agric. econ.).

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS. Commonwealth scholps. (all facs.) ; I.C.I.A.N.Z. res. fellowships (all facs.) ; General Motors-Holden's Ltd. res. fellowships (all facs.) ; Wool res. fellowships (all facs.) ; C.S.I.R.O. postgrad. studentships (all facs.) ; Aust. Atomic Energy Commission postgrad. studentships.

STUDENT RESIDENCES. The univ. is completely residential. All internal students are required to live in univ. colls. or residences except those who live in Armidale with their family or guardian. At the 4 colls. within the univ. (see p. 57), there is accomm. for 594 students (Duval Coll., 122 women ; Mary White Coll., 96 women ; Robb Coll., 192 men ; Wright Coll., 184 men). Full board and lodging in colls. or residences costs £A140 per academic yr. and £A5 per wk. out of term.

STAFF RESIDENCES. The univ. has a small no. of furnished houses available for rent by new staff for short periods. Finance available on mortgage to full-time academic staff and other approved members through the univ. bankers to buy or build a house (max. advance : 90 per cent. of valuation).

UNIVERSITY MILITARY FORMATION. 'D' Co. of the Sydney Univ. Regiment is recruited at the univ.

STUDENT HEALTH SERVICE. Each student is required to contribute £A8 : 8s. 9d. yearly to a med. fund which entitles him, under certain conditions, to free med. treatment while in residence.

SPORT. An active sports union provides for all major sporting activities. The Consett Davis memorial playing fields provide for football, hockey, tennis, baseball and basket-ball.

THE STUDENTS' REPRESENTATIVE COUNCIL is elected from and by students to speak and act on their behalf in matters involving their relationship with other members and bodies of the univ.

UNION. T. R. Forster memorial union, completed in 1956, provides reading rooms, common rooms, cafeteria, etc., for students and staff ; post office, savings bank agencies and shopping facilities available. Governed by a bd. of management representing staff and students.

PUBLICATIONS. *Calendar* (biennially), *Handbook* (annually), *Bulletin* (3 issues p.a.), *Neucleus* (student newspaper, fortnightly, during term). *Magazines of the Arts and Science Soc's.* (annually). *Monographs on New England Regional Research* (occasional).

## THE YEAR 1959

BENEFACTIONS. Total value of *all* benefactions received : £A60,856.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed* : 1st stage Robb Coll., geol./geog. schs., (substantially completed) rural sci.

RESIGNATIONS. I. M. Lonie (classics), apptd. lectr., Syd. ; D. M. Lamberton (econ.), apptd. to Nuffield Coll., Oxford ; Audrey L. Savill (Engl.), apptd. temp. lectr., Syd. ; E. C. Fry (hist.), apptd. sr. lectr., Canberra U.C. ; J. Scarnell (rural sci.), apptd. vet. surgeon, Equine Res. Stn., Camb. ; B. R. Maley (admin.), apptd. sec. Postgrad. Med. Cttee., Syd.

DEATHS. J. S. Stimson (bursar).

### Statistics

#### STUDENT NUMBERS, 1960

(as at the beginning of the academic year)

	Full-Time	Part-Time*	External
Men . . .	343	69	1132
Women . .	232	25	314
Total . . .	575	94	1446

Part-time students are those taking half or less of the normal subjects in any year

Distribution by Faculties. *Agric. econ.*, 26 ; *arts*, 1573 ; *rural sci.*, 100 ; *sci.*, 170. Postgrad. students (incl. 111 DipEd), 237. Total : 2115.

*Included in the figures above are:—*

Postgraduate students, 237.

New admissions, 984 (incl. 751 external students).

Students from other countries, 26. (Country from which largest numbers came : Malaya, 10).

DEGREES AWARDED (1959). *Arts* : MA (hons.), 1 ; BA (hons.), 11 ; BA, 105. *Sci.* : MSc, 4. Total number of first degrees awarded, 116.

DIPLOMAS AWARDED (1959). DipEd, 78.



# UNIVERSITY OF NEW SOUTH WALES\*

Incorporated in 1949 as The New South Wales University of Technology

Postal Address : Box 1, Post Office, Kensington, New South Wales, Australia

Cables and Telegrams : Unitech, Sydney

Telephone : 33.0351

CHANCELLOR—W. C. WURTH, CMG, LLB Hon. LL.D *Syd.*  
DEPUTY CHANCELLOR—The Hon. Mr. Justice J. S. J. CLANCY, LLB *Syd.*  
VICE-CHANCELLOR—J. P. BAXTER, CMG, OBE, BSc PhD *Birm.*, FAA, FRACI  
PRO-VICE-CHANCELLOR—D. W. PHILLIPS, BSc *Wales*, PhD *Camb.*, DipMetMin, FGS  
REGISTRAR—G. L. MACAULEY, BEC *Syd.*  
BURSAR—J. O. A. BOURKE, BA *Syd.*  
LIBRARIAN—J. W. METCALFE, BA *Syd.*, FLA

## TEACHING STAFF

### Accountancy

Smyth, E. B., FASA	Prof.	Burrows, K. R., BSc <i>W.Aust.</i>	Lectr.
Stewart, W. J. McK., BA BCom <i>Melb.</i>		Giutronich, J. E., BSc <i>Syd.</i>	Lectr.
	Assoc. Prof.	Godfrey, G. H., MA BSc <i>Syd.</i> , FIP	Lectr.
Airey, C. R., BA BEc BSc DipEd <i>Syd.</i>	Sr. Lectr.	Grainger, C. T., BSc DipEd <i>Syd.</i> , MSc <i>N.E.</i>	Lectr.
Burke, W. L., BA BEc <i>Syd.</i> , FASA	Sr. Lectr.	Hanscomb, J. R., BSc <i>Q'ld.</i>	Lectr.
Dryen, R. G.	Sr. Lectr.	Harris, R. W., BSc <i>Syd.</i>	Lectr.
Forster, A. A., FCIS, FASA	Sr. Lectr.	Johnson, G. J., BSc <i>Syd.</i>	Lectr.
McPherson, L. A.	Sr. Lectr.	Lang, M. McN., BSc	Lectr.
Bowles, G. N., BEc <i>Syd.</i>	Lectr.	Le Marne, A. E., BSc DipEd <i>Syd.</i>	Lectr.
Bowra, R. L., LLB <i>Syd.</i>	Lectr.	Marsden, K. H., BSc <i>Lond.</i> , MSc	Lectr.
Cook, W. G., BCom <i>Melb.</i>	Lectr.	Milledge, J. A., MSc DipEd <i>Syd.</i>	Lectr.
Gullick, C.	Lectr.	Schwartz, A., DipIng <i>Vienna</i> , MSc	Lectr.
Howitt, G., BEc <i>Syd.</i>	Lectr.	Segal, A. I., BSc <i>Melb.</i>	Lectr.
Levy, V. M., BEc <i>Syd.</i>	Lectr.	Shepanski, J. R., MSc <i>Syd.</i>	Lectr.
1 Tutor		3 Teaching Fellows, 6 Tech. Officers	

### Anatomy

Blunt, M. J., MB BS PhD *Lond.* Prof.

### Applied Physics

Milner, C. J., MA PhD <i>Camb.</i> , FIP	Prof.
Lederer, J., BSc <i>Syd.</i> , MSc	Assoc. Prof.
McConnell, J. F., MSc <i>Syd.</i> , PhD	Assoc. Prof.
O'Dwyer, J. J., BSc BE <i>Syd.</i> , PhD <i>Liv.</i>	Assoc. Prof.
Caddy, R. S., BSc DipEd <i>Syd.</i>	Sr. Lectr.
Curnow, C. E., BA MSc <i>Syd.</i>	Sr. Lectr.
Hansen, N. R., BSc DipEd <i>Syd.</i> , MSc	Sr. Lectr.
Lishmund, R. E., BSc PhD <i>St.And.</i>	Sr. Lectr.
Parry, L. G., BSc DipEd <i>Syd.</i> , MSc	Sr. Lectr.
Pollard, H. F., MSc <i>W.Aust.</i>	Sr. Lectr.
Amigo, G., BSc	Lectr.
Bowen, L. O., BE BSc <i>W.Aust.</i> , MSc	Lectr.

### Applied Psychology

Clark, J. F., MA BSc DipEd <i>Syd.</i> , PhD <i>Lond.</i>	Prof.
Davies, E. E., MA <i>Syd.</i>	Sr. Lectr.
Martin, R. T., BA DipPubAdmin <i>Syd.</i>	Sr. Lectr.
Olley, A. K., BA <i>Syd.</i>	Sr. Lectr.
Porebski, O., MA PhD <i>Lond.</i>	Sr. Lectr.
Andersen, W. E. C., BA DipEd <i>Syd.</i>	Lectr.
Carey, A. E., BSc <i>Lond.</i>	Lectr.
Clark, A. W., MA <i>Melb.</i>	Lectr.
Edmonds, Irene A., MA <i>Syd.</i>	Lectr.
Jarvis, W. A. H., BA DipEd <i>Syd.</i> , BEd <i>Melb.</i>	Lectr.
Kenna, C. P., BA BSc <i>Syd.</i>	Lectr.
Murray, J. C., BA <i>Syd.</i>	Lectr.
Yensen, R., MA <i>W.Aust.</i> , PhD <i>Camb.</i>	Lectr.
1 Tech. Officer	

\* Member of the Association of Universities of the British Commonwealth

**Architecture and Building**

Towndrow, F. E., FRIBA, FRAIA Prof.  
 Freeland, J. M., MArch DTRP *Melb.*

Assoc. Prof.

Anderson, N. J., BArch *Syd.*, MArch *Liv.*,  
 DipTP *Lond.*, FRAIA Sr. Lectr.

McDonell, G. H. B., BArch *Syd.*, FRAIA  
 Sr. Lectr.

Phillips, R. O., BArch *Syd.*, MArch Sr. Lectr.  
 Shaw, J. H., BE DipTCP *Syd.*, MCD *Liv.*

Spooner, P., DipLandscapeDes *Durh.* Sr. Lectr.  
 Sutton, R. G., SM *M.I.T.* Sr. Lectr.

Woolard, F., FRAIA Sr. Lectr.

Bazeley, N. F. Lectr.  
 Daniels, E. C. Lectr.

Dunphy, M. J., FRAIA Lectr.  
 Helsing, L., BArch *Syd.* Lectr.

Jack, A. A. Lectr.  
 Kollar, L. P. Lectr.

Lawrence, Mrs. Anita B., MArch Lectr.  
 Lennon, D., BArch *Syd.* Lectr.

Nimmo, Lorna M. Lectr.  
 Patrick, I. R. Lectr.

Purkis, A. E. R. Lectr.  
 Rice, F. E. B. Lectr.

Stevens, C. W. Lectr.  
 Styles, J. Lectr.

Thackray, R. N. Lectr.  
 1 Tech. Officer

**Biological Sciences**

Ralph, B. J. F., BSc *Tas.*, PhD *Liv.*,  
 FRACI Prof.

Barbour, R. G. H., BScAgr *Syd.*, MSc Sr. Lectr.  
 Hindmarsh, Mary M., BSc PhD *Syd.*

Moss, F. J., MB BS *Melb.* Sr. Lectr.  
 Rienits, K. G., MSc *Syd.*, PhD *Birm.* Sr. Lectr.

Stephenson, Mrs. Elsie M., MSc *N.Z.*,  
 PhD *Lond.* Sr. Lectr.

Crowden, R. K., BSc *Tas.* Lectr.  
 Goddard, C. K., BSc *Edin.*, PhD *St. And.* Lectr.

Hannon, Nola J., BSc PhD *Syd.* Lectr.  
 Macey, M. J. K., BSc *Lond.* Lectr.

O'Gower, A. K., MSc PhD *Syd.* Lectr.  
 Robinson, E. S., MSc *N.Z.*, PhD *Nebraska*

Lectr.

Shipp, E., BSc *Syd.* Lectr.  
 Teplitzky, D. R., BE BSc *N.Z.* Lectr.

Wood, A. F., BScAgr *Syd.* Lectr.  
 3 Teaching Fellows, 4 Tech. Officers, 2 Tutors

**Chemical Engineering**

Fowler, R. T., BSc *Wales*, PhD *Lond.*,  
 DScEng *Syd.* Prof.

Reuter, F. H., DrPhil *Berl.*, FRIC, FRACI  
 (Food Technol.) Assoc. Prof.

Buchanan, R. H., BSc *Corn.*, PhD Sr. Lectr.  
 Roper, G. H., MSc PhD Sr. Lectr.

Edwards, R. A., BSc Lectr.  
 Howard, F. O., BE *Syd.* Lectr.

Hunt, C. H. Lectr.  
 Norman, J. R., BSc PhD Lectr.

Souter, P., MSc *Syd.*  
 2 Teaching Fellows, 1 Tech. Officer

Lectr.

**Chemical Technology**

Ayscough, F. W., BSc *Syd.*, MSc Prof.  
 Connors, F. L., MSc PhD Sr. Lectr.

McCartney, E. R., BSc *Syd.*, PhD Sr. Lectr.  
 Fowler, H., MSc Lectr.

Haken, J. K., BSc Lectr.  
 Madden, B. G., BSc Lectr.

Oglethorpe, B. J., BSc Lectr.  
 Smith, J. D., BSc Lectr.

4 Tech. Officers

**Chemistry**

Mellor, D. P., DSc *Tas.*, FRACI  
 Prof., Hd. of Sch.

Angyal, S. J., PhD *Bud.*, FRACI (Org. C.) Prof.  
 Bosworth, R. C. L., PhD *Camb.*, DSc *Adel.*,

FRACI (Phys. C.) Assoc. Prof.

Cavill, G. W. K., MSc *Syd.*,  
 PhD DSc *Liv.*, FRIC Assoc. Prof.

Anderson, J. R. A., MSc, FRIC Sr. Lectr.  
 Backhouse, J. R., MSc *Syd.*, PhD Sr. Lectr.

Barclay, G. A., BSc PhD DipEd *Syd.* Sr. Lectr.  
 Bryson, A., MSc BAppSc *Q'ld.*, PhD Sr. Lectr.

Buchanan, G. S., MSc *Syd.* Sr. Lectr.  
 Carswell, D. J., MSc PhD DipEd *Syd.*

Sr. Lectr.  
 Cole, E. R., MSc *Syd.*, PhD Sr. Lectr.

Courtney, J. L., BSc PhD Sr. Lectr.  
 Davies, N. R., BSc PhD *Lond.*, FRIC Sr. Lectr.

Dunstan, W. J., MSc *Syd.* Sr. Lectr.  
 Eade, R. A., MSc *Syd.*, PhD *Liv.* Sr. Lectr.

Gascoigne, R. M., MSc *Syd.*, PhD *Liv.* Sr. Lectr.  
 Gellert, E., PhD *Basle* Sr. Lectr.

Graddon, D. P., MSc PhD *Manc.* Sr. Lectr.  
 Green, J. H., MSc *Q'ld.*, PhD *Camb.* Sr. Lectr.

Gutmann, F., PhD *Vienna*, FIP Sr. Lectr.  
 Harris, C. M., BSc PhD Sr. Lectr.

Lark, P. D., BEC *Syd.*, MSc Sr. Lectr.  
 Livingstone, S. E. M. R., BSc PhD Sr. Lectr.

Martin, L. W. O., BSc *Syd.* Sr. Lectr.  
 Martin, R. J. L., MSc *Melb.*, PhD *Lond.*

Sr. Lectr.  
 Simes, J. J., MSc DipEd *Syd.*, PhD *Liv.* Sr. Lectr.

Sutton, G. J., MSc PhD, FRACI, FRIC Sr. Lectr.  
 Werner, R. L., MSc PhD Sr. Lectr.

Aylward, G. H., MSc Lectr.  
 Clezy, P. S., BSc PhD *Tas.* Lectr.

Garnett, J. L., PhD *Chic.*, MSc Lectr.  
 Hall, F. M., MSc Lectr.

Hannon, W. K., MSc *Syd.* Lectr.  
 Johnson, W. D., BSc *Syd.*, MSc *N.E.* Lectr.

Lenzer, Mrs. Sidonie L., PhD *Vienna* Lectr.  
 Martin, E. C., MSc Lectr.

Morris, B. S., MSc *Syd.* Lectr.  
 O'Brien, K. G., MSc *Syd.*, PhD Lectr.

Stephenson, N. C., MSc *Syd.* Lectr.  
 Swinbourne, E. S., BSc PhD Lectr.

Taylor, C. R., BSc *Syd.* Lectr.  
 Watton, E. C., BSc Lectr.  
 10 Teaching Fellows, 13 Tech. Officers, 2 Demrs.

**Civil Engineering**

Munro, C. H., BE <i>Syd.</i>	Prof., Hd. of Sch. Prof.
.....	
Hall, A. S., DIC, BSc(Eng) <i>Lond.</i>	Assoc. Prof.
Vallentine, H. R., BE <i>Syd.</i> , MS <i>Iowa</i>	Assoc. Prof.
Archer, F. E., BSc BE <i>Syd.</i>	Sr. Lectr.
Armstrong, S., BScTech <i>Manc.</i> , PhD <i>Sheff.</i>	Sr. Lectr.
Balint, P., BE <i>Bud.</i> , ME	Sr. Lectr.
Brettle, H. J., DIC, BE <i>Syd.</i> , PhD	Sr. Lectr.
Carmichael, A. J., BE PhD	Sr. Lectr.
Hattersley, R. T.	Sr. Lectr.
Jenkins, J. L., BE <i>Syd.</i>	Sr. Lectr.
Kitchen, E. M., BE <i>Syd.</i>	Sr. Lectr.
Nettleton, A. F. S., DIC, BSc BE <i>Syd.</i> , ME	Sr. Lectr.
O'Connor, D. C., BE <i>Syd.</i> , ME	Sr. Lectr.
Richardus, P., GradGeodEng <i>T.H.Delft</i> , ME	Sr. Lectr.
Ryan, P. W. S., DIC, ME	Sr. Lectr.
Shuleshko, P., DiplEng <i>Poltava</i> , CandPhys&MathScs <i>Kharkov</i> , DrNatScs <i>Ukr.Tech.U. m Exile</i>	Sr. Lectr.
Watson, K. K., BE <i>Syd.</i> , ME	Sr. Lectr.
Welch, G. B., BE <i>Syd.</i> , ME	Sr. Lectr.
Wiesner, C. J., BSc <i>Adel.</i>	Sr. Lectr.
Bennett, G. G., BSurv <i>Melb.</i>	Lectr.
Burton, J. R., BE <i>Syd.</i>	Lectr.
Cridland, L., BE	Lectr.
Day, K. W., BSc <i>Manc.</i>	Lectr.
Douglas, A. G., ME	Lectr.
Douglas, D. J., BSc BE <i>Syd.</i>	Lectr.
Dudgeon, C. R., BE	Lectr.
Edwards, L. S., BCE <i>Melb.</i> , BEc <i>Syd.</i>	Lectr.
Fischer, H. K., DiplIng <i>T.H.Hanover</i>	Lectr.
Foster, D. N., BE <i>Syd.</i>	Lectr.
Frisch-Fay, R. A., BE <i>Bud.</i>	Lectr.
Howell, D. T., BE <i>Syd.</i>	Lectr.
Jones, P. B., BE <i>Syd.</i>	Lectr.
Junukis, T., BE	Lectr.
Laurenson, E. M., BE	Lectr.
Learmonth, J. R., BE <i>Syd.</i>	Lectr.
Newman, W. M., DIC, BSc <i>Lond.</i>	Lectr.
Patten, B. J. F., BE <i>Syd.</i>	Lectr.
Paull, J. W., BE <i>Syd.</i>	Lectr.
Pilgrim, D. H., BE	Lectr.
Somervaille, I. J., BE	Lectr.
Ward, O. G. F.	Lectr.
Wood, I. R., BE <i>N.Z.</i> , ME	Lectr.
Woodhead, R. W., BE <i>Syd.</i>	Lectr.
3 Teaching Fellows, 5 Tech. Officers	

**Drama**

Quentin, C. R. B., MA <i>Oxon.</i>	Assoc. Prof.
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**Economics**

Kemp, M., BCom MA <i>Melb.</i> , PhD <i>Johns H.</i>	Prof., Hd. of Sch.
Holmes, A., BA <i>W.Aust.</i> , MA <i>Camb.</i>	Sr. Lectr.
Kubinski, Z. M., MA <i>Leeds</i>	Sr. Lectr.
Layton, R. A., BEc <i>Syd.</i>	Sr. Lectr.
Rivett, K. D., MA PhD <i>Melb.</i>	Sr. Lectr.
Rowley, Sheila, MA <i>W.Aust.</i> , MSc PhD <i>N.Carolina</i>	Sr. Lectr.
Soper, C. S., BCom <i>Melb.</i>	Sr. Lectr.

Child, J., BCom MA <i>N.Z.</i> , DPhil <i>Oxon.</i>	Lectr.
Hughes, Mrs. Helen, MA <i>Melb.</i> , PhD <i>Lond.</i>	Lectr.
Kmenta, J., BEc <i>Syd.</i> , AM <i>Stan.</i>	Lectr.
McCarty, J. W., BCom <i>Melb.</i>	Lectr.
Runcie, N., BEc <i>Syd.</i>	Lectr.
1 Teaching Fellow	

**Electrical Engineering**

Vowels, R. E., ME <i>Adel.</i>	Prof., Hd. of Sch.
Lampard, D. G., MSc <i>Syd.</i> , PhD <i>Camb.</i>	Prof.
Broadbent, D., BSc <i>Birm.</i> , MEngSc PhD <i>Melb.</i>	Assoc. Prof.
Blake, A. P., BSc BE <i>Syd.</i>	Sr. Lectr.
Clarke, R. H. J., BE	Sr. Lectr.
Dewsnap, G. C., MEE <i>Melb.</i>	Sr. Lectr.
Donaldson, G. W., MA BSc <i>Oxon.</i> , BE <i>Q'ld.</i>	Sr. Lectr.
Ehlers, W. W. T. H., DrNatScs <i>Hamburg</i>	Sr. Lectr.
Gilbert, C. P., MSc <i>Durh.</i>	Sr. Lectr.
Hopkins, E. G., BE PhD	Sr. Lectr.
Huey, R. M., BSc BE <i>Syd.</i>	Sr. Lectr.
Mortimer, E. L., BSc(Eng) <i>Lond.</i>	Sr. Lectr.
Parker, G. J., BSc BE <i>Syd.</i>	Sr. Lectr.
Smart, R. G., BE	Sr. Lectr.
Thornton, B. S., MSc <i>Syd.</i> , PhD	Sr. Lectr.
Brown, R. F., BE <i>Liv.</i>	Lectr.
Charlton, W. H.	Lectr.
Cole, D. J., BEE <i>Melb.</i>	Lectr.
Edwardes, H. N., BSc BE <i>Syd.</i>	Lectr.
Goddard, B. R., BSc BE <i>Syd.</i>	Lectr.
Harrison, H., BSc BE <i>Syd.</i>	Lectr.
Hill, L. C., BE	Lectr.
Humphries, H. L., BSc BE BEc <i>Syd.</i>	Lectr.
Karoly, G., BEE <i>Melb.</i>	Lectr.
Lamb, C. St. J., BE	Lectr.
Pawloff, O., DiplIng <i>Berl.</i>	Lectr.
Stapleton, C. A., BSc BE <i>Syd.</i>	Lectr.
3 Teaching Fellows, 7 Tech. Officers	

**English**

Oliver, H. J., MA <i>Syd.</i>	Prof.
Burgess, O. N., MA DipEd <i>Syd.</i>	Sr. Lectr.
Elkin, P. K., BA DipEd <i>Syd.</i> , BLitt <i>Oxon.</i>	Sr. Lectr.
Geering, R. G., MA DipEd <i>Syd.</i>	Sr. Lectr.
Ginges, A. M., BA <i>Syd.</i>	Sr. Lectr.
Couper, J. M., MA PhD <i>Aberd.</i>	Lectr.
Heseltine, H. P., BA <i>W.Aust.</i> , MA PhD <i>Louisiana</i>	Lectr.
Kramer, Mrs. Leonie, BA <i>Melb.</i> , DPhil <i>Oxon.</i>	Lectr.
Tick, S., MA <i>N.Y.</i>	Lectr.

**Highway Engineering**

Orchard, D. F., DIC, BSc PhD <i>Lond.</i>	Prof.
Cumming, D. A., MA <i>Oxon.</i>	Sr. Lectr.
Spencer, L. C., BE	Sr. Lectr.
1 Tech. Officer	

**History**

.....	Prof.
Nairn, N. B., MA <i>Syd.</i>	Sr. Lectr.

Fletcher, B. H., BA <i>Syd.</i>	Lectr.	Allen, A. F., BE	Sr. Lectr.
Ingham, S. M., MA <i>Melb.</i>	Lectr.	Barna, P. S., BE <i>Bud.</i> , ME <i>Syd.</i>	Sr. Lectr.
Meaneay, N. K., MA <i>Adel.</i> , PhD <i>Duke</i>	Lectr.	Bonamy, S. E., BE <i>Syd.</i> , MSc <i>Birm.</i>	Sr. Lectr.
O'Farrell, P. J., MA <i>N.Z.</i>	Lectr.	Bryant, R. A. A., ME	Sr. Lectr.
Packer, D. R. G., MA <i>Melb.</i>	Lectr.	Carroll, A. J., BE <i>Syd.</i>	Sr. Lectr.
Yarwood, A. T., BA DipEd <i>Syd.</i>	Lectr.	Corbett, R. E., DIC	Sr. Lectr.
		Csanady, G. T., DiplIng <i>Munich</i> , PhD	

**Hospital Administration**

Hatfield, S. B., MB BS <i>Syd.</i> , MPH(HospAdmin) <i>Johns H.</i>	Prof.	Hool, J. N., BE <i>Syd.</i> , DPhil <i>Oxon.</i>	Sr. Lectr.
Pekin, A. J., BCom <i>Melb.</i> , MA(HospAdmin) <i>Iowa</i>	Lectr.	Munro, J., BE <i>Syd.</i>	Sr. Lectr.
Baird, W. H., Supervisor, External Studies		Sapsford, C. M., BSc(Eng) <i>Lond.</i> , ME	
Steele, S. K., BCom <i>Melb.</i>			
Asst. Supervisor, External Studies			
1 Teaching Fellow			

**Industrial Arts**

Haynes, L. M., BA <i>Syd.</i>	Assoc. Prof.	Tuft, R. J.	Sr. Lectr.
Lodge, K. A., BE <i>Syd.</i>	Lectr.	Weiss, K., DiplIng <i>Vienna</i> , ME	Sr. Lectr.
1 Tech. Officer		Baker, L. H.	Lectr.

**Mathematics**

Bosson, G., MSc <i>Lond.</i>	Prof., Hd. of Sch.	Bennett, G., BA <i>Syd.</i>	Lectr.
Blatt, J. M., BA <i>Cinc.</i> , PhD <i>Corn. &amp; Prin.</i> , FAPS (Appl. M.) Prof.		Bils, O. O. C. A., DiplIng <i>Berl.</i>	Lectr.
Douglas, J. B., MA BSc DipEd <i>Melb.</i>	Assoc. Prof.	Borchardt, H. A., DiplIng <i>E.T.H. Zürich</i>	Lectr.
Griffith, J. L., BA MSc DipEd <i>Syd.</i>	Sr. Lectr.	Bowditch, H. G.	Lectr.
Groden, C. M., DiplMath <i>Zür.</i>	Sr. Lectr.	Butler, G. D., BE	Lectr.
Keane, A., MSc <i>Syd.</i> , PhD	Sr. Lectr.	Byron, R. A. V., BE <i>Syd.</i>	Lectr.
Kirkpatrick, C. B., MSc <i>Syd.</i>	Sr. Lectr.	Close, J. F. C., BSc BE <i>Syd.</i>	Lectr.
Lapton, S., MSc <i>Liv.</i>	Sr. Lectr.	Cooke, N., BSc <i>Lond.</i>	Lectr.
Senior, S. A., MSc DipEd <i>Leeds</i>	Sr. Lectr.	Craddock, H. S., BE <i>Syd.</i>	Lectr.
Smith, W. E., MSc <i>Syd.</i> , BSc <i>Oxon.</i>	Sr. Lectr.	Davis, G. de V., BE <i>Syd.</i> , PhD <i>Camb.</i>	Lectr.
Bofinger, V. J., MSc DipEd <i>Syd.</i>	Lectr.	Dodds, D. A. F., BE <i>Melb.</i> , SM <i>M.I.T.</i>	Lectr.
Clancy, B. E., BSc DipEd <i>Syd.</i> , MSc	Lectr.	Dodds, E. W.	Lectr.
Cox, C. D., BSc DipEd <i>Q'ld.</i>	Lectr.	Harrison, J. Y., BE <i>Syd.</i>	Lectr.
Eggar, M. A., Staatsexamen DrNatScs DiplEd <i>Berl.</i>	Lectr.	Hind, E. C., BE	Lectr.
Elliott, A. G. L., BSc <i>W.Aust.</i>	Lectr.	James, A. K.	Lectr.
Hanson, M. A., BSc <i>Q'ld.</i> , MSc <i>Melb.</i>	Lectr.	McKenzie, R. T. B.	Lectr.
Low, A. H., MSc DipEd <i>Syd.</i>	Lectr.	McLachlan, H. McD., BE <i>Syd.</i>	Lectr.
Lyness, J. N., BA DPhil <i>Oxon.</i>	Lectr.	Muiznieks, J. O., DiplIng <i>Latvia</i> , DrIngAer <i>Rome</i>	Lectr.
McGilchrist, C. A., BSc BE <i>Q'ld.</i>	Lectr.	Roberts, A. W., BE	Lectr.
McKay, M. H., MA DipEd <i>Syd.</i>	Lectr.	Robertson, R. G., MA <i>Oxon.</i>	Lectr.
Mustard, D. A., BSc <i>Syd.</i>	Lectr.	Rosenuer, N., ME <i>St.Petersburg</i> , DrIng <i>Latvia</i>	Lectr.
Pretorius, W. J., DIC, MSc <i>Rhodes</i>	Lectr.	Selinger, H., DiplIng <i>Berl.</i>	Lectr.
Prokhovnik, S. J., BA BSc <i>Melb.</i>	Lectr.	Upfold, R. W., BE	Lectr.
Reichel, A., MSc DipEd <i>Syd.</i>	Lectr.	Van der Werf, P.	Lectr.
Sandiford, J. St. A., MSc <i>Syd.</i>	Lectr.	Walters, R. C. P.	Lectr.
Wilkins, C. A., MSc <i>N.Z.</i>	Lectr.	Wood, N. F., MA <i>Camb.</i>	Lectr.
1 Tutor		Wulff, H. E., DiplIng <i>Cologne</i>	Lectr.

4 Teaching Fellows, 6 Tech. Officers

**Medicine**

Blacket, R. B., MD BS <i>Syd.</i> , FRACP	Prof.
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**Metallurgy**

Myers, R. H., MSc PhD <i>Melb.</i> , FIM, FRACI	Prof., Hd. of Sch.
Muir, H., BMctE <i>Melb.</i> , ScD <i>M.I.T.</i>	

(Phys. M.) Prof.

Bowles, J. S., MSc <i>Melb.</i> (Phys. M.)	Res. Prof.
Anderson, A. J., MSc	Sr. Lectr.
Hatherly, M., MSc	Sr. Lectr.
Jenkins, A. E., BMctE MEngSc PhD <i>Melb.</i>	

Sr. Lectr.

Krysko, W. W., DrIng <i>Berl.</i>	Sr. Lectr.
Armstrong, B. W.	Lectr.
Barnes, T. W.	Lectr.
Harris, B., BSc <i>Syd.</i> , MSc	Lectr.
Hempel, F. H., BSc <i>Melb.</i>	Lectr.

**Mechanical Engineering**

Willis, A. H., BSc(Eng) PhD <i>Lond.</i>	Prof., Hd. of Sch.
...	Prof.

Woods, L. C., BE <i>N.Z.</i> , MA DPhil <i>Oxon.</i> , DSc <i>N.Z. &amp; Oxon.</i>	Nuffield Res. Prof.
Hill, N. A., BE BSc <i>Syd.</i> , SM <i>M.I.T.</i>	Assoc. Prof.
Hirschhorn, J., DiplIng DrTechSc <i>Vienna</i>	
Wood, J. F. D., BSc BE <i>Syd.</i>	Assoc. Prof.

Howarth, G. B., MC, MSc *Leeds*, FRIC Lectr.  
 Keys, L. H. Lectr.  
 McDougall, P. G., BSc Lectr.  
 Moran, V. J., BSc Lectr.  
 Wallwork, G. R., BSc PhD Lectr.  
 Warner, N. A., BSc PhD Lectr.  
 1 Teaching Fellow, 6 Tech. Officers

### Mining Engineering and Applied Geology

Phillips, D. W., BSc *Wales*, PhD *Camb.*,  
 DipMetMin, FGS Prof., Hd. of Sch.  
 Morgan, J. P., BE *Adel.* Prof.  
 Burdon, R. G., ME Sr. Lectr.  
 Kirov, N. G., MSc *Leeds* Sr. Lectr.  
 Koch, L. E., DrPhilHabil *Cologne* Sr. Lectr.  
 Lawrence, L. J., DIC, BSc DipCom *Syd.*,  
 PhD Sr. Lectr.  
 Basden, K. S., BSc Lectr.  
 Bell, A. D. M., BSc *Lond.* Lectr.  
 Cameron, J. C., MA BSc *Edin.* Lectr.  
 Carter, A. N., MSc *Adel.*, PhD *Melb.* Lectr.  
 Cooley, D. R., BE Lectr.  
 Golding, H. G., BSc *Lond.*, MSc Lectr.  
 Hawkins, L. V., MSc *Syd.*, FGS Lectr.  
 Loughnan, F. C., BSc *Syd.*, PhD Lectr.  
 5 Teaching Fellows, 3 Tech. Officers

### Pathology

Wilhelm, D. L., MD BS *Adel.*, PhD *Lond.* Prof.

### Philosophy

Thornton, J. B., BA BSc *Syd.* Prof.  
 Hamblin, C. L., BSc MA *Melb.*,  
 PhD *Lond.* Sr. Lectr.  
 Bradley, R. D., MA *N.Z.*, PhD *A.N.U.* Lectr.  
 Roxon, Mrs. Barbara A., BA *Syd.* Lectr.  
 Walters, R. S., MA *Syd.* Lectr.

### Physiology

Korner, P. I., MD BS MSc *Syd.* Prof.

### Political Science

Atkins, Ruth, BA BEc DipEd *Syd.* Sr. Lectr.

Marchant, P. D., BA *Syd.* Lectr.  
 Palfreeman, A. C., LèsScPol *Geneva* Lectr.

### Sociology

Brown, M. S., MA DipEd *Syd.*, PhD *Lond.* Prof.  
 Congalton, A. A., MA DipEd *N.Z.* Sr. Lectr.  
 Fallding, H. J., MA BSc DipEd *Syd.*,  
 PhD *A.N.U.* Sr. Lectr.

### Surgery

Rundle, F. F., BSc MD *Syd.*, FRCS, FRACS, FACS Prof.

### Textile Technology

Chaikin, M., BSc PhD *Leeds*, DipEng  
*L.I.T. Shanghai*, FTT Prof.  
 Johnson, A., MSc *Leeds*, FTT Hon. Assoc. Prof.  
 Datyner, A., BSc PhD *Lond.*, FTT Sr. Lectr.  
 Nicholls, C. H., BSc *Adel.*, PhD *Leeds* Sr. Lectr.  
 Wood, F., BSc *Lond.* Sr. Lectr.  
 Dircks, A. D., BE *Syd.*, DipTextInd *Leeds* Lectr.  
 Kenny, P., BSc Lectr.  
 Samson, A., DipEng *L.I.T. Shanghai*, BE Lectr.  
 3 Tech. Officers

### Traffic Engineering

Blunden, W. R., BSc BE *Syd.* Prof.  
 Munro, R. D., BSc *W.Aust.*, BA *Melb.* Sr. Lectr.  
 Tindall, J. I., BE *Q'ld.* Lectr.  
 Turner, H. J. A., BSc *Lond.* Lectr.

### Wool Technology

McMahon, P. R., MAgrSc *N.Z.*, PhD *Leeds* Prof.  
 Roberts, E. M., MAgrSc *N.Z.*, PhD Sr. Lectr.  
 Goldstone, C. L., BAgrSc *N.Z.* Lectr.  
 McFarlane, J. D., BScAgr *Syd.* Lectr.  
 McManus, W. R., BScAgr *Syd.* Lectr.  
 Whitely, K. J., PhD *Leeds*, BSc Lectr.  
 1 Teaching Fellow, 4 Tech. Officers, 1 Demr.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : A. J. T. Ford, MC, BEc *Syd.*  
 Dep. Bursar & Accountant : E. H. Davis. Officer-in-Charge, Bldg. Planning & Devel. : C. Parkes, Hon. DSc, FRIBA, FRAIA. Master of Basser Coll. : M. G. Mackay, BA *Adel.*, BD *Melb.Drv. Coll.*, PhD *Edin.* Asst. Bursar (Bldgs. and Grounds) : L. V. O'Neill, BE *Syd.* Asst. Regis-

trar (Exams.) : J. M. Gannon. Asst. Registrar & Sec. to Council : J. S. Fraser. Asst. Bursar (Personnel) : T. J. Daly, BEc *Syd.* Educnl. Res. Officers : G. A. Gray, DFC, BA BEc *Syd.* ; L. N. Short, MSc DipEd *Syd.*, DPhil *Oxon.* Public Relations Officer : G. Caiger, MA *Oxon.* Supervisor of Amenities : Major R. K. Wilthrew.

## ASSOCIATED COLLEGE

### NEWCASTLE UNIVERSITY COLLEGE

Established 1951

Postal Address Tighe's Hill, Newcastle, 2N, New South Wales, Australia

Cables and Telegrams : Newuni

Telephone : Newcastle MA 0466

Warden—J. J. Auchmuty, MA PhD *Dub.*, FRHistS.

Registrar—J. F. Foley, BEc *Syd.*

Hd. of Division of Applied Science—Assoc. Prof. E. O. Hall (Metall.).

Hd. of Division of Arts—Assoc. Prof. B. Newton-John (German).

Hd. of Division of Commerce—Assoc. Prof. C. C. Renwick (Econ.).

Hd. of Division of Engineering—Assoc. Prof. E. M. Goodger (Mech. Engin.).

Hd. of Division of Science—Assoc. Prof. J. A. Allen (Chem.).

TEACHING STAFF. ACCOUNTANCY : B. Colditz, J. Dixon, BEc *Adel.*, W. J. Sheehan, BEc *Syd.*, R. A. Woodman, LLB *Syd.*, Lectrs. APPL. PHYS. : S. C. Baker, MSc *Syd.*, PhD, Sr. Lectr.; K. J. Ausburn, BSc *Syd.*, DIC, MSc *Lond.*, J. E. Cleary, BSc, G. A. Harle, MSc *Syd.*, J. A. Ramsey, MSc *Melb.*, Lectrs. ARCHIT. : E. C. Parker, Sr. Lectr.; H. G. Appleby, Lectr. CHEM. ENGIN./CHEM. TECHNOL. : J. S. Ratcliffe, MSc PhD, Sr. Lectr.; W. J. Howarth, BSc, W. G. Kirchner, MSc, J. Roberts, BSc, Lectrs. CHEM. : J. A. Allen, MSc *Q'ld.*, PhD *Brist.*, FRACI, Assoc. Prof.; G. C. Curthoys, BSc *Syd.*, MSc, H. Duewell, MSc *Syd.*, PhD *Camb.*, W. R. Walker, MSc DipEd *Syd.*, F. L. Ward, MSc *Q'ld.*, Sr. Lectrs.; K. A. Allen, MSc *N.Z.*, E. B. Jacobs, BSc *Syd.*, W. F. Pickering, MSc PhD, E. P. A. Sullivan, MSc PhD *Syd.*, H. R. Tietze, MSc *Lond.*, Lectrs.; 1 Teaching Fellow. CIVIL ENGIN. : W. S. Butcher, BE *Syd.*, G. J. Haggarty, BE *Syd.*, SM *M.I.T.*, Sr. Lectrs.; A. Herzog, BChemE *Bud.*, Lectr. CLASSICS : R. G. Tanner, MA *Melb. & Camb.*, Sr. Lectr.; G. G. Betts, BA *Syd. & Camb.*, B. W. Roos, DrSLittClass *Utrecht*, Lectrs. ECON. : C. C. Renwick, MEc *Syd.*, Assoc. Prof.; W. P. Hogan, MA *N.Z.*, PhD *A.N.U.*, P. W. Sherwood, BCom *Lond.*, Sr. Lectrs.; B. L. J. Gordon, MEc *Syd.*, J. J. Grady, BA, B. L. Johns, MA *Camb.*, Lectrs.; 1 Sr. Tutor. ELECTR. ENGIN. : H. G. Middlehurst, Sr. Lectr.; J. H. Caldwell, BSc BE *Syd.*, T. Glucharoff, DiplIng *Munich*, ME, R. C. Yates, BE *Adel.*, Lectrs. ENGL. : D. C. Muecke, BA *Adel.*, MA *Oxon.*, Sr. Lectr.; J. B. Beston, BA DipEd *Syd.*, MA *Harv.*, D. B. O'D. Biggins, BA *Lond.*, MA *Ston.*, R. K. Iverach, BA *Syd.*, T. H. Jones, MA *Wales*, Lectrs. FRENCH : K. H. Hartley, MA *Syd.*, DUParis, Sr. Lectr.; I. P. Barko, LicPhL *Brussels*, DUStras., Lectr.; J. F. Audoin des Cartiers, LèsL DiplÉcScsPol *Paris*, Lecteur. GEOG. : K. W. Robinson, MA *N.Z.*, A. D. Tweedie, MA *N.Z.*, Sr. Lectrs.; W. F.

Geyl, BSc *Lond.*, DrsPhysGeog *Utrecht*, Lectr. GEOL. : Beryl Nashar, BSc DipEd *Syd.*, PhD *Tas.*, Sr. Lectr.; B. A. Engel, MSc *N.E.*, J. H. Rattigan, MSc *Adel.*, A. S. Ritchie, Lectrs. GERMAN : B. Newton-John, MA *Camb.*, Assoc. Prof.; ..... Marlene J. Norst, BA DipEd *Syd.*, J. D. Stowell, BA *Melb.*, Lectrs. HIST. : J. J. Auchmuty, MA PhD *Dub.*, FRHistS, Prof.; G. A. Cranfield, BA PhD *Camb.*, Sr. Lectr.; A. H. Anderson, MA PhD *Edin.*, J. P. S. Bach, MA *Syd.*, L. E. Fredman, MA LLB *Melb.*, AM *Stan.*, J. M. Tregenza, MA *Adel.*, PhD *A.N.U.*, Lectrs. MATHS. : I. L. Rose, BE *Syd.*, Sr. Lectr.; W. Brisley, BSc *Syd.*, DipEd *N.E.*, J. R. Giles, BA *Syd.*, J. A. Lambert, BSc *Syd.*, R. F. Matlak, PhMgr *Cracow*, BA *Syd.*, M. Temple, MA *Dub.*, Lectrs. MECH. ENGIN. : E. M. Goodger, MSc(Eng) PhD *Lond.*, Assoc. Prof.; A. K. Johnston, BE *Syd.*, MS *Iowa*, PhD, Sr. Lectr.; E. Betz, ME, K. R. Bridger, L. W. B. Browne, BE *Syd.*, M. J. Hallinan, Lectrs. METALL. : E. O. Hall, MSc *N.Z.*, PhD *Camb.*, FIP, Assoc. Prof.; C. G. H. Cooke, MSc, Sr. Lectr.; G. B. Johnston, BSc, J. E. McLennan, N. A. Molloy, BE *Q'ld.*, W. A. Oates, BMet *Sheff.*, Lectrs. PHILOS. : A. M. Ritchie, MA *Syd.*, PhD *Lond.*, Sr. Lectrs.; A. J. Anderson, BA *Syd.*, W. V. Doniela, MA *Syd.*, DrPhil *Freib.*, Lectrs. PSYCHOL. : D. R. Martin, BA DipEd *Syd.*, J. W. Staines, BA BEc *Syd.*, BEd *Melb.*, PhD *Lond.*, Sr. Lectrs.; B. Fenelon, BA *Q'ld.*, A. C. Hall, BA *R'dg.*, J. A. C. Price, BA *Q'ld.*, Lectrs. 7 Tech. Officers.

GENERAL INFORMATION. Under the terms of its act of incorporation the univ. has power to establish colls. within the state of N.S.W. and under this power establd. Newcastle Univ. Coll. in Dec. 1951. The govt. of the coll. is vested in the council of the univ. A bd. of studies consisting of the sr. members of the academic staff of the college supervises the teaching and examining of courses at Newcastle and is responsible to the professorial bd. and the council of the univ.

The coll. provides a wide range of the univ.'s degree courses in various scientific and engin. fields, and also offers courses in comm., archit. and arts. Under an arrangement with the Univ. of New England courses in arts were first offered at Newcastle in 1954 leading to the BA degree of the Univ. of New England. In 1958 amending legislation gave the Univ. of New South Wales power to confer degrees in arts and from 1959 students at Newcastle work for the BA degree of this univ.

Enrolments at Newcastle, 1959 : 977 (incl. 252 arts students and 35 students studying for res. degrees).

## GENERAL INFORMATION

The univ. was incorporated by act of the N.S.W. parliament on July 1, 1949—initially under the name of 'The N.S.W. Univ. of Tech-

nology'—to meet the increasing demand in Australia for grads. in scientific and technol. fields. In 1958 these original objectives were

extended by the Univ. of N.S.W. Act, 1958, which gave the univ. power to conduct courses and res. and award degrees in the fields of med. and humane studies and in such other fields as the council may from time to time determine. Courses for the BA degree were first offered in 1960, and the univ. plans to provide the 1st yr. of a med. course in 1961.

The univ. from its inception has provided courses in the traditional fields of scientific educn. and has built up schools in engin. and in the physical and mathl. scis. On this foundation the univ. has in recent yrs. extended its activities into such specialized technol. fields as wool technol., textile technol. and highway and traffic engin. Most of the univ.'s degree courses are available on both a full-time and a pt.-time basis. The first coll. of the univ. was establd. at Newcastle in 1951 (see p. 64). Instrucn. in the early stages of some of the pt.-time degree courses is also given in the country centres of Wollongong, Broken Hill and Orange, where the univ. uses the bldgs. of the dept. of technical educn. to accomm. its own academic staff and equipment.

**CONSTITUTION.** The univ. is governed by a council of 36 members representing the state parliament, industrial, commercial and agricultural bodies, employee organizations, tech. educn., professl. orgns., the Univ. of Sydney and the univ.'s own academic staff and its undergrads. and grads. The professorial bd. is the main academic body of the univ. There are 7 facs. whose membership is made up of the sr. members of the constituent schs.

**INCOME (1959).** Operating, £A2,392,597 (state parliament grants, 63.8 per cent.; commonwealth parliament grants, 22.6 per cent.; fees & contributions from industry and other sources, 13.6 per cent.). Also in 1959 the state parliament provided £A767,671 and the commonwealth parliament £A374,835 to meet capital expenditure on bldgs. and equipment. In addition contributions from industry, comm. and other sources towards sp. res. and other purposes amounted to £A436,447.

**FACULTIES AND DEANS (1960).** *Appl. sci.*: Prof. R. H. Myers (metall.); *archit.*: Prof. F. E. Townsend; *arts*: Prof. M. S. Brown (sociol.); *comm.*: .....; *engin.*: Prof. A. H. Willis (mech. engin.); *med.*: Prof. F. F. Rundle (surg.); *sci.*: Prof. J. F. Clark (appl. psychol.).

**UNIVERSITY PRECINCT.** The main site of the univ. is in the Sydney suburb of Kensington where the original area of 70 acres has recently been enlarged to 95 acres with the acquisition of an adjoining golf course. Development at Kensington has reached the stage where all of the univ.'s schs. except electr., mech. and civil engin. are located on this main site. The engin. schs. are at present located in the grounds of the Sydney Tech. Coll. but plans are well advanced for their accomm. at Kensington. The 1st bldg. of the med. sch. is being erected on the golf course area.

**LIBRARY.** Central libr. at Kensington and jt. collections in univ. coll. and tech. coll. libr. used by staff and students. Univ. holdings in all collections: 110,123 vols.

**LABORATORIES.** In addition to teaching labs. in the sci. and engin. schs. there are a no. of specialized labs. including a Radiochemical Res. Lab., the UTECOM Computing Lab. and, at Manly Vale, the Water Res. Lab.

**ADMISSION.** See Appendix II.

**ADMISSION OF NON-MEMBERS.** With the approval of hd. of sch. concerned, unmatriculated students may attend classes and take exams., but such study cannot be counted as meeting the requirements for a degree.

**PUBLIC EXAMINATIONS.** See Appendix II.

**FIRST DEGREES.** 3 yrs.—BA pass (4th yr. for hon.), BSc pass (4th yr. for hon.) (gen. sci.), BCom pass (4th yr. for hon.) (accty., appl. psychol., indust. relns., econ., stats.); 4 yrs.—BBuild, BSc pass, hon. (appl. chem., appl. phys., fuel technol., indust. arts, metall., wool technol., textile technol.), BSc pass (5th yr. for hon.) (chem., engin., food technol., plastics and rubber technol.), BE pass, hon. (civil, electr., indust., mech., mining engin., appl. geol.), BSurv, BCom pass, hon. (wool comm.); 5 yrs. (pt.-time)—BSc pass (6th yr. for hon.) (appl. psychol.); 6 yrs.—BArch pass, hon.; 7 yrs. (pt.-time)—BSc pass, hon. (opt. sci.); BE pass (naval archit.). A no. of courses leading to the degrees of BSc, BE and BCom may be taken by pt.-time attendance. In general these courses extend over 6 yrs. (pass) and 7 yrs. (hons.). Candidates for pass degrees. Many of these pt.-time BE and BSc courses will be gradually replaced from 1961 by 6-yr. pt.-time courses for the new degree of BSc(Tech), pass only. Courses for this degree are being introduced in aeron., chem., civil, electr., indust., mech. and radio engin., food technol., indust. chem., metall. and naval archit.

Full-time and pt.-time courses leading to degrees in arts, comm., engin. and sci. are conducted at Newcastle Univ. Coll. (see p. 64).

In all undergrad. courses a certain amount of time is devoted to the study of subjs. of a gen. educnl. character outside the student's particular field. Students in facs. other than arts take courses in the humanities and soc. scis., while arts students take 2 courses in scientific subjs. A 2nd feature is the inclusion of periods of practical trg. in industry as an essential part of the scientific and technological courses to supplement the lab. and lecture room work.

**HIGHER DEGREES.** *Research degrees*: MSc, ME, MArch, MCom, at least 2 yrs. from bachelor's degree of this or other approved univs. Candidates for these degrees may register either as full-time or pt.-time students or as students working externally to the univ. Under certain conditions grads. may submit theses for the award of MSc or ME without supervision; PhD (avail-

able in facs. of appl. sci., archit., comm., engin. & sci.), at least 3 yrs. from bachelor's degree with hon. or equivalent from this or other approved univs. DSc (also honorary) in facs. of appl. sci., engin. or sci., 5 yrs. or more from 1st degree. *Degrees with formal instructn.*: MTech (available in facs. of engin. & technol.), 1 yr. full-time, 2 yrs. pt.-time (chem. engin., concrete structures, highway engin., hydraulics & hydrol., nuclear engin., structural analysis, traffic engin.); MHA, 3 yrs. (1 yr. at univ., 2 yrs. admin. experience in hosps.).

**DIPLOMAS.** *Postgraduate.* Food technol., highway engin. & wool technol., open to grads. in appropriate fields, 1 yr. full-time, 2 yrs. pt.-time. Librarianship, 2 yrs. pt.-time. Educn. (DipEd), at Newcastle Univ. Coll.

*Undergraduate.* The univ. since 1951 has provided the instructn. in dipl. courses in fields of comm., engin., sci. and technol. leading to the N.S.W. dept. of tech. educn.'s dipl. award (A.S.T.C.). Commencing in 1961 these courses and the dipl. will gradually be withdrawn and replaced by 6-yr. pt.-time degree courses leading to the univ.'s new pass degree BSc('Tech).

Dipl. in sociol. (3 yrs. pt.-time).

At the Broken Hill division of the univ., dipl. courses leading to associateship of the univ. are offered in mech. engin., metall., minerals technol. and mining engin. (5 yrs. pt.-time).

**SPECIAL POSTGRADUATE COURSES.** In addition to courses leading to a higher degree, the univ. presents series of lectures designed to keep grads. in touch with latest devels. in their respective fields. Less intensive courses on specific technol. problems are given to personnel in industry.

**FEES.** Payable by all students: students' union and sports assocn. membership, £A3 p.a.; library fee, £A5 p.a. Undergrad.: matric., £A3; graduation, £A3; full-time course fee (except comm. and arts), £A120 p.a.; pt.-time course fee, £A60 p.a.; comm. full-time and pt.-time course fees, £A60 p.a.; arts course fees, (pass) £A27 p.a. per subj., (hons.) £A33 p.a. per subj. DSc: £A31; 10s. PhD: registration, £A2; graduation, £A21; supervision, £A30 p.a. MSc, ME, MArch, MCom: registration, £A2; graduation, £A15; internal students, full-time, £A30 p.a., pt.-time £A15 p.a.; external students, £A10 p.a. MHA: registration, £A2; graduation, £A3; course fees, 1st yr., £A120, 2nd yr., £A30, 3rd yr., £A30. MTech and grad. dipl.: registration, £A2; graduation, £A3; course fee, term payment of £A2 multiplied by no. of weekly hrs. of instructn. involved.

**ACADEMIC YEAR.** Mar. to Nov., 3 terms of 10 wks. each.

**STUDY LEAVE.** Academic and sr. admin. staff, one yr. after 6 yrs.' service, or in the case of profs., 6 mos. after 3 yrs.' service. Provision is made for special cases.

**PRINCIPAL 'OPEN' ENTRANCE SCHOLARSHIPS.** (For candidates reading for a first degree.) Commonwealth scholps. (see p. 12): awarded by cwth. govt., fees & living allowance, all facs. Jt. Coal Bd. & Aust. Coal Assocn. (Res.), Ltd.: £A300-£A500 p.a. plus fees for 4 yrs. in electr., mech. or mining engin., or fuel technol. The John Heine: £A100-£A150 p.a. for final 2 yrs. in mech., electr. or chem. engin., appl. chem. or metall. Wool Industry scholps. in wool technol.: £A500 p.a. for 4 yrs. Wool Res. Trust Fund (6): £A400 p.a. for 4 yrs. in text. technol. or wool technol. Text. industry scholps. in text. technol.: £A500 p.a. for 4 yrs. Food technol. scholps.: £A400 p.a. for 3 or 4 yrs. Colonial Sugar Refining Co. Ltd. scholp. in comm., £A600 p.a. for full-time study.

**POSTGRADUATE FELLOWSHIPS, ETC.** I.C.I.A.N.Z. res. fellowship for British Commonwealth grads., £A1100 p.a. for 2 yrs. for study in fields related to interests of I.C.I.A.N.Z.; Consolidated Zinc Metall. scholp. for graduates in metall., £A600 p.a. for 1-3 yrs. for res. in the industry with which the co. is associated; Australian Atomic Energy Commission res. studentships, £A700 p.a. for 1-3 yrs.; Australian Inst. of Nuclear Sci. and Engin. res. studentships, £A800-£A1500 p.a. for 1-3 yrs.; General Motors-Holden's res. fellowships, £A800-£A1200 p.a. for 1-3 yrs.; atmospheric pollution res. fellowships, £A1000-£A1300 p.a. for 1-3 yrs.; Commonwealth postgrad. awards (see p. 12), £A700-£A900 p.a. for 1-4 yrs.

**RESIDENCE.** Accom. is provided at Kensington in Basser Coll. for 200 men students in residence. Tutorial assistance available for resident students. (Address: Box 24, P.O. Kensington.)

**UNIVERSITY REGIMENT.** Establd. in 1951, the univ. regiment is organized as an infantry bn. with an establt. of 35 officers and 805 other ranks. It consists of Bn. H.Q. (2 platoons), support coy. (4 platoons) and 4 rifle coys. C.O.: Lt.-Col. K. V. Kesteven, MC.

**PUBLICATIONS.** *Calendar with Annual Report* (10s.); *Newcastle Univ. Coll. Handbook, Technology, Vice-Chancellor's Letter to Graduates.* Student Publications: *Tharunka* (fortnightly during term), *Engineering Yearbook*, *Science Yearbook*, *Orientation Handbook*.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Broken Hill Pty. Co. Ltd., £A90,000 for bldgs. for Wollongong Univ. Coll.; John Lysaght (Aust.) Pty. Ltd., £A24,000 for bldgs. for Wollongong Univ. Coll.; W. K. Kellogg Foundation, £A10,600 for Sch. of

Hosp. Admin.; Dr. Adolph Basser, £A10,000 for Basser Coll.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. approaching completion*: sci. lecture theatre; 3-storey arts/sci. bldg.



**NEW DEPARTMENTS AND CHAIRS.** Chairs of Engl., hist., philos., econ. (2nd chair), civil engin. (2nd chair), electr. engin. (2nd chair), mech. engin. (2nd chair), mining engin. (2nd chair), chem. technol., phys. metall., phys. metall. (res.). Sch. of chem. technol.

**RETIREMENTS.** R. Basden (warden, Newcastle Univ. Coll.); Dr. R. Guertler (electr. engin.).

**RESIGNATIONS.** L. T. R. Bond (asst. bursar) apptd. to position with N.S.W. Pub. Service Bd. C. R. Brown (appl. phys.), to further studies. Dr. L. G. Ericson (appl. phys.), apptd. lectr., Adel.; D. P. Kirkland (archit.), apptd. asst. prof., Manit.; Dr. R. L. Martin (chem.), apptd. to res. position in industry (I.C.I.A.N.Z. Ltd.); J. D. Pitchford (econ.), apptd. sr. lectr., Melb.; D. C. Stove (philos.), apptd. lectr., Syd. *Newcastle Univ. Coll.*: J. J. Duhigg (classics), apptd. sr. lectr. (Latin), Syd.; R. W. Peters (econ.), apptd. lectr., W. Aust.; Dr. T. R. Reese (hist.), apptd. sr. lectr., Syd.; R. K. Sinclair (classics), apptd. lectr. (anc. hist.), Syd.; Dr. K. H. Star (appl. psychol.), apptd. lectr., W. Aust.

**HONORARY DEGREES.** *DSc*—H.E. Sir William Slim, governor-general of Australia; Sir Earle Page, chancellor, N.E.

### Statistics

#### STUDENT NUMBERS, 1960

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	2141	5002
Women . .	176	162

Total . 2317 5164

Distribution by Faculties. *Appl. sci.*, 1335; *archit.*, 564; *arts*, 417; *comm.*, 1143; *engin.*, 2742; *sci.*, 1280. Total 7481.

*Included in the figures above are :—*

Postgraduate students, 484 (incl. 436 higher degree students).

New admissions, 2073.

**DEGREES AWARDED (1959).** *Archit.*: BArch, 1; BACh (hons.), 2. *Comm.*: BCom, 8. *Engin.*: BE, 59; BE (hons.), 20; ME, 7; PhD, 1. *Sci.*: BSc, 46; BSc (hons.), 14; MSc, 8; PhD, 4. *Technol.*: BSc, 28; BSc (hons.), 9; BE, 8; BE (hons.), 3; MSc, 5; PhD, 5.

# UNIVERSITY OF QUEENSLAND\*

Founded 1909

Postal Address : St. Lucia, S.W.6, Brisbane, Queensland, Australia

Cables and Telegrams : University, Brisbane

Telephone : Brisbane 72021

CHANCELLOR—Sir A. E. AXON, KBE, ME, MIEAust

DEPUTY-CHANCELLOR—H. G. WATKIN, BA DipEd

VICE-CHANCELLOR—Professor F. J. SCHONELL, MA *Birm.*, PhD DLit *Lond.*

REGISTRAR—C. J. CONNELL, BCom, FASA, FCAA

## TEACHING STAFF

[†=Part-Time]

### Agriculture

Teakle, L. J. H., BScAgr *W.Aust.*, MSc  
PhD *Calif.* Prof.  
Skerman, P. J., BA MSc DAgSc Sr. Lectr.  
McCarthy, W. O., MAgSc *N.Z.*,  
PhD *Iowa* Sr. Lectr.  
Waring, S. A., BScAgr *Syd.* (Agron.) Lectr.  
Fox, W. E., BSc Lectr.  
Hughes, J. D., BSc Lectr.  
1 Lectr.†, 3 Res. Assts., 3 Res. Fellows

### Animal Husbandry

Ewer, T. K., PhD *Camb.*, BVSc *Syd.* Prof.  
Campbell, E. A., BSc MA PhD Sr. Lectr.  
Pryor, W. J., BVSc Sr. Lectr.  
McBride, G., PhD *Edin.*, BAgSc Lectr.  
Springhall, J. A., BVSc Lectr.  
1 Res. Fellow, 5 Lectrs.†, 3 Demrs.†

### Architecture

Cummings, R. P., BArch, FRIBA, FRAIA Prof.  
Lucas, F. B., BArch, FRIBA, FRAIA Reader  
Greig, W. A., DipArch *Aberd.* Lectr.  
Juppenlatz, M. Lectr.  
Marquis-Kyle, S. J., DipArch Lectr.  
9 Lectrs.†, 11 Demrs.†

### Biochemistry

Hines, H. J. G., BSc *Lond.* Assoc. Prof.  
MacDonald, K., MSc *Syd.* Sr. Lectr.  
Dunstone, J. R., MSc DipEd Lectr.  
Jackson, R. B., MSc *Melb.* Lectr.  
Masters, C. J., MSc *N.Z.* Lectr.  
4 Demrs.†, 4 Teaching Fellows

### Botany

Herbert, D. A., DSc *Melb.* Prof.  
Langdon, R. F. N., MAgSc PhD Reader

Wilson, G. L., DPhil *Oxon.*, BAgSc Sr. Lectr.  
Aberdeen, J. E. C., BAgSc PhD Sr. Lectr.  
Cribb, A. B., MSc PhD Lectr.  
Clifford, H. T., MSc *Melb.*, PhD *Durh.* Lectr.  
Balfour, Ena, MSc PhD Lectr.  
Barlow, B. A., BSc PhD *Syd.* Lectr.  
7 Demrs.

### Chemistry

Jones, T. G. H., DSc *Syd.*, FRACI Prof.  
Edmiston, E. S., BSc BScApp  
(Indust. C.) Assoc. Prof.  
Lauder, I., DSc PhD *Manc.* Assoc. Prof.  
Lahey, F. N., DSc Res. Prof.  
Plowman, R. A., PhD *Lond.* (Inorg. C.) Reader  
O'Connor, E. A., MSc *Melb.* Reader  
Jenkins, G. H., MScApp  
(Sugar Technol.) Sr. Lectr.  
Sutherland, M. D., MSc *N.Z.*, DSc Sr. Lectr.  
Wood, H. L., MSc *Adel.*, PhD  
(Agric.) Sr. Lectr.  
Grigg, E. C. M., MSc Lectr.  
Wilson, I. R., BSc PhD Lectr.  
Alexander, D. M., MSc PhD Lectr.  
Hall, J. R., MSc PhD Lectr.  
Wells, P. R., BSc PhD *Lond.* Lectr.  
White, E. T., BScApp Lectr.  
6 Demrs., 11 Teaching Fellows

### Classics

Cooper, C. G., MA *St.And.* Prof.  
Pryor, A. D., MA *Camb.* Sr. Lectr.  
Kanowski, M. G., BA DipEd Lectr.  
Ashworth, W. D., MA Lectr.  
Barrett, D. S., MA Lectr.  
McKay, R. J., MA Lectr.  
1 Lectr.†, 2 Demrs.†

**Dentistry**

Lumb, S. F., DDSc LDS <i>Melb.</i>	Prof.
Pearn, J. O., MDSc	Reader
Sagar, J. A., DDS <i>Tor.</i> , BDS	Reader
Ramsay, E. D., BSc MDSc	Reader
Kruger, B. J., MDSc DDS <i>Northwestern</i> , DDSc	Reader
McDougall, W. A., MDSc	Sr. Lectr.
Martin, K. H., MDSc	Sr. Lectr.
Grimes, W. D., MDSc	Lectr.
Junner, B. A., MDSc	Lectr.
Roper, M. G., MDSc	Lectr.
Winzar, C. F., MDSc	Lectr.
8 Lectrs.†, 11 Temp. Lectrs., 7 Demrs.†	

**Economics**

Gifford, J. K., MA <i>Glas.</i>	Prof.
Lane, W. R., MCom	Sr. Lectr.
Holmes, A. S., MA	Sr. Lectr.
Gynther, R. S., AAUQ, FASA, FCAA (Accty.)	Sr. Lectr.
Reitsma, A. J., DEcon <i>Rotterdam</i>	Sr. Lectr.
Palmer, G. R., BSc <i>Melb.</i> , BEc <i>Syd.</i>	Sr. Lectr.
Stalley, D. J., MEcon <i>Adel.</i>	Lectr.
Beck, G. W., BCom	Lectr.
Price, G., BCom	Lectr.
Smyth, D. J., BEcon	Lectr.
14 Lectrs.†, 1 Jr. Lectr.	

**Education**

Bassett, G. W., PhD <i>Lond.</i> , MA DipEd <i>Syd.</i>	Prof.
Henderson, N. K., BA MEd <i>Melb.</i> , PhD <i>Lond.</i>	Reader
Meddleton, I. G., BCom BEd PhD	Sr. Lectr.
Lang, R. C., BSc BEd BA <i>W.Aust.</i>	Sr. Lectr.
McLeod, J., BSc <i>Manc.</i> , EdB <i>St.And.</i>	Sr. Lectr.
Bettison, D. G., MA <i>S.A.</i> , PhD <i>Rhodes</i> (Soc. Stud.)	Sr. Lectr.
Poulter, M. W., MA BCom DipEd	Sr. Lectr.
Drinkwater, D. J., MA	Lectr.
Cochrane, R. G., BA BEd	Lectr.
Smith, Hazel M., DipCom (Soc. Stud.)	Lectr.
Bowker, E., MA DipEd <i>Liv.</i>	Lectr.
Evans, G. T., BSc BEd	Lectr.
Halliwel, L. M., BA DipSocStud DipEd	Lectr.
19 Lectrs.†, 4 Demrs., 1 Res. Asst., 3 Res. Fellows	

**Engineering, Civil**

Lavery, J. H., BSc <i>Oxon.</i> , ME	Prof.
McKay, G. R., BEng PhD <i>Liv.</i>	Reader
Apelt, C. J., DPhil <i>Oxon.</i> , BE	Sr. Lectr.
Birkbeck, G. H. M., DIC, BE	Sr. Lectr.
O'Connor, C., BE	Sr. Lectr.
Stoney, A. J. McC., BEE <i>Melb.</i>	Sr. Lectr.
Mapp, W. A., BE	Lectr.
Meek, J. L., BE BSc	Lectr.
Gourlay, M. R., BSc BE <i>Syd.</i>	Lectr.
14 Lectrs.†, 3 Demrs.†	

**Engineering, Electrical**

Prentice, S. A., MEE BSc <i>Melb.</i>	Prof.
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Hinckley, R. T., ME BSc	Reader
Parnell, T. M., BSc BE PhD	Sr. Lectr.
Jordan, T. A., BSc <i>Lond.</i>	Lectr.
Magee, B. J., BE	Lectr.
7 Lectrs.†, 6 Demrs., 4 Demrs.†	

**Engineering, Mechanical**

Shaw, M., MEng <i>Sheff.</i> , MMechE <i>Melb.</i>	Prof.
Krok, T. U., BE	Sr. Lectr.
Leahy, T. F., BE	Sr. Lectr.
Sheridan, N. R., BE MSc <i>Birm.</i>	Sr. Lectr.
Bullock, K. J., BE PhD	Lectr.
Clark, D. J., BE	Lectr.
Foster, G. A., BA <i>Camb.</i>	Lectr.
Gilmour, C., BSc BE	Lectr.
Hooker, R. J., BE	Lectr.
Juler, P. A., BMEchE	Lectr.
5 Lectrs.†, 4 Demrs.	

**Engineering, Mining and Metallurgical**

White, F. T. M., BMetE <i>Melb.</i> , MMinE, FIM, FGS	Prof.
Gregory, C. E., BA BE	Sr. Lectr.
Waring, J., BSc	Sr. Lectr.
Hogan, L. McN., BSc(Metall)	Sr. Lectr.
Bull, W. R., BSc	Lectr.
Russell, B., PhD <i>Birm.</i> , BE	Lectr.
5 Lectrs.†, 2 Teaching Fellows, 9 Demrs.†, 2 Res. Assts.	

**Chemical Engineering**

Brooks, P. C., SM(ChemEng) <i>M.I.T.</i> , MScApp	Sr. Lectr.
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**English Language and Literature**

Cawley, A. C., MA PhD <i>Leeds</i>	Prof.
Thomson, A. K., MA	Prof.
Cochrane, G. R., MA <i>Melb.</i> , LèsL <i>Paris</i> (Phonetics)	Sr. Lectr.
Flint, E. H., MA	Sr. Lectr.
Hadgraft, C. H., MA BEd	Sr. Lectr.
Hamilton, K. G., MA BEd	Sr. Lectr.
Gerson, S. H., BA	Lectr.
Hanger, Eunice, MA	Lectr.
Wilson, R. B. J., MA DipEd <i>Syd.</i>	Lectr.
3 Jr. Lectrs.	

**Entomology**

Perkins, F. A., BScAgr <i>Syd.</i>	Reader
Woodward, T. E., PhD MSc	Sr. Lectr.
Exley, Elizabeth M., DIC, MSc	Lectr.
1 Demr., 1 Teaching Fellow	

**French**

Mahoney, J. C., MA BLitt <i>Oxon.</i>	Prof.
Denat, A. H. M., LèsL Dipl'd'ÉtSup <i>Paris</i>	Sr. Lectr.
Campbell-Brown, Kathleen, MA	Sr. Lectr.
Nicolas, J., LèsL Dipl'd'ÉtSup <i>Paris</i>	Lectr.
McArthur, D. G. M., MA <i>N.Z.</i> , DUParis	Lectr.
McWatters, K. G., BA DipEd	Lectr.
1 Tutor	

**Geography**

Greenwood, R. H., MA *Camb.* Prof.  
 Duncan, C., MA *N.Z.*, PhD *Ohio* Sr. Lectr.  
 Dick, R. S., MSc *N.Z.* Lectr.  
 Perry, T. M., BA DipEd *Syd.*, PhD *A.N.U.* Lectr.

1 Lectr.†, 2 Demrs., 1 Res. Asst.

**Geology and Mineralogy**

Wilson, A. F., DSc *W.Aust.* Prof.  
 Hill, Dorothy, PhD *Camb.*, DSc, FGS Prof.  
 Jones, O. A., DSc Reader  
 Robinson, E. V., BA Lectr.  
 Webb, J. P., BSc PhD *St.Louis* Lectr.  
 Stevens, N. C., BSc PhD Lectr.  
 Maxwell, W., DIC, BSc PhD Lectr.  
 2 Demrs., 5 Teaching Fellows

**German**

Leopold, K., BA *Syd.*, PhD Reader  
 Bonnin, G. M., MA PhD Lectr.  
 Powell, A. W., BA Lectr.  
 McInnes, M., MA DipEd Lectr.  
 1 Lectr.†

**History and Political Science**

Greenwood, G., MA *Syd.*, PhD *Lond.* McCaughey Prof.  
 Neale, R. G., MA DipEd *Melb.* Reader  
 Schaffer, B. B., BSc PhD Reader  
 Morrison, A. A., MA Sr. Lectr.  
 Joyce, R. B., BA LLB MLitt Sr. Lectr.  
 Truman, T. C., MA *Melb.* Sr. Lectr.  
 Tarling, P. N., MA PhD *Camb.* Lectr.  
 Grunshaw, C., MA DipEd *Syd.* Lectr.  
 Gunson, W. N., MA *Melb.*, PhD *A.N.U.* Lectr.  
 Knight, K. W., MEd *Syd.* Lectr.  
 Stoodley, June, BA Lectr.  
 1 Lectr.†, 2 Res. Fellows, 1 Res. Asst.

**Journalism**

Journalism A : 20 Sp. Lectrs.† ; Journalism B :  
 9 Sp. Lectrs.†

**Law**

Harrison, W. N. L., BA LLB Garrick Prof.  
 Anderson, H. R., MA *Oxon.*, LLB *W.Aust.* (Public L.) Prof.  
 Sykes, E. I., LL.D. *Melb.*, BA LLB Reader  
 Ryan, K. W., BA LLB Lectr.  
 Lumb, R. D., LL.M. *Melb.*, DPhil *Oxon.* Lectr.  
 7 Lectrs.†

**Mathematics**

Davis, C. S., MSc PhD Prof.  
 Hoffman, W. C., MA PhD *Calif.* (Appl. Maths.) Prof.  
 McCarthy, J. P., MA Assoc. Prof.  
 Finucan, H. M., MA *Oxon.* Reader  
 Morris, G. R., BSc *Syd.*, BA PhD *Camb.* Sr. Lectr.  
 Powell, H. K., MA BSc Lectr.

O'Donnell, M. P., MSc Lectr.  
 Steller, E. T., MSc DMaths *Ley.* Lectr.  
 Howard, L. S., BSc Lectr.  
 2 Lectrs.†, 1 Jr. Lectr., 3 Demrs.†

**Medicine, see below****Metallurgy, see Engin., Mining and Metallurgical****Mineralogy, see Geol.****Modern Languages, see Inst. of Mod. Langs., below****Music**

Brandon, H. E., FTCL Sr. Lectr., Organizer  
 Spearritt, G. D., BA MusBac *Melb.* Lectr.

**Parasitology**

Sprent, J. F. A., DSc PhD Prof.  
 May, N. D. S., BSc Sr. Lectr.  
 Pearson, J. C., MA PhD *Tor.* Lectr.  
 Tucker, R., DVSc *Warsaw*, DVMed *Munich* Lectr.  
 Watson, J. W., BVSc Lectr.  
 3 Res. Fellows, 4 Lectrs.†, 4 Demrs.†

**Philosophy**

Kyle, W. M., MA Prof.  
 James, G., MA BD Sr. Lectr.  
 Vallis, V. T., MA PhD Lectr.  
 Overend, R. G., MA *Edm.* Lectr.  
 7 Lectrs.†, 3 Res. Assts.

**Physical Education**

Burge, I. C., BPhysEd *Springfield*, BCom PhD Dir.  
 Simpson, K., BA DipPhysEd Asst. Dir.  
 Lindsay, P. L., DipPhysEd Instr.  
 5 Lectrs.†, 6 Demrs.†

**Physics**

Webster, H. C., CMG, DSc *Tas.*, PhD *Camb.*, FIP, FRMetS Prof.  
 Reimann, A. L., DSc *Adel.*, PhD *Berl.*, FIP Res. Prof.  
 Parsons, R. W., BE *Adel.*, DPhil *Oxon.*, FIP Reader  
 Robertson, D. F., MSc Reader  
 McNicol, R. W. E., MSc *Camb.*, PhD Sr. Lectr.  
 Crouchley, J., BSc *W.Aust.*, MSc *Adel.* Sr. Lectr.  
 Thomas, J. A., BSc *Adel.*, PhD Sr. Lectr.  
 Mugglestone, D., BSc PhD Sr. Lectr.  
 Noon, J. H., MSc PhD Sr. Lectr.  
 Stevens, K. A., BSc Lectr.  
 Taylor, R. G. S., MSc Lectr.  
 Burke, M. J., MSc Lectr.  
 Goodwin, G. L., BA MSc Lectr.

Singleton, D. G., MSc  
 Perrett, B. J., BSc  
 McGilvray, J. P., BSc  
 Bowman, G. G., MSc  
 Macky, W. A., MSc PhD *N.Z.*  
 5 Teaching Fellows, 8 Demrs.

### Physiology

Hawker, R. W., MD *Syd.* & *Q'ld.*, PhD,  
 MRACP Prof.  
 Budtz-Olsen, O., MD Prof.  
 Ladd, R. J., BVSc BSc *Syd.* Reader  
 Kratzing, C. C., MSc *Syd.*, PhD *Lond.* Sr. Lectr.  
 Blackshaw, A. W., DVSc *Syd.* Sr. Lectr.  
 Cross, R. B., PhD *Edm.*, BSc MB BS Sr. Lectr.  
 Klemm, G. H., BSc Lectr.  
 Harvey, Nancy E., BSc Lectr.  
 Whyte, J. M., BSc Lectr.  
 8 Demrs., 4 Res. Assts.

**Political Science**, see Hist. and Pol. Sci.

### Psychology

McElwam, D. W., MA PhD, FBPsS Prof.  
 Naylor, G. F. K., MA MSc *Syd.*, PhD  
 DipEd Reader  
 Keats, J. A., BSc MA PhD Sr. Lectr.  
 Harwood, Elsie, MA PhD Sr. Lectr.  
 Tugby, D. J., PhD *A.N.U.*, BA BSc Lectr.  
 Mortimer Tanner, R. S., BA Lectr.  
 Enticknap, L. E., MA Lectr.  
 1 Demr., 2 Res. Fellows, 15 Demrs.†

### Surveying

Buley, J. V., BSc Reader  
 Miller, P. C., BSurv Lectr.  
 1 Lectr.†

### Veterinary Preventive Medicine

Francis, J., DSc *Lond.* Prof.  
 Winter, H., DrMedVet *Vienna* Sr. Lectr.  
 Seawright, A. A., BVSc BSc Sr. Lectr.  
 2 Res. Fellows, 4 Lectrs., 1 Demr.†

### Zoology

Stephenson, W., BSc PhD *Dalh.* Prof.  
 Bleakly, M. C., MSc *N.Z.*, DPhil *Oxon.* Sr. Lectr.  
 Mather, W. B., MSc PhD Sr. Lectr.  
 Endean, R., MSc *Syd.*, PhD Sr. Lectr.  
 Dall, W., MSc Lectr.  
 Bayly, I. A. E., MSc *N.Z.* Lectr.  
 Lee, A. K., BSc *N.Aust.* Lectr.  
 Stenhouse, D., MA BSc *N.Z.* Lectr.  
 7 Demrs., 4 Teaching Fellows

## MEDICINE

### Anatomy

Hickey, M. F., MA MB BS Prof.  
 Arnold, M., MB BCh *Rand.*, FRCS Reader  
 7 Temp. Lectrs.

### Bacteriology

Lectr. Skerman, V. B. D., BAgSc  
 Lectr. Back, K. J. C., MSc *Syd.*, PhD Sr. Lectr.  
 Lectr. Halliday, W. J., BSc PhD Sr. Lectr.  
 Lectr. Atherton, J. G., BScApp(MedSc) PhD Lectr.  
 1 Lectr.†, 4 Demrs.

### Clinical Studies

Burns, R. H. G., BVSc *Syd.* Reader  
 Osborne, H. G., BVSc Reader  
 English, P. B., BVSc Sr. Lectr.  
 Berriman, J. A., BVSc *Syd.* Lectr.  
 Collins, G. W., BVSc Lectr.  
 Grono, L. R., BVSc *Syd.* Lectr.  
 6 Lectrs.†

### Medical Psychology, Psychiatry and Mental Hygiene

Bostock, J., MB BS DPM *Lond.*, FRACP Res. Prof.  
 2 Res. Assts.

### Medicine

Tyrer, J. W. H., MD BS *Syd.* Prof.  
 Steinbeck, A., MD BS *Syd.*, PhD *Lond.* Reader  
 Lloyd, H. M., MA DM BCh *Oxon.*,  
 PhD *Lond.* (Clin.) Sr. Lectr.  
 Sanders, Dorothea F., MSc PhD Sr. Lectr.  
 Emmerson, B. T., MB BS Sr. Lectr.  
 Jackson, D. C., DSC, MB BS DCH  
 (Paediatrics) Half-time Sr. Lectr.  
 4 Teaching Registrars, 1 Res. Asst., 43 Asst.  
 Clin. Lectrs., 16 Clin. Lectrs., 17 Tutors

### Obstetrics and Gynaecology

Shedden Adam, G. W., MB BS *Syd.*,  
 FRCS, FRCOG Half-time Prof.  
 Esler, E. J., MB BS Half-time First Asst.  
 3 Teaching Registrars, 5 Specialist Lectrs.,  
 7 Clin. Lectrs., 14 Asst. Clin. Lectrs.,  
 2 Tutors

### Pathology

Canny, A. J., BSc MB BS *Syd.* Prof.  
 Inglis, J. A., MB BS (Clin. P.) Reader  
 Vickers, T. H., MB *Syd.* Sr. Lectr.  
 1 Demr., 2 Demrs.†

### Physiotherapy and Occupational Therapy

Lectr.-in-Charge  
 Philcox, Mrs. Sara Lectr.  
 Geason, J. Lectr.  
 Forster, A. Louisa Lectr.  
 Fyfe, Margaret C. Lectr.  
 21 Lectrs.†, 6 Demrs.

**Psychiatry**, see Med. Psychol.

### Social and Preventive Medicine

Gordon, D., MB BS Prof.  
 Silverstone, H., MA PhD Sr. Lectr.  
 27 Lectrs.†

**Surgery**

Sutton, N. G., MB ChM *Syd.*, FRCSEd, FRACS Prof.  
 Mitchell, R. M., MB ChM BMedSc N.Z. Reader  
 18 Sp. Lectrs., 7 Clin. Lectrs., 30 Asst.  
 Clin. Lectrs., 18 Tutors, 3 Teaching Registrars

**EXTERNAL STUDIES**

Olsen, F. J., BSc MEd *Melb.*, PhD Dir.  
 Popple, Myra A., BA (Maths.) Lectr.  
 Capell, K., BSc (Maths.) Lectr.  
 Dignan, D. K., BA (Hist.) Lectr.  
 Edwards, P. D., BA (Engl.) Lectr.  
 Elliott, C. J., BSc(Econ) *S'ton.* (Econ.) Lectr.  
 Needham, Rev. G., TD *Lond.*, MA (Educn.) Lectr.  
 Genn, J. M., BSc BA (Educn.) Lectr.  
 Glad, A. H., BA (Engl.) Lectr.  
 Goodman, R. D., BA BEd PhD (Educn.) Lectr.  
 Goodwin, K. L., BA (Engl.) Lectr.  
 Harris, C. P., BCom BEc (Econ.) Lectr.  
 Laverty, J., BA (Hist.) Lectr.  
 Rinaldi, F., MA *W.Aust.* (Philos.) Lectr.

Ruddell, Caroline, BA (Classics) Lectr.  
 Watts, Betty H., BA (Educn.) Lectr.  
 White, Olive N., BA (French) Lectr.

**INSTITUTE OF MODERN LANGUAGES**

Mitchell, W. F. (Chinese) Tutor  
 Panchenko, A. (Chinese) Tutor  
 Goosens, W. (Dutch) Tutor  
 Beven, R., BA (French) Tutor  
 Johnson, Miss M., BA (French) Tutor  
 Bowker, Mrs. E. (French) Tutor  
 Campbell Brown, Kathleen, MA (French) Tutor  
 Powell, A. W., BA (German) Tutor  
 Bonnin, G. M., MA PhD (German) Tutor  
 Bowker, E. (German) Tutor  
 Kothari, N. M. (Hindi) Tutor  
 Rinaldi, F. (Italian) Tutor  
 McArthur, D. G. M. (Italian) Tutor  
 McDonell, R. E. (Italian) Tutor  
 Mathieson, K. M. (Japanese) Tutor  
 Josiffe, R. J. (Malay) Tutor  
 Muller, G. G. C. (Malay) Tutor  
 Patson, N. (Mod. Greek) Tutor  
 Pappadopoulos, Mrs. E. (Russian) Tutor  
 Young, Mrs. S. (Spanish) Tutor

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar (Admin.): L. N. Livingston.  
 Asst. Registrar (Academic): S. A. Rayner, MEd *Melb.*, EdD *Ill.*, MA. Student Counsellor: H. W. Thiele, MA PhD. Librarian: H. Bryan, MA.  
 Manager of Univ. Press: F. A. Perkins, BScAgr *Syd.* Warden of Overseas Students: Prof. F. T. M. White, BMetE *Melb.*, FGS.

PRINCIPALS OF RESIDENTIAL COLLEGES. Cromwell (Congregational): Rev. G. L. Lockley,

MA BD; Duchesne (R.C. Women): Joan Percy-Dove, DipEd *Syd.*, MA; Emmanuel (Presb.): Rev. L. J. Douglas; King's (Methodist), master: Rev. I. H. Grimmett, MA; St. John's (C. of E.), warden: Canon A. L. Sharwood, MA PhD; St. Leo's (R.C.), rector: Rev. Fr. Johnston; Univ. of Queensland Union Coll., hon. warden: Prof. M. F. Hickey, MA MB BS; Women's (undenominational): Eunice Macindoe, BSc.

**GENERAL INFORMATION**

The univ. was establ. by an act of the state legislature in 1909 and teaching in the facs. of arts, sci. and engin. commenced in 1911. Other facs. establ. were: comm. 1926; agric. 1926; law 1930; dent. 1935; vet. sci. 1936; med. 1936; archit. 1948; educn. 1948. Provision for external students has been made since 1911.

The move from the temp. bldgs. to the permanent site at St. Lucia was planned in 1936 but as a result of war-time delays the transfer began only in 1949.

Enrolments first reached the following levels in the years indicated: 1000 (1934), 2000 (1945), 3000 (1946), 4000 (1948), 5000 (1956), 6000 (1958), 7000 (1959), 8000 (1960).

In 1961 the Univ. Coll. of Townsville will provide 1st-yr. classes in the facs. of arts, sci. and engin.

The univ. serves the state of Q'ld. (pop. 1,441,000; area 667,000 sq. mls.) and enrolls

external students from adjacent commonwealth territories.

CONSTITUTION. The governing body, the senate, consists of 27 members, 14 apptd. by the state govt., 9 elected by the univ. council (consisting of all grads., all teaching staff, benefactors, etc.), 3 *ex-officio* members (the dir.-general of educn., vice-chancellor and the pres. of the prof. bd.) and a rep. of the staff assocn. A full-time vice-chancellor is the exec. officer of the senate and the chief admin. officer of the univ.

INCOME (1960). £A2,219,000 (state govt., £A910,000; commonwealth govt., £A691,000; fees, £A465,000; other, £A153,000).

FACULTIES AND DEANS. *Agric.*, Prof. L. J. H. Teakle; *archit.*, Prof. R. P. Cummings; *arts*, Prof. R. H. Greenwood (geog.); *comm. & econ.*, W. R. Lane (econ.); *dent.*, Prof. S. F. Lumb; *educn.*, .....; *engin.*, Prof. S. A. Prentice

(electr. engin.); *law*, Prof. W. N. L. Harrison; *med.*, Prof. N. G. Sutton (surg.); *sci.*, Prof. T. G. H. Jones (chem.); *vet. sci.*, Prof. J. Francis.

**UNIVERSITY PRINCINCT.** The St. Lucia site of 242 acres lies in a pocket of the river some 5 mls. from the centre of Brisbane (pop. 527,000). The main bldgs. of the facs. of arts, sci., comm. & econ., agric., law, vet. sci., educn., and archit., are on an elevated ridge. On the river flats are four ovals, 16 tennis courts, boat shed and other sporting facilities. Other bldgs. house admin., library, electr. engin., structures lab., students' union. Further bldgs. for facs. and depts. now at other sites will be built at St. Lucia.

**LOCATION OF OUTSIDE DEPTS.** Med. sch., Herston Rd., Herston, Brisbane; vet. sci. sch., Yeerongpilly, Brisbane; exper. farm (Moggill), Moggill, Brisbane; exper. farm (Redland Bay), Redland Bay; exper. mine, Indooroopilly, Brisbane; remedial educn. centre, George St., Brisbane; dent. coll., Turbot St., Brisbane.

**LIBRARY.** 200,000 vols. incl. Fryer libr. (Aust.) 5280 vols., Thatcher libr. (ext. studies) 14,976 vols., Ringrose librs. (in country towns) 2181 vols. and depts. librs.

**LABORATORIES.** Seismol. room and vault, radio res., radon, X-ray, hydraulics, high voltage engin. and normal deptl. labs.

**TEACHING HOSPITALS.** Brisbane General (1531 beds), Princess Alexandra (610 beds), Mater Misericordiae (460 beds).

**ADMISSION.** See Appendix II. Enrolments close Jan. for new students. Overseas students should apply in Dec. and forward full credentials.

**FIRST DEGREES.** (\* indicates degree can be completed wholly or in part by evg. study) 3 yrs.—BA\*, BCom\*, BEd\*, BPharm, BSc\*; 4 yrs.—BA hons., BCom hons., BEc hons., BSc hons., BScFor, BAgSci, BScApp (indust. chem. or geol.), BPhysio, BDSc, BE, BSocStud, BSurv; 5 yrs.—BVetSci, LLB\*, BE(chem.); 6 yrs.—MB BS, BAArch.

BA hons. may be taken in classics, econ., Engl., French, geog., German, hist., Latin, maths., philos., pol. sci., psychol.

BSc hons. may be taken in bacteriol., bot., biochem., chem., entomol., geol., maths., metall., phys., physiol., zool.

It is expected that BCom or BEc hons. may be taken in accty, econ. stats., geog., maths., pol. sci., pub. admin., psychol. in 1961.

**HIGHER DEGREES.** Open to grads.: BEd, BD. Open to bachelors of 2 yrs.' standing of this or other approved univs.: MA, MCom, MEcon, MSc, MDSc, MAppSci, LLM, MArch, MEd, MS, MTh; of 3 yrs.' standing: MScFor, ME, MVetSci, MAgSci, MD; of 4 yrs.' standing: DDSc; of 5 yrs.' standing: DAgSci, DSc, DD, DVSc, DScFor; of 7 yrs.' standing: DLitt, DEcon, DE. Open to masters of 3 yrs.' standing: DE; of 5 yrs.' standing: LL.D. Standing required before admission to the PhD course varies according to fac. in which prior degree taken. PhD can be awarded in all facs.

These higher degrees are obtained by exam. and/or thesis, but in some cases certain specified outside experience is required in addn.

**EVENING AND EXTERNAL STUDENTS.** In the courses available to them, evg. and external students are permitted to spread their studies over a longer period than day students and pay a proportionate amount of fees each yr. Degrees available to ext. students incl. BA, BCom, BEc, LLB, BEd, MA, MCom, MEc, LLM, MEd. Students for higher degrees must have completed hons. course or equivalent (normally as internal students). The first 3 yrs. of the BE course may be completed by pt.-time study. External enrolments are accepted from students resident in Qld., the Northern Territory and the Territory of Papua & New Guinea.

**DIPLOMAS.** Comm. (on unit basis, approx. 3 yrs.); journalism, 2 yrs. for persons with 3 yrs.' practical experience; physiotherapy, occupnl. therapy, phys. educn., soc. studies, 3 yrs.; publ. admin., 2 to 3 yrs.; music, div., 2 yrs.; educn., educnl. psychol., sugar technol., sugar sci., 1 yr. postgrad.; ophthalmol., postgrad.; psychol. med., postgrad.

**CERTIFICATES** (pt.-time, evg. and ext.): educn. (AEd) (on subject basis, approx. 3 yrs.); accty. (AAUQ), 3 yrs. (may be followed in approved colls. or instns.); teaching and trg. of sub-normal children, 1 yr. postgrad.

**RESEARCH.** Annual res. report containing summary of work on each project is available free on request. Res. grant £A75,000 from univ. funds plus outside sources.

The univ. has a mod. punch-card installation which is available at sp. times for res. purposes.

**STUDY LEAVE.** Leave for 12 mos. on full pay may be granted after 6 yrs.' service. An allowance based on number of dependants may be made.

**FEES.** Dent., engin., med., vet. sci., £A144 p.a.; agric., arts (hons.), pharm., sci., £A120 p.a.; arts, comm., econ., educn., law, £A105.

**ACADEMIC YEAR.** March to Nov., 3 terms of 12, 9, 9 weeks.

**ADULT EDUCATION.** Public lectures cttee. organizes lectures in Brisbane and country areas. Inst. of Mod. Langs.: courses offered at elem., inter. and advanced levels.

**VACATION COURSES.** Phys. educn. for teachers; ext. studies provides lectures for external students in certain subjs. Both during Aug. vac.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS.** Commonwealth scholps. (see p. 12) and fellowships to those bonded to serve govt. or other employer.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** Commonwealth postgraduate awards (see p. 12).

**STUDENT COUNSELLOR.** Educational and personal counselling is available from student counsellor who carries out appts. bd. functions.

**GRADUATES ASSOCIATIONS.** Men grads.' assocn.: sec., H. W. O'Dea, 106 Laura St., Ekibin. Women

grads.' assocn.: sec., Mrs. A. N. Jorss, 19 Cawmore Rd., Galloway's Hill.

**STUDENT RESIDENCES.** *Men's colls.*: Cromwell Coll., Walcott St., St. Lucia (tel.: 7-1151), £A6 p.w., 76 students; Emmanuel Coll., Upland Rd., St. Lucia (tel.: 7-1105), £A5: 10s. p.w., 150; King's Coll., Upland Rd., St. Lucia (tel.: 7-3939), £A6 p.w., 85; River Tce., Kangaroo Pt. (tel.: 91-4136), £A5: 10s. p.w., 82; St. John's Coll., Mill Rd., St. Lucia (tel.: 7-5739), £A6 p.w., 110; St. Leo's Coll., 269 Wickham Tce., Brisbane (tel.: 2-9305), £A4 p.w., 80; Union Coll., Wickham Tce., Brisbane (tel.: 2-4992), £A5: 5s. p.w., 100. *Women's colls.*: Duchesne Coll., Mill Rd., St. Lucia (tel.: 7-6212), £A5: 5s. p.w., 50; Women's Coll., Mill Rd., St. Lucia (tel.: 7-1100), £A6: 10s. p.w., 70.

**UNIVERSITY MILITARY AND AIR FORMATIONS.** Qld. Univ. Regiment founded in 1948. Primarily officer and N.C.O. trg. unit, mainly volunteers, though increased by natl. service trg. Qld. Univ. Squadron founded in Nov. 1950. Four flights, tech., med., equip. and admin. Cadets allotted according to faculty.

**STUDENT HEALTH SERVICE.** Pt.-time specialist available for consultation; student health officer apptd. by the Union. Service covers anti-TB campaign, diagnostic health service, phys. educn. (compulsory for 1st yr. med. & physio., voluntary

for others), vaccination for med., dent., vet. sci. and bacteriol.

**STUDENT UNION.** Administered by students, helps organize univ. soc. life, refectories, common rooms, publicns.; secures co-op. of univ. authorities, staff, grads. and undergrads.; publishes newspaper. Financed almost entirely by membership subs. (compulsory for internal students).

**PUBLICATIONS.** *Calendar*, £A1; *Handbooks* for all facs., 3s. each; *Manual of Public Exams.*, 4s., postage 3d. extra; *Music Manual*, 2s., postage 3d.; *Australian Journal of Politics & Hist.*, £A1: 1s. p.a. (2 issues); *Slow Learning Child*, 10s. 6d. p.a. (3 issues); *fac. Brochures*; *The Univ. and its Courses* (entrance requirements, courses of study and vocational opportunities); *The Univ. of Queensland—Its Development and Expansion*; *Univ. Gazette*; *Univ. Law Journal*; *Macrossan Lectures*; *Univ. of Q'ld. Handbook*.

**UNIVERSITY BOOKSHOP.** Branches at George St., St. Lucia and Herston. Under univ. admin. Specializes in students' text-books, apparatus, etc.

**UNIVERSITY OF QUEENSLAND PRESS.** Establd. in 1948. Publishes text-books, lab. manuals and other academic works approved by the publicns. ettee., and maintains a bookshop for sale of text-books, stationery, apparatus and other student requisites.

## THE YEAR 1959

**NEW DEPARTMENTS AND CHAIRS.** Pub. law, Engl. (2nd), gen. physiol.

**RETIREMENTS.** Prof. W. H. Bryan (geol.), A. R. Munro (mech. engin.).

**RESIGNATIONS.** Dr. S. R. Davis (hist. & pol. sci.), apptd. sr. res. fellow, Melb.; I. A. Evans (maths.), apptd. sr. lectr., appl. maths., Melb.; Dr. N. Xeros (zool.), apptd. to pathol. dept., Melb.

### Statistics

STUDENT NUMBERS, April 1960

	Full-Time	Part-Time Evening*	Part-Time External†
Men . . .	2792	1904	1988
Women . . .	719	747	322
Total . . .	3511	2651	2510

Distribution by Faculties. *Agric.*, 214; *archit.*, 158; *arts*, 2016; *comm. & econ.*, 1242; *dent.*, 226; *educn.*, 1627; *engin.*, 552; *law*, 152; *med. & physio.*, 902; *phys. educn.*, 64; *sci.*, 1327; *vet. sci.*, 203.

Included in the figures above are:—

Higher degree students, 190.

\* Includes: *agric.*, 9; *archit.*, 88; *arts*, 757; *comm. & econ.*, 510; *educn.*, 518; *engin.*, 41; *law*, 74; *phys. educn.*, 64; *sci.*, 432.

† Includes: *archit.*, 1; *arts*, 813; *comm. & econ.*, 583; *educn.*, 985; *engin.*, 3; *law*, 31; *sci.*, 90.

New admissions, 2090.

Students from other countries, 461. (Countries from which largest numbers came: Fed. of Malaya, 149; Indonesia, 45; Singapore, 44; N.Z., 36; Fiji, 35; Hong Kong, 23).

**DEGREES AWARDED (1959).** *Agric.*: BAgSc, 15; BScFor, 3; MScFor, 2; MAgSc, 1. *Archit.*: BArch, 2. *Arts*: BA, 97; BA (hons.), 18; MA, 6. *Comm. & econ.*: BCom, 40; BEcon, 12. *Div.*: BD (hons.), 1; BD, 3. *Dent.*: BDSce, 28; MDSc, 1. *Educn.*: BEd, 10; BEd (hons.), 8; MEd, 3. *Engin.*: BE, 42; BE (hons.), 15; BSurv, 4. *Law*: LLB, 11; LLB (hons.), 1. *Med.*: MB BS, 41; MB BS (hons.), 2; MS, 4; MD, 1. *Sci.*: BSc, 77; BSc (hons.), 1; MSc, 14; BScApp(IndChem), 4; BScApp(IndChem) (hons.), 3; BScApp(Phty), 4. *Vet. sci.*: BVSc, 10; BVSc (hons.), 4; MVSc, 1. PhD (all facs.): 1.

**DIPLOMAS AWARDED (1959).** DipEd, 36; DipArch, 7; DipCom, 25; DipDiv, 5; DipMus, 1; DipOccTher, 11; DipPhysEd, 21; DipPhysio, 21; DipM&EEng, 1; DipSocStud, 3; DipPubAdmin, 1.

**CERTIFICATES AWARDED (1959).** Accty. (AAUQ), 84; educn. (AFed), 46; teach. and trg. of subnorm. children, 5.



# UNIVERSITY OF SYDNEY\*

Founded 1850

Postal Address : Sydney, New South Wales, Australia

Cables and Telegrams : Sydney University, Sydney

Telephone : 68 0522

VISITOR—H.E. THE GOVERNOR OF NEW SOUTH WALES

CHANCELLOR—J.A.-Col. Sir CHARLES B. BLACKBURN, KCMG, OBE, BA *Adel.*, DSc *N.S.W.*, *Tas.* & *Q'ld.*, DLitt *N.E.*, LL.D *Melb.*, MD ChM, FRCP, FRCPEd, FRACP

DEPUTY-CHANCELLOR—Major-General I. N. DOUGHERTY, CBE, DSO, ED, BEc

VICE-CHANCELLOR AND PRINCIPAL—Emeritus Professor S. H. ROBERTS, CMG, MA LittD *Melb.*, LL.D *Brist.*, Br.Col. & McG., DSc(Econ) *Lond.*, DCL *Durh.*, DLitt *N.E.*

DEPUTY VICE-CHANCELLOR—Emeritus Professor C. R. McRAE, PhD *Lond.*, MA DipEd *Melb.*

ASSISTANT PRINCIPAL—W. H. MAZE, MSc

REGISTRAR—MARGARET A. TELFER, OBE, BA DipEd

LIBRARIAN—A. D. OSBORN, PhD *Col.*, AMLS *Mich.*, MA *Melb.*

## TEACHING STAFF

[† - Part-Time]

**Agriculture**, see also Animal Husb. and  
Vet. Sci.

McMillan, J. R. A., MS *Corn.*, DScAgr Prof.

Campbell, K. O., AMPhD *Chic.*, MPA *Harv.*,  
BScAgr (Agric. Econ.) Res. Prof.

Vincent, J. M., DipBact *Lond.*, DScAgr  
(Agric. Microbiol.) Assoc. Prof.

Watson, I. A., PhD *Minn.*, BScAgr  
(Genetics & Plant Breeding) Assoc. Prof.

White, N. H., DSc *Tas.*, MSc  
(Plant Pathol.) Assoc. Prof.

Breyer, B. Z., DrPhil *Bonn*, MD *Padua*,  
FRACI (Agric. Chem.) Assoc. Prof.

Collis-George, N., PhD *Camb.*, MSc *Manc.*  
(Soil Sci.) Assoc. Prof.

Whittlestone, W. G., DSc *N.Z.*  
(Dairy Husb.) Reader

Jenkins, H. V., BScAgr  
Dir. North West Wheat Res. Inst.,  
Narrabri, N.S.W.,

T'chan, Y. T., DSc *Paris*  
(Agric. Microbiol.) Linnean Macleay Sr.  
Lectr.

Baker, E. P., PhD *Calif.*, BScAgr  
(Genetics & Plant Breeding) Sr. Lectr.

Hacopian, S., PhD MSc  
(Agric. Chem.) Sr. Lectr.

Crofts, F. C., BScAgr (Agron.) Sr. Lectr.

Anderson, R. H., BScAgr (For.) †Lectr.

Griffin, D. M., MA PhD *Camb.*  
(Plant Pathol.) Lectr.

Jackson, D. L., BScAgr (Agric. Bot.) Lectr.

Bunt, J. S., PhD BScAgr (Microbiol.) Lectr.

Bauer, H. H., PhD MSc (Agric. Chem.) Lectr.

Davey, B. G., PhD *Aberd.*, BScAgr  
(Soil Sci.) Lectr.

Parish, R. M., BScAgr (Agric. Econ.) Lectr.

Balaam, L. N., BSc *Q'ld.*  
(Biometrical Methods) Lectr.

Carter, O. G., MS *Corn.*, BScAgr  
(Agron.) Lectr.

McPhillips, J., PhD BScAgr  
Res. Officer

## Anatomy

Macintosh, N. W. G., MB BS DipAnth

Challis Prof.

Gabriel, A. C., DDSc (Dental A.) Sr. Lectr.

Thwaites, C. F., MB BS Sr. Lectr.

Perrott, J. W. Sr. Lectr.

Nield, J. M., MB BS, FRCS Sr. Lectr.

## Animal Husbandry

Robinson, T. J., PhD *Camb.*, MSc(Agric)

*W.Aust.*

Prof.

Geddes, H. J., MAgrSc *N.Z.*

Sr. Lectr. Dir. of Animal Husb. Farms,  
Garland

McNary, H. W., PhD MS BSA *Purdue*

(Poultry Husb.) Dir.

Walker, D. M., MSc *Lond.*, PhD BSc *R'dg.*

(A. Nutr.) Sr. Lectr.

Barker, J. F. S., BAgSc *Q'ld.*

(on leave) (A. Genetics) Lectr.

\* Member of the Association of Universities of the British Commonwealth

Ryan, R. K., BVSc  
(on leave) (A. Management) Lectr.  
Wardrop, I. D., PhD MScAgr *Melb.* Lectr.

**Anthropology**

Geddes, W. R., MA N.Z., PhD *Lond.*  
(Soc. A.) Prof.  
Hogbin, H. I. P., PhD *Lond.*, MA  
(on leave) Reader  
Capell, A., PhD *Lond.*, MA  
(Oceanic Langs.) Reader  
Meggitt, M. J., MA PhD Lectr.  
Jayawardena, C., BA PhD *Lond.*, BA *Ceyl.* Lectr.

**Archæology**

Stewart, J. R. B., MA *Camb.*  
(Middle Eastern A.) Hall Prof.  
Hennessy, J. B., BA Lectr.

**Architecture**

Ashworth, H. I., MA BArch *Manc.*, FRIBA,  
FRAIA Prof.  
Cowan, H. J., PhD *Sheff.*, MSc *Manc.*  
(Archit. Sci.) Prof.  
Winston, D., BArch *Liv.*, AM *Harv.*,  
FRIBA (Town & Country Planning) Prof.  
Baldwinson, A. N., FRAIA (on leave) Sr. Lectr.  
Molnar, G., DipIngArch *Bud.* Sr. Lectr.  
Meyer, A. R., BArch Sr. Lectr.  
Collard, M., BCE BArch *Melb.*, FRAIA  
Sr. Lectr.  
Woffenden, H. G., MA *Lond.* Sr. Lectr.  
Boileau, I. E., MA *Camb.*, PhD *Manc.*  
(Town & Country Planning) Sr. Lectr.  
Rees, L. (Hist. of Sculpture & Painting) †Lectr.  
Trevor-Jones, E., BArch Lectr.  
Clarke, J. H., BSc N.Z. (Archit. Sci.) Lectr.  
Bunker, R. C., MA *Birm.*  
(Town & Country Planning) Lectr.  
van Zyl, F. D. W., BArch *Cape T.*  
(Town & Country Planning) Lectr.

**Biochemistry**

Still, J. L., PhD *Camb.*, BSc  
(on leave) McCaughey Prof.  
Eden, Eva, MA PhD *Camb.* Sr. Lectr.  
Hensley, W. J., MD BS, MRACP Sr. Lectr.  
Pollak, J. K., PhD *McG.*, BSc  
(on leave) Sr. Lectr.  
Kellerman, G. M., MB BS MSc Sr. Lectr.  
Webster, H. L., PhD *Camb.*, BSc Lectr.  
Lunnane, A. W., PhD MSc Lectr.  
Wood, T., DIC, PhD BSc *Lond.* Lectr.  
Hunt, A. L., PhD BSc *Adel.* Lectr.  
Dougall, D. K., DPhil *Oxon.*, MSc *W.Aust.* Lectr.

**Botany, see also Agric.**

Crocker, R. L., DSc *Adel.* (on leave) Prof.  
Mercer, F. V., PhD *Camb.*, BSc *Adel.*  
(Plant Physiol.) Assoc. Prof.  
Smith-White, S., DScAgr Reader  
Newman, I. V., PhD *Lond.*, MSc Sr. Lectr.  
Lecturers  
Carolyn, R. C., BSc *Lond.* (Systematic Botanist)

Martin, A. R. H., MA *Camb.*, PhD *Lond.*  
Berrie, G. K., PhD *Lond.*, BSc *Manc.*  
ap Rees, T., BA DPhil *Oxon.*  
Hughes, A. P., MA PhD *Camb.*

Sr. Tutor

Webster, Jessie A., BSc

**Chemical Engineering, see Engineering****Chemistry**

Le Fèvre, R. J. W., DSc PhD *Lond.*,  
FRS, FRIC, FRACI, FAA  
Prof., Hd. of Sch.  
Shoppee, C. W., DrPhil *Basle*, DSc  
PhD *Lond.*, FRIC, FRS, FRACI,  
FAA (Org. C.) Prof.  
Alexander, A. E., BSc *R'dg.*, MA PhD  
ScD *Camb.*, FRACI, FAA (Phys. C.) Prof.  
Lions, F., PhD *Manc.*, BSc Reader  
Iredale, T., DSc *Lond.*, BSc, FRIC, FRACI  
Reader  
Ritchie, E., DSc, FRACI Sr. Lectr.  
Broe, J. J., MSc DipEd *Q'ld.* Sr. Lectr.  
Craig, J. C., DIC, PhD BSc *Lond.*,  
FRIC, FRACI Sr. Lectr.  
Lyons, L. E., PhD *Lond.*, BA MSc Sr. Lectr.  
Ross, I. G., PhD *Lond.*, MSc Sr. Lectr.  
Gibson, N. J., MSc PhD Sr. Lectr.  
Green, R. A. W., DSc N.Z., FRIC,  
FRACI Sr. Lectr.  
Freeman, H. C., MSc PhD Sr. Lectr.  
Parts, A. G., DrPhilNat DrHabil  
MagChemTechn *Tartu*, FRACI Sr. Lectr.  
Harle, A. J., MSc DipEd Lectr.  
Taylor, W. C., PhD *Manc.*, MSc Lectr.  
Holland, H. G., PhD *Camb.*, MSc Lectr.  
Stevenson, Brenda J., MSc N.S.W. Lectr.

**Divinity, see below****Economics**

Butlin, S. J., MA LittD *Camb.*, BEc Prof.  
Spann, R. N., MA *Oxon.*  
(Govt. & Pub. Admin.) Prof.  
Chambers, R. J., BEc (Acctg.) Prof.  
Rutherford, R. S. G., MA *Oxon.*  
(E. Stats.) Assoc. Prof.

**Senior Lecturers**

Black, H. D., MEC (Econ.)  
Kewley, T. H., MA DipSocStud  
DipPubAdmin (Govt. & Pub. Admin.)  
Gates, R. C., MA *Oxon.*, BCom *Tas.* (Econ.)  
Laffer, K. M., BA *W.Aust.* (Econ.)  
Simpson-Lee, G. A. J., BEc (Econ.)  
Ginswick, J., BSc(Econ) *Lond.* (E. Hist.)  
Mayer, H., MA *Melb.* (Govt. & Pub. Admin.)  
Edwards, H. R., DPhil *Oxon.*, BA (Econ.)  
Wheelwright, E. L., DFC, MA *St.And.* (Econ.)  
Wilson, J. R., MEc (Econ.)  
Buckley, K. D., BA *Lond.* (E. Hist.)  
Birch, A., MA PhD *Manc.* (E. Hist.)  
Konijn, H. S., AM *Col.*, PhD *Calif.*  
(Econ. Stats.)

Shaw, A. E., BEc, FASA (Accounting)  
 Drane, N. T., AM *Harv.*, BEc (Econ.)  
 Lecturers  
 Bridge, A. B. K. I., QC, LLB  
 (Comml. & Indust. Law)†  
 Kolsen, H. M., BEc (Econ.)  
 Loveday, P., BA (Govt. & Pub. Admin.)  
 Martin, R. M., MA *N.Z.*, PhD *A.N.U.*  
 (Govt. & Pub. Admin.)  
 Kmenta, J., AM *Stan.*, BEc (Econ.)  
 Westerway, P. B., BEc (Govt. & Pub. Admin.)  
 Laing, N. F., BA *Camb.* (Econ.)

### Education

Connell, W. F., PhD *Lond.*, MA *Ill.*,  
 MA *Med Melb.* Prof.  
 Philp, H. W. S., PhD *Harv.*,  
 MA *Harv. & Syd.* Sr. Lectr.  
 Howie, G., MA EdB *Aberd.* Sr. Lectr.  
 Campbell, W. J., PhD *Lond.*, MA DipEd  
*N.Z.* Sr. Lectr.  
 Wylie, Joyce F., PhD *Ill.*, BA *Med* Sr. Lectr.  
 Miller, T. W. G., DFC, PhD *Birm.*, BA  
 Sr. Lectr.  
 Spearitt, D., MA *Med Q'ld.* Sr. Lectr.  
 Debus, R. L., PhD *Ill.*, BA DipEd Lectr.  
 MacLaine, A. G., PhD *Lond.*, MA *Tas.*,  
 BEd *Melb.* I

### Engineering, see below

### English

Mitchell, A. G., PhD *Lond.*, MA  
 (Early E. Lit. & Lang.) McCaughey Prof.  
 Milgate, W., MA (E. Lit.) Challis Prof.  
 Russell, G. H., PhD *Camb.*, MA *N.Z.* Reader  
 Wilkes, G. A., DPhil *Oxon.*, MA DipEd Sr. Lectr.  
 Cross, K. W. G., MA PhD DipEd *Dub.* Sr. Lectr.  
 Rogers, H. L., MA *Oxon.* Sr. Lectr.  
 Herring, Thelma G., MA *Oxon. & Syd.* Lectr.  
 Martin, B. K., MLitt *Camb.*, MA *N.Z.* Lectr.  
 Dunlop, R. T., BA DipEd Lectr.  
 Delbridge, A., MA *Lond.*, BA DipEd Lectr.  
 Maidment, W. M., BA Lectr.  
 French, A. L., MA *Camb.* Lectr.  
 Davison, P. H., MA *Lond.* Lectr.  
 Gunn, J. S., MA Lectr.  
 Little, G. L., BA *N.Staffs.*, MA *Melb.* Lectr.  
 Bonnell, Valma M., BA *Q'ld.* Lectr.  
 Burrows, J. F., BA DipEd Sr. Tutor  
 Bernard, J. R. L., BA BSc DipEd Sr. Tutor

### Forestry, see Agric.

### French

Henning, I., DU *Paris*, BA McCaughey Prof.  
 Goesch, K. J., DU *Paris*, BA DipEd Sr. Lectr.  
 Ridley, L. A. H., BA Lectr.  
 Chambers, L. R., MA DipEd Lectr.  
 Fontaney, P., BLitt *Oxon.* Lectr.  
 Kirsop, W., BA Lectr.  
 Calf, L. G., LèsL *Montpellier*, BA  
 DipEd Sr. Tutor

### Geography

..... McCaughey Prof.  
 Devery, P. J., BSc DipTCP (Phys. G.) Sr. Lectr.  
 Langford-Smith, T., BA *Melb.*, MSc *Adel.*,  
 BSc (Phys. G.) Sr. Lectr.  
 Mathieson, R. S., BSc(Econ) *Lond.*,  
 MA *Wash.* (on leave) Lectr.  
 Logan, M. I., BA DipEd Lectr.  
 Jeans, D. N., BA PhD *Lond.* Lectr.  
 Rutherford, J., PhD *A.N.U.*, BA Lectr.

### Geology and Geophysics

Marshall, C. E., DSc *Birm.*, PhD *Durh.*, FGS  
 (on leave) David Prof. of Geol., Hovell  
 Lectr.  
 Dulhunty, J. A., DSc Reader  
 Vallance, T. G., PhD BSc (on leave) Sr. Lectr.  
 Glasson, K. R., MSc Sr. Lectr.  
 Quodling, Florrie M., BSc Sr. Lectr.  
 Day, A. A., PhD *Camb.*, BSc Sr. Lectr.  
 Packham, G. H., PhD BSc Lectr.  
 Wilshire, H. G., BA *Oklahoma*, PhD *Calif.* Lectr.  
 Phipps, C. V. G., PhD *Tor.*, BSc Lectr.  
 Jenkins, T. B. H., PhD BSc *Wales* Lectr.  
 Branagan, D. F., MSc Lectr.  
 Tompkins, D. K., MSc Coal Res. Officer  
 Mahoney, J. A., BSc Curator of Collections

### German

Farrell, R. B., DrPhil *Berl.*, MA McCaughey Prof.  
 McGlashan, L. R. P., DrPhil *Mun.*, BA Sr. Lectr.  
 Ryan, L. J., DrPhil *Tubingen*, BA Lectr.

### Greek

Shipp, G. P., MA *Camb.*, BA DLitt Prof.  
 Treweek, A. P., PhD *Lond.*, BA Sr. Lectr.  
 Quincey, J. H., MA *Oxon.* Sr. Lectr.  
 Ritchie, W., MA PhD *Camb.*, BA  
 (on leave) Lectr.

### History

Ward, J. M., MA LLB Challis Prof.  
 McManners, J., MA *Oxon.*, DipTheol *Durh.*  
 Prof.  
 Jacobs, Marjorie G., MA Sr. Lectr.  
 Bramsted, E., PhD *Lond.*, DrPhil *Berl.* Sr. Lectr.  
 Shaw, A. G. L., MA *Oxon.*, BA *Melb.* Sr. Lectr.  
 Mansfield, B. E., MA Sr. Lectr.  
 Evans, D. G., BA *Wales & Lond.*  
 (Anc. H.) Sr. Lectr.  
 Judge, E. A., MA *Camb. & N.Z.*  
 (Anc. H.) Sr. Lectr.  
 Reese, T. R., BA *Sheff.*, PhD *Lond.* Sr. Lectr.  
 MacCallum, D. M., BA Lectr.  
 Cable, K. J., MA *Camb. & Syd.* Lectr.  
 Stephen, J. F. M. D., MLitt *Camb.*, BA Lectr.  
 Nish, I. H., MA *Edin. & Lond.* Lectr.  
 Sinclair, R. K., MA *Camb.*, BA DipEd  
 (Anc. H.) Lectr.  
 Stambrook, F. G., BA *Oxon.*,  
 BSc(Econ) *Lond.* Lectr.

Rose, R. B., MA *Manc.*  
Mitchell, T. J., BA *Adel.*

Lectr.  
Sr. Tutor

Tebbutt, H. W., BA LLB  
(Conveyancing) Challis Lectr.  
St. John, E. H., QC, BA LLB  
(Legal Interp.) Challis Lectr.  
Conacher, R. D., LLB  
(Equity Proced.) Challis Lectr.

### Indonesian and Malayan Studies

van Naerssen, F. H., DrPh&Litt *Ley.* Reader  
Hill, A. H., MA DPhil BSc *Oxon.* Lectr.

### Italian

Shaw, R. A., MA *Melb.* Sr. Lectr.-in-Charge  
Politi, V., DottLett *Turin* Lectr.

### Latin

Dunston, A. J., BA R'dg., MA *Camb.* Prof.  
Nicholls, J. J., MA *Camb.*, BA Sr. Lectr.  
Duhigg, J., MA *Camb.*, BA Sr. Lectr.  
Lonie, I. M., BA *Camb.* & *N.Z.* Lectr.  
Begbie, Cynthia M., MA DipEd (on leave) Lectr.  
Jocelyn, H. D., BA *Camb.* & *Syd.* Lectr.

### Law

Shatwell, K. O., MA BCL *Oxon.* Challis Prof.  
Stone, J., BA DCL *Oxon.*, LL.M. *Leeds*,  
SJD *Harv.*

(Internat. L. & Jurispr.) Challis Prof.  
Benjafield, D. G., DPhil *Oxon.*, LLB Prof.  
Morison, W. L., DPhil *Oxon.*, BA LLB Prof.  
Parsons, R. W., BA LLB

(Comm. L.) Assoc. Prof.  
Thomson, D. C., BA LLB *W.Aust.*  
(also Hyman lectr. in Indust. L.) Sr.  
Lectr.

Hlffe, J. A., MA BCL *Oxon.* (on leave) Sr. Lectr.  
Tammelo, I., DrJur *Marburg*, Maglur *Tartu*,  
MA *Melb.*

(Internat. L. & Jurispr.) Sr. Lectr.  
MacDougall, D. J., JD *Chic.*, LLB *Melb.*  
Sr. Lectr.

Roulston, R. P., LL.M. *Tas.*, LLB Sr. Lectr.  
Bentham, R. W., BA LLB *Dub.* Lectr.  
Lanc, P. H., BA LLB Lectr.  
Campbell, Enid M., PhD *Duke*, LLB  
BEC *Tas.* Lectr.

### †Lecturers

Treath, V. H., MM, QC, MA BCL *Oxon.*,  
BA (Crim. L.) Challis Lectr.  
Currey, C. H., MA LL.D. (Const. L.)  
Barracrough, F. E., MA LLB (Lunacy)  
Hutley, F. C., BA LLB

(Successn. & Admiralty)  
Teece, R. C., QC, MA LLB

(Legal Ethics) Perry Lectr.  
Jacobs, K. S., BA LLB (Equity) Lectr.  
Rath, A. F., BA LLB (Pleading) Challis Lectr.  
Bridge, A. B. K. I., QC, LLB  
(Proced.) Challis Lectr.

Selby, D. M., BA LLB  
(Divorce & Domestic Relations) Challis  
Lectr.

Riley, B. B. (Bankruptcy) Challis Lectr.  
Badham, L. C., QC (Evidence) Challis Lectr.  
Hope, R. M., LLB (Property) Lectr.  
Needham, G. D., BA LLB (Const. L.) Lectr.

### Mathematical Statistics

Lancaster, H. O., BA PhD MB BS Prof.  
Mulhall, H., PhD *Camb.*, BSc Sr. Lectr.  
Bofinger, Mrs. Eveline, BSc Lectr.

### Mathematics

Room, T. G., ScD *Camb.*, FAA, FRS  
(Pure M.) Prof.  
Bullen, K. E., ScD PhD *Camb.*, MA *N.Z.* &  
*Melb.*, BSc *N.Z.*, FRS, FAA  
(Appl. M.) Prof.  
..... (Appl. M.) Reader

### Senior Lecturers

Smith-White, W. B., MA *Camb.*, BSc (Pure M.)  
Wall, G. E., PhD *Camb.*, BSc *Adel.* (Pure M.)  
Fletcher, G. C., PhD BSc *Lond.* (Appl. M.)  
Williamus, J. L., MA *Camb.*, MSc (Pure M.)

### Lecturers

Bolt, B. A., PhD MSc DipEd (Appl. M.)  
Kelly, G. M., BA PhD *Camb.*, BSc (Pure M.)  
Wilson, P. R., BA MSc *Melb.* (Appl. M.)  
Smith, R. J., PhD *Tennessee*, MSc (Pure M.)  
Butcher, J. C., MSc *N.Z.* (Appl. M.)

### Sr. Tutor-Demrs.

Ritter, M., BSc *Q'ld.* (Appl. M.)  
Kaagj  r, L., MSc (Appl. M.)

### Sr. Tutor

Hammer, J. A., Dipl *E.L.Bud.* (Pure M.)

### Medicine, see below

### Mining, see Engineering, below

### Music

Peart, D. R., MA BMus *Oxon.*, FRCM Prof.  
Harris, S. J. M., BA BMus *Oxon.* Lectr.  
Steele, H. J., MA *N.Z.*, PhD *Camb.* Lectr.  
Gross, E., MA *Aberd.* Lectr.

### Oriental Studies

Davis, A. R., MA *Camb.* (on leave) Prof.  
McKillop, B. C., MA *Camb.*, BA Sr. Lectr.  
Liu, W. P., BA *Amoy*, MA Lectr.  
Sargent, G. W., BA PhD *Camb.* Lectr.  
Frodsham, J. D., MA *Camb.* Lectr.

### Pharmacology

Thorp, R. H., PhD BSc *Lond.* Prof.  
Johnson, E. A., MD ChB *Sheff.* Sr. Lectr.  
Cobbin, L. B., BSc *Melb.*, PhD (on leave) Lectr.

**Pharmacy**

Wright, S. E., MSc *Q'ld.*, PhD DipPharm  
(Pharmaceut. Chem.) Prof.  
Watson, T. R., MSc *N.Z.*, PhD Sr. Lectr.  
Large, Dorothy K., BSc DipPharm Lectr.  
Brown, B. T., PhD MSc Lectr.

**Philosophy**

Stout, A. K., MA *Oxon.* Prof.  
Mackie, J. L., MA *Oxon.*, BA  
(on leave) Challis Prof.  
Walker, Alice R., BA Sr. Lectr.  
Rose, T. A., MA Sr. Lectr.  
Monro, D. H., MA *N.Z.* Sr. Lectr.  
Baker, A. J., BPhil *Oxon.*, BA Sr.  
Roxon, E., BA  
McCallum, D. M., MA BPhil *Oxon.*, BA  
(on leave) Lectr.  
Bonney, W. L., BA BPhil *Oxon.*, MA *Tas.* Lectr.  
Stove, D. C., BA Lectr.  
Gimane, W. J., MA *Melb.* Lectr.  
Khamara, E. J., BA *Lond.* Lectr.  
Bradley, M. C., MA *Adel.* Lectr.

**Physical Education**

Le Maistre, E. H., EdD *Calif.*, MEd  
BS *Springfield* Lectr.-in-Charge  
Swain, Marjorie O. B., BA Lectr.

**Physics**

Messel, H., PhD *N.U.I.*, BA BSc *Qu.*  
Prof., Hld. of Sch.  
Butler, S. T., PhD *Birm.*, MSc *Adel.*  
(Theoret. P.) Prof.  
Watson-Munro, C. N., OBE, MSc *N.Z.*,  
FIP (Thermo-nuclear P.) Prof.  
Love, W. H., PhD *Camb.*, BSc  
Dir., 1st & 2nd Yr. Courses  
Makinson, R. F. B., PhD *Camb.*, BSc Reader  
McCusker, C. B. A., MSc *Mane.* Reader  
Fraser, M., MA DPhil *Oxon.* Sr. Lectr.  
Builder, G., DSc PhD *Lond.*, BSc *W.Aust.*,  
FIP Sr. Lectr.  
Rathgeber, H. D., Ding *T.H.Stuttgart*  
Sr. Lectr.  
Ma, S. T., PhD *Camb.*, BSc *Peking* Sr. Lectr.  
Guest, P. G., PhD MSc Sr. Lectr.  
Twiss, R. Q., MA *Camb.*, ScD *M.I.T.* Sr. Lectr.  
Millar, D. D., PhD *Dub.*, BSc *St.And.* Sr. Lectr.  
Winn, M. M., PhD *Birm.*, MSc Lectr.  
Buckingham, M. J., PhD *Liv.*, MSc Lectr.  
Wallace, C. S., BSc PhD (on leave) Lectr.  
Biennan, M. H., PhD BSc Lectr.  
Nicol, Phyllis M., MSc Tutor-Demr.

**Physiology**

Bishop, P. O., MB BS Prof.  
..... Assoc. Prof.  
Lawrence, W. J., MSc Sr. Lectr.  
Burke, W., BSc PhD *Lond.* Sr. Lectr.  
Taylor, M. G., MD BS *Adel.* Sr. Lectr.

Hayhow, W. R., MB BS  
Everitt, A. V., PhD BSc

Sr. Lectr.  
Lectr.

**Psychology**

O'Neil, W. M., MA DipEd McCaughey Prof.  
Hammer, A. G., MA  
(Abnormal & Clin. P.) Assoc. Prof.  
Champion, R. A., MA *Iowa*, BA Sr. Lectr.  
Sutcliffe, J. P., MA PhD Sr. Lectr.  
Radcliffe, J. A., BA Sr. Lectr.  
Day, R. H., PhD *Brist.*, BSc *W.Aust.*  
(on leave) Sr. Lectr.  
Pollack, R. H., MA PhD *Clark*, BS *Coll.of*  
*CityofN.Y.* (on leave) Lectr.  
Earle, A. E., MA *Camb.* Lectr.  
Mazc, J. R., MA Lectr.  
Gray, K. C., BA DipEd Lectr.  
Mortimer, Yvonne S., BA *Brist.*, PhD *Lond.* Lectr.

**Semitic Studies**

MacLaurin, E. C. B., MA *Camb.*, BA BD Lectr.

**Social Work**

Brennan, T., MA *Camb.* Dir.  
Parker, Norma, MA *W.Aust.*, DipSocSci *Wash.*  
Supervisor of Professional Trg.  
Battle, Betty, BS *Col.*, DipPhysEd *Melb.*  
Supervisor of Group Work  
McLelland, Mary S., AM *Chic.*, BA *Q'ld.*,  
DipSocStud (Soc. Case Work) Lectr.  
Ogilvie, F. Katherine, MBE, BA  
(Med. Soc. Work) Lectr.  
Murray, R. E., MB BSc DPH DTM †Lectr.  
Langley, Doreen, BSc DipDiet *Melb.* †Lectr.  
Grutzner, Margaret E., BA DipSocStud *Melb.*  
(Psychiatric Case Work) †Lectr.  
Trethowan, W. H., MA MB BChir *Camb.*,  
DPM *Lond.* †Lectr.  
Kheen, J. D., AM *Stan.*, PhD BSc *Lond.* †Lectr.  
Sands, J. R., MB BS, MRACP †Lectr.

**Veterinary Science**

Carne, H. R., DVSc  
(V. Pathol. & Bacteriol.) Hughes Prof.  
Emmens, C. W., DSc PhD *Lond.*, FAA  
(V. Physiol.) Prof.  
McFarlane, D., BSc *Glas.* (V. Med.) Prof.  
Whittlestone, W. G., DSc *N.Z.*  
(Dairy Husb.) Reader  
Senior Lecturers  
Webb, R. M., BVSc (V. Anat.)  
Bain, R. V. S., MSc *Adel.*, BVSc  
(V. Pathol. & Bacteriol.)  
Steel, J. D., BVSc (V. Med.)  
Larsen, L. H., MS *Colorado*, BVSc  
(V. Surg. & Obstet.)  
Claringbold, P. J., PhD BVSc (V. Physiol.)  
White, I. G., PhD BSc (V. Physiol.)  
Loomis, L. N., DVM MS *Mich.*  
(V. Pathol. & Bacteriol.)  
Lecturers  
Osborne, Virginia E., BVSc (V. Anat.)

Lawrence, W. E., BVSc  
(V. Pathol. & Bacteriol.)  
Wales, R. G., BVSc (V. Physiol.)  
Gordon, H. M., BVSc (V. Parasitol.)†  
Keep, J. M., BVSc Supt., Vet. Hosp.  
Hutchins, D. R., BVSc  
Supt., Rural V. Centre, Camden  
Johnston, K. G., DipBact Lond., BVSc  
(Clin. V. Pathologist)

### Zoology

Birch, L. C., DSc Adel., BAgSc Melb.  
Challis Prof.  
Woodhill, A. R., DScAgr  
(Entomol.) McCaughey Reader  
Colefax, A. N., BSc Sr. Lectr.  
Stephenson, N. G., PhD Lond., MSc N.Z.  
(on leave) Sr. Lectr.  
Dawbin, W. H. I., MSc N.Z. Sr. Lectr.  
Salter, K. E. W., BSc (Entomol.) Lectr.  
Simons, J. R., PhD Lond., MSc Lectr.  
Anderson, D. T., PhD BSc Lond. Lectr.  
Racek, A. A., DrRerNat Masaryk Lectr.  
Reisner, A. H., AB Stan., PhD Indiana Lectr.  
Meyer, G. R., PhD Lond., BA MEd BSc  
DipEd Lectr.

## DENTISTRY

### Ceramics

Grainger, W. A., MDS †Lectr.

### Dental Anatomy and Dental Histology

Gabriel, A. C., DDSc Sr. Lectr.

### Dental Bacteriology

Goldsworthy, N. E., PhD DPH DTM&H  
Camb., MB ChM †Lectr.

### Dental Histology

Griffin, C. J., DDSc Sr. Lectr.

### Dental Jurisprudence

Ash, W. P., BA LLB †Lectr.

### Dental Materia Medica and Therapeutics

Crane, L. G., DDSc †Lectr.

### Dental Pathology

Cameron, D. A., MDS Assoc. Prof.

### Dentistry

Jolly, M., MDS Sr. Lectr.

### Operative Dentistry

Arnott, A. J., DDSc, FDSRCS, FACD  
McCaughey Prof.  
Lyell, J. S., MDS Assoc. Prof.  
Bull, A. W., DDS Northwestern, BDS Sr. Lectr.  
Wing, G., MDS Lectr.

### Orthodontia

Henry, R. G., MDS †Lectr.

### Periodontia

Kirkpatrick, R. M., DDSc †Lectr.

### Preventive Dentistry

Martin, N. D., MDS Assoc. Prof.  
Godfrey, K., MDS Sr. Lectr.

### Prosthetic Dentistry

Graham, C. H., DDS Northwestern, MDS  
Assoc. Prof.  
Wilson, J. H., DDSc  
(also Partial D. Construcn.) †Lectr.  
Allcock, B. H., MDS Lectr.  
Bevan, E. M., MDS Lectr.

## DIVINITY

### Ecclesiastical History

Arnott, Rev. F. R., MA Oxon., ThD A.C.T.  
†Hd. of Dept.

### New Testament Language and Literature

Brown, Rev. J. II., MA BD PhD Glas.  
†Hd. of Dept.

### Old Testament Language and Literature

MacLaurin, E. C. B., MA Camb., BA BD  
†Hd. of Dept.

### Philosophical and Historical Theology

Hayward, Rev. S. R. B., MA Camb.  
†Hd. of Dept.

## ENGINEERING

### Aeronautical Engineering

Wittrick, W. H., MA Camb., PhD, FAA  
Lawrence Hargrave Prof.  
Mahony, J. J., PhD Manc., BA BSc Melb.  
Sr. Lectr.  
Davies, G. A. O., BEng Liv. Lectr.  
Bird, G. A., BSc ME Lectr.

### Chemical Engineering

Hunter, T. G., DSc PhD Birm., FRACI Prof.  
Wood, T., MSc Birm., PhD (on leave) Sr. Lectr.  
Prince, R. G. H., BSc BE(Chem) N.Z.,  
PhD Sr. Lectr.  
Parker, H. H. S., BSc Lectr.  
Ellis, J. N., BE Lectr.  
McManamey, W. J., PhD ME Lectr.  
..... Lectr.  
Coillet, D. W., MSc Melb. Lectr.

**Civil Engineering**

Roderick, J. W., MA *Camb.*, MSc PhD *Brist.*,  
MIEAust, FAA Challis Prof.  
Aston, R. L., MSc PhD *Camb.*, BSc BE,  
MIEAust  
(Geodesy & Surveying) Assoc. Prof.  
Potter, O. S., BSc BE Sr. Lectr.  
Davis, E. H., BSc(Eng) *Lond.* Sr. Lectr.  
Campbell-Allen, D., MA *Camb.* Sr. Lectr.  
Watkins, R. D., PhD *Aberd.*, BE *Q'ld.* Sr. Lectr.  
Hawkins, C. A., BE, MIEAust (Road E.) †Lectr.  
Rawlings, B., BSc MEngSc (on leave) Lectr.  
Stewardson, P. B., BSc *Durh.* Lectr.  
Dunlop, N. M., BE  
(Water Supply & Sewerage) †Lectr.  
Harrison, H. B., MEngSc BSc Lectr.  
Raymond, G. P., BSc(Eng) *Lond.*,  
MSE *Prin.* Lectr.  
Vickery, B. J., MEngSc Lectr.  
Low, M. W., BE *Q'ld.* Lectr.

**Electrical Engineering**

Christiansen, W. N., DSc *Melb.*, FIP,  
FAA (on leave) Russell Prof.  
Aitchison, R. E., MSc, FIP, MIEAust  
(Communication E.) Assoc. Prof.  
Doe, A. G., BSc BE Sr. Lectr.  
Robinson, R. B., BSc BE Sr. Lectr.  
Murray, C. T., BSc BE Sr. Lectr.  
Messerle, H. K., MEngSc *Melb.*, PhD  
Sr. Lectr.  
Mackerras, A. P., BE, MIEAust Sr. Lectr.  
Evans, F. J., BSc BE Sr. Lectr.  
George, D. W., BSc BE Sr. Lectr.  
Docherty, I. S., BSc Lectr.  
Wong, D. G., MEngSc BSc Lectr.  
Pike, D. B., BSc BE Lectr.  
Munro, G. H., DSc *N.Z.*, FIP Hon. Lectr.

**Mechanical Engineering**

Fink, P. T., BE Russell Prof.  
Hart, K. R. M., BSc ME Sr. Lectr.  
Vonwiller, G. B., BSc BE  
(E. Des. & Drawing) Sr. Lectr.  
Axelrad, D. R., DiplIng *Vienna* Sr. Lectr.  
Peterson, V. R., BA BSc BE BEc Lectr.  
Boonisma, M., Ing *Amst.* (Mech. E. Des.) Lectr.  
Bayley, H. G., BE Lectr.  
Sherwood, A. A., BSc(Eng) *Lond.* Lectr.  
Halliday, R. F., BA BE Lectr.

**Mining Engineering**

Hargraves, A. J., BME *Melb.* Temp. Sr. Lectr.  
Russell Lectr.

**MEDICINE**

(for subjects of first 2 yrs.—  
Anat., etc., see above)

**Anæsthetics**

Shea, L. T., MB BS DA †Lectr., Tutor  
Dwyer, B. E., MB BS, FFARCS †Clin. Lectr.  
Jobson, P. L., MB BS DA †Clin. Lectr.

McCulloch, J. F., MB ChM DA, FRACP,  
FFARCS †Asst. Clin. Lectr.  
Paton, C. N., MB ChM DA, FFARCS  
†Asst. Clin. Lectr.  
Radcliff, J. R., MB BS, FRIC, FRACI  
†Asst. Clin. Lectr.  
Joseph, D., MB BS, FFARCS †Tutor  
Speirs, R. B., MB BS DA †Tutor  
Bowen, J. M. C., MB BS DA †Tutor  
Hodge, A. H., MB BS DA †Tutor  
Shaw, W. R. M., MB BS DA †Tutor  
Gunner, B. W., MB BS DA, †Tutor

**Bacteriology**

de Burgh, P. M., MB BS Bosch Prof.  
Charlton, G., MDS Sr. Lectr.  
Fame, S., DPhil *Oxon.*,  
MD ChB BMedSc *N.Z.* Sr. Lectr.

**Child Health**

Stapleton, T., MA DM BCh *Oxon.* Prof.  
Clements, F. W. A., MD BS DTM DPH  
Sr. Lectr.

**Diseases of Ear, Nose, Throat**

Halliday, G. C., MB ChM, FRCSEd,  
FRACS †Lectr.

**Diseases of the Skin**

Belisario, J. C., CBE, ED, MD ChM DDM  
†Lectr.

**Embryology, see Histol.****Gynæcology**

Stening, G. G. L., ED, MB BS, FRCSEd,  
FRCOG, FRACS †Clin. Lectr.  
Chenhall, F. N., MB BS, FRCS, FRACS  
†Clin. Lectr.  
Duggan, A. R. H., MB ChM, FRACS  
†Clin. Lectr.  
Studdy, A. S. B., MB ChM †Clin. Lectr.  
McGarrity, K. A., ED, MB BS, FRCOG  
†Clin. Lectr.  
Stening, M. J. L., VD, MD BS, FRCS,  
FRACS †Asst. Clin. Lectr.  
Moon, A. A., MBE, MB ChM, FRCSEd,  
FRCOG, FRACS †Asst. Clin. Lectr.  
Jasper, W. G., MB BS †Asst. Clin. Lectr.  
Loxton, J. C., MB BS, FRCSEd, FRACS  
†Tutor  
Kennedy, M. M., MB BS, FRCSEd,  
FACS †Tutor  
Mulvey, Margaret, MB BS †Tutor  
Knox, J. W., MB BS, FRCSEd, FRACS †Tutor

**Histology and Embryology**

Cleland, K. W., MB BS Bosch Prof.  
van Lennep, E. W., NatPhilDrs *Utrecht*  
Sr. Lectr.  
Sapsford, C. S., BVSc Sr. Lectr.

Griffin, C. J., DDSc (Dent. H. & E.) Sr. Lectr.  
 O'Brien, B. R. A., PhD BSc Lectr.  
 Sullivan, G. E., MSc N.Z., PhD Lectr.

### Infectious Diseases

Symington, N. J., MB ChM †Lectr.

### Medical Ethics

Hunter, J. G., CMG, MB ChM BSc †Lectr.

### Medical Jurisprudence

Percy, C. E., MB ChM †Lectr.

### Medicine

Blackburn, C. R. B., MD BS, FRCP, FRACP Prof.  
 Read, J. R., MD BS, MRACP Sr. Lectr.  
 Piper, D. W., MB BS, MRACP Sr. Lectr.  
 Morrow, Sir William, DSO, ED, MB BS, FRCP, FRACP (Therapeutics) †Lectr.  
 Harrison, K. S., MB BS DTM, FRACP (Therapeutics) †Lectr.  
 Brown, K. S. M., MB ChM (Hist. of M.) †Lectr.

#### †Clinical Lecturers

Brodziak, I. A., MB BS, FRACP  
 Greenaway, T. M., MB ChM, FRCP, FRACP  
 Fisher, W. E., MD ChM, FRACP  
 Markell, P. J., MB ChM, MRACP  
 Hall, G. V., MB BS, MRACP  
 Stapleton, T., MA DM BCh Oxon.

#### †Assistant Clinical Lecturers

Bye, W. A., OBE, MB ChM, FRACP  
 Maddox, J. K., VD, MD ChM, FRCP, FRACP  
 Spark, T. E. H., MB BS, FRACP  
 Deakin, J. H., MB BS, MRACP  
 Wilson, F. H. H., MB BSc, FRACP  
 Isbister, J., MB BS, FRACP

#### †Tutors

Harrison, K. S., MB BS DTM, FRACP  
 Haynes, B. G., MB BS  
 Pullett, R. D., MB BS, FRACP  
 Ritchie, F. L., MB BS, FRCPed, MRACP  
 McDonald, G. L., BA MB BS, MRACP  
 Deakin, J. H., MB BS, MRACP  
 Read, F. H., MB BS, MRACP  
 Eakin, R. I., MB BS, MRACP  
 Curtin, B. A. D., MB BS, MRACP  
 Robertson, T. I., MB BS, MRACP  
 Raftos, J., MB BS, MRACP  
 Stuckey, D. S., MD BS, FRACP  
 Allsop, J. L., MB BS, MRACP  
 Sands, J. R., MB BS, MRACP  
 Billington, B. P., MB BS, MRACP  
 Dalton, W. R., MB BS, MRACP  
 Burns, F. H., MB BS, MRACP  
 Harvey, H. P. B., MB BS, MRACP  
 Richards, J. G., MB BS, MRACP  
 Epps, R. G., MB BS BSc  
 Bauer, G. E., MB BS, MRACP  
 Lance, J. W., MD BS, MRACP  
 Hickie, J. B., MB BS, MRACP

Collins, I. S., MB BS, MRACP  
 Sibree, E. W., MD BS  
 Hurt, B. R. M., MB BS, MRACP  
 Greenaway, J. M., MB BS, MRACP  
 Hassall, J. E., MB BS, MRACP  
 Jefferis, J. E., MB BS, MRACP  
 Packard, R. S., MB BS, MRACP  
 Wolfenden, W. H., MB BS, MRACP  
 Dowd, B. T., MB BS, MRACP  
 Tink, A. R., MB BS, MRACP  
 Vines, R. H., MB BS Syd., MRACP

### Newborn, Care of

Winning, Kathleen M., MB ChM †Lectr.  
 Stening, S. E. L., DSC, MB BS, FRACP †Lectr.  
 Isbister, Mrs. Clair, MB BS, FRACP †Lectr.  
 Bellmaine, S. P., MB BS, FRACP †Lectr.

### Obstetrics

Mayes, B. T., MVO, MB BS, FRCSEd, FRACS, FRCOG Prof.  
 Shearman, R. P., MB BS DGO Assoc. Prof.  
 Reid, B. L., MB BS BVSc DTM&H Sr. Lectr.  
 Booth, E. A., MB BS DDR  
 (Radiol. in Obstet.) †Lectr.  
 Heseltine, Mary J., MB BS *Melb.*, FRACP  
 (Bacteriol. & Pathol. in Obstet.) †Lectr.

#### †Clinical Lecturers

Cunningham, W. D., MB BS, FRCOG  
 Moon, A. A., MBE, MB ChM, FRCSEd, FRCOG, FRACS  
 Stevenson, R. B. C., MB ChM, FRCOG  
 Richardson, K. S., MB BS DGO, FRACS

#### †Assistant Clinical Lecturers

Hobson, A. F., OBE, MB BS, FRCSEd, FRCOG, FRACS  
 Jasper, W. G., MB BS  
 Macdonald, R. H., OBE, MB MS, FRACS  
 Meares, S. D., MB BS, FRCSEd, FRCOG, FRACS  
 Bellingham, F. A., MB BS, FRCOG  
 Grant, A. M. B., LM *Dub.*, MB BS, FRCSEd  
 Syred, R. H., MB BS DGO, MRCOG  
 Drummond, M. T., MB BS

#### †Tutors

Cope, T. I., MD BS, FRCS, FRACS  
 Benson, Lois E., MB BS DGO  
 Holman, E. D., MB BS  
 Cummins, G. E., MB BS  
 Young, G. N., ED, MB BS, FRACS  
 Garrett, W. J., DPhil *Oxon.*, MB BS, FRCSEd  
 Scheumack, D. R., MB BS  
 McGarrity, K. A., ED, MB BS, FRCOG

### Ophthalmology

Armstrong, K. B., MB BS, FRACS †Lectr.

### Pathology

Magarey, F. R., MD BS *Adel.*, FRACP Prof.  
 Cameron, D. A., MDS (Dental P.) Assoc. Prof.



Finckh, E. S., MB BS DCP Sr. Lectr.  
 Smith, K. V., MB BS *Adel.*, MRACP Sr. Lectr.  
 Stehbins, W. E., MB BS Sr. Lectr.  
 Cox, R. W., DPhil *Oxon.*, MD ChB *N.Z.* Sr. Lectr.

### Preventive Medicine

Ford, Sir Edward, OBE, MD BS *Melb.*,  
 DPH *Lond.*, DTM, FRCP, FRACP Prof.  
 Murray, R. E., MB BSc DTM DPH Sr. Lectr.  
 Scott, G. C., MB BS DPH Lectr.

### †Honorary Lecturers

Park, C. L., MD BCh DPH *Melb.*  
 Southwood, A. R., CMG, ED, MD MS *Adel.*,  
 FRACP  
 Fryberg, A., MBE, MB BS *Melb.*, DPH DTM  
 Henzell, L., MD BS DPH *Lond.*  
 George, W. E., MB ChM, FRACP  
 Heydon, G. A. M., MC, DPH DTM&H *Camb.*,  
 BA MB ChM, FRACP  
 Fairley, Sir Neil Hamilton, KBE, MD DSc  
 Hon. LLD *Melb.*, Hon. DSc, FRCP,  
 FRCPed, FRACP, FRS  
 Cruickshank, J. M., CMG, OBE, MD CM  
 DPH *McG.*, DTM *Lond.*, FACP, FACS  
 McIntosh, A. M., BA MB ChM, FRACS  
 Wunderly, Sir Harry, MD *Melb.*, FRCP,  
 FRACP

### Psychiatry

Trethowan, W. H., MA MB BCh *Camb.*,  
 DPM *Lond.* Prof.  
 Maddison, D. C., MB BS DPM, MRACP Sr. Lectr.  
 Grutzner, Margaret E., BA DipSocStud  
*Melb.* (Psychiatric Soc. Work) Lectr.

### Surgery

Loewenthal, J. L., MS *Melb.*, MB BS, FRCS,  
 FRACS Prof.  
 Bolliger, A., DrPhil *Basle*, DSc  
 (Exper. S.) Reader, Res. Dir. of Gordon  
 Craig Urol. Res. Labs.  
 Milton, G. W., MB BS *Adel.*, FRCS, Assoc. Prof.  
 FRACS  
 Mackenzie, D. C., MB BS, FRCS Sr. Lectr.  
 Halliday, J. P., MB BS, FRCS Sr. Lectr.  
 Wyndham, N. R., MD MS, FRCS, FRACS  
 †Lectr. & Tutor to dent. students

### †Clinical Lecturers

Goulston, E. H., MB BS, FRCSI, FRACS  
 Wyndham, N. R., MD MS, FRCS, FRACS  
 McGrath, W. S., MB BS, FRCS, FRACS  
 Steigrad, J., CBE, ED, MB ChM, FRACS  
 Findlay, A. P., MB ChM

### †Assistant Clinical Lecturers

Loewenthal, L. S., MB ChM, FRACS  
 Lovell, S. H., ED, MB MS, FRACS  
 Malcolm, R. J. W., MB ChM, FRCS, FRACS  
 Johnson, A. S., MB MS, FRACS  
 Cumberland, V. H., MB BS, FRCS, FRACS  
 Fagan, K. J., MB MS, FRACS  
 Tracy, G. D., MB, FRCS

### †Tutors

Barling, E. V., MBE, MB BS, FRCS, FRACS  
 Yeates, J. M., MB, FRCS, FRACS  
 Langley, E. F., MB BS *Melb.*, FRCS  
 Wilson, T. E., MD MS MSc *Melb.*, FACS,  
 FRCS, FRCSEd, FRACS, MRACP  
 Melville, R. P., MB BS, FRCS, FRACS  
 Alexander, M. S., OBE, MB MS, FRACS  
 Pullen, W. J., MB MS, FRCS, FRACS  
 Spence, J. W., MB BS, FRCS, FRACS  
 Fleming, J. P., MB MS, FRCS, FACS, FRACS  
 Newton, N. C., MB MS, FRCS, FRACS  
 Fowler, N. A., MB BS, FRCS, FRACS  
 Goldie, J. E. D., MB BS, FRCS, FRACS  
 Opie, R. C., MB MS, FRACS  
 Tomlinson, P. A., OBE, MB MS, FRACS  
 Sharp, A. C. R., MB BS, FRCS, FRACS  
 Greenwell, P. H., MB BS, FRCS, FRACS  
 Condon, R. D., MB MS, FRCS, FRACS  
 Keller, W. L. H., MB MS DA, FRACS  
 Jones, K. S., MB BS, FRCSEd, FRACS  
 Lake, M. E., MB BS, FRCS, FRCSEd  
 Cortis, E. M., MB BS, FRCS, FRACS  
 Colman, J. V. L., MB BS, FRCS  
 Failes, D. G., MB BS, FRCS, FRACS  
 Hughes, J. D., MB BS, FRCS  
 Schneider, O. H., MB BS, FRCS, FRACS  
 Indyk, J. S., MB BS, FRCS, FRACS  
 Cohen, D. H., MB MS, FRACS  
 Bowring, A. C., MB BS, FRCS, FRCSEd  
 Hudson, R. S. B., MB BS, FRCS, FRACS

### Tropical Medicine

..... Prof.  
 Black, R. H., MD BS *Syd.*, DTM&H *Liv.* Sr. Lectr.

### SPECIAL LECTURESHIP

Herring, Thelma G., MA *Oxon.* & *Syd.*  
 (Aust. Lit.)

### TUTORIAL CLASSES

Wilson, J. L. J., BA *N.Z.* Dir.  
 Higgins, E. M., BA *Melb.* Asst. Dir.  
 10 Full-time Tutors, 124 Tutorial Class Lectrs.

## ADMINISTRATIVE AND OTHER STAFF

Accountant : J. C. Bongers, FASA. Information  
 Officer : A. A. Gamble, FRAIA. Dep.  
 Registrar : H. G. McCredie, LLB. Asst. Regis-  
 trars : .....; M. Nell McKenzie, BA (Asst.  
 Registrar in charge of Exams.); S. Weir Wilson,

BEC; D. R. V. Wood, BEC; R. B. Fisher, MA *N.Z.*  
 Asst. Accountant : C. A. McClenahan, BEC. Sr.  
 Admin. Officer : K. R. McInness, BEC DipTCP.  
 Assoc. Librarian : Beatrice P. Wines, BA. Asst.  
 Librarians : Marjorie M. Thompson, BEC (in

charge of Cataloguing); Jean P. Whyte, BA *Adel.*, AM *Chic.* (in charge of Public Services); . . . . . (in charge of Acquisitions). Archivist: D. S. Macmillan, MA *Glas.* (on leave). Dir. of Student Health Services: T. D. Wilkins, MB BS. Dir. of Student Advisory Services: S. W. Cohen, PhD *Lond.*, MA. Adviser to Men Students: G. Y. D. Scarlett, BA. Adviser to Women Students:

Agnes M. A. Scobie, BA. Officer of Works: R. J. Brickhill, BE BEc Dip'TCP. Architect Planner: W. V. Abraham, BArch Dip'TCP (on leave). Sec. to Appts. Bd.: Isabel D. McKinney, BA. Publications Officer: G. Preston, BA. Actg. Sec. to Extension Bd.: D. H. Monro, MA N.Z. Housing Officer: Mrs. Doris Whalan.

## COLLEGES WITHIN THE UNIVERSITY

ST. ANDREW'S COLLEGE (Presb.), Newtown, Sydney (tel.: LA1087). For men. Principal—Rev. A. A. Dougan, BA. Vice-Principal—Prof. R. N. Spann, MA *Oxon.* 8 Fellows and 18 Tutors.

ST. JOHN'S COLLEGE (R.C.), Camperdown, Sydney (tel.: LA1240). For men. Rector—Rev. R. J. Hine. Vice-Rector—Rev. B. J. Burnheim, MA N.U.I., DPhil *Louvain.* 11 other Tutors.

ST. PAUL'S COLLEGE (Anglican), Newtown, Sydney (tel.: LA1447). For men. Warden—Rev. F. R. Arnott, MA *Oxon.*, ThD *A.C.T.* Vice-Warden—K. J. Cable, MA *Camb. & Syd.* Sub-Warden—J. F. Farrar, MB BS, MRACP. 23 other Tutors.

SANCTA SOPHIA COLLEGE (R.C. Women), Camperdown, Sydney (tel.: LA2467). Principal—Rev. Mother Yvonne Swift, LLB *Melb.* Vice-Principal—Mother Mary Shanahan, BA. 14 Tutors.

WESLEY COLLEGE (Methodist), Newtown, Sydney (tel.: LA2024). For men. Master—Rev. B. R. Wyllic, MA *Melb.*, BD *Melb. Div. Coll.* 15 Tutors.

THE WOMEN'S COLLEGE (undenominational), Newtown, Sydney (tel.: LA1195). Principal—Doreen Langley, MBE, BSc DipDiet *Melb.* Vice-Principal—Eva Eden, MA PhD *Camb.* 18 Tutors.

## GENERAL INFORMATION

Founded in 1850, the Univ. of Sydney is the oldest univ. in Australasia. Its devel. has been largely due to private benefactions. The act of incorporation provided for the appt. of a senate of 16 fellows (later increased to 26) and a statutory grant of £A5000. The first provost and vice-provost (later entitled chancellor and vice-chancellor) were elected the following yr., and the first 3 profs. arrived in Sydney from the U.K. in 1852, the yr. of the univ.'s inauguration in the Sydney coll. bldgs. (now occupied by Sydney Grammar Sch.) in College St. These bldgs. proved to be inadequate, and the state govt. made a grant of land at Grose farm on the western boundaries of the city, with provision for subgrants by the senate for 4 colls. and for subsidies towards the coll. bldgs. and the salaries of their hds. The univ. was transferred to this, its present site, in 1857. St. Paul's College (C. of E.) was establd. in 1854. St. John's (R.C.) in 1857. St. Andrew's (presb.) in 1867, the Women's College (undenominational) in 1889, Wesley College (methodist) in 1910 and Sancta Sophia College (R.C. women) in 1929. All were built on univ. land and subsidized on equal terms.

Most of the univ. bldgs. have been provided from public funds. The Great Hall, a replica of Westminster Hall, London, was opened in 1859 and the main bldg. completed the following yr.

The univ. was granted a royal charter in 1858. Women were admitted to membership of the

univ. in 1881 and were given the same rights as men 3 yrs. later.

CONSTITUTION. The body politic and corporate of the Univ. of Sydney consists of a senate constituted of 4 fellows apptd. by the governor, 1 elected by the legislative council, 1 by the legislative assembly, 10 by the grads., 3 by the fellows, 1 the vice-chancellor of the time, 5 rep. of the teaching staff, 1 (a grad.) rep. of the undergrads. The chancellor and deputy-chancellor are elected by the senate from its own members. The chancellor or, in his absence, the deputy-chancellor, presides at all meetings of the senate; if both are absent, a chairman is elected by the fellows. The entire management of the affairs, concerns and property of the univ. is controlled by the senate, which makes the by-laws and regns. subject to approval of the governor, who is the visitor to the univ. No religious test is administered to any person.

There is a professorial board to further and co-ordinate the work of the facs. and depts. and encourage scholarship and res. The faculties are responsible for supervision of teaching and conduct of exams. The proctorial board may, on reference by the vice-chancellor, impose penalties for breach of discipline or misconduct by students.

INCOME (1959): £A3,061,427 (state govt. grants, 45 per cent.; commonwealth govt. grants,

24 per cent.; fees, 26 per cent.; endowments, 2.5 per cent.; other sources, 2.5 per cent.).

**FACULTIES AND DEANS (1960).** *Agric.*, Prof. J. R. A. McMillan; *archit.*, Prof. H. I. Ashworth; *arts*, Prof. A. J. Dunston (Latin); *dent.*, Prof. A. J. Arnott (operative dent.); *econ.*, Prof. S. J. Butlin; *engin.*, Prof. J. W. Roderick (civil engin.); *law*, Prof. K. O. Shatwell; *med.*, Prof. F. R. Magarey (pathol.); *sci.*, Prof. T. G. Room (pure maths.); *vet. sci.*, Prof. H. R. Carne.

**UNIVERSITY PRECINCT.** A prelim. devel. plan has been completed, incorporating proposals for the period 1961-69 for the univ. precinct and an area of about 40 acres nr. the existing grounds which the univ. expects to acquire. Further sites have been purchased in this area, the largest being a 5½-acre site with a substantial bldg. which, it is expected, will become available to the univ. in 1962 and a factory bldg. of 81,000 sq. ft. which is being progressively taken over for univ. service functions.

The **UNIV. LIBRARY**, 567,401 vols., consists of the Fisher libr. and its 3 branches together with 52 depl. libr.: *agric.*, 4147; *archit.*, 9209; *dent.*, 6088; *engin.*, 13,779; *geol.* & *geophys.*, 10,575; *law*, 27,954; *med.*, 22,721; *phys.*, 3414. Associated libr. within univ. grounds, 249,900. Grand total, 817,301 vols. 30,000 vols. are in Chinese and Japanese.

**MUSEUMS.** Nicholson collection of prehistoric, Egyptian, nr. eastern, Cypriot, Greek and Roman antiq.; Macleay nat. hist.; J. T. Wilson human anat.; J. L. Shellshear compar. anat. & phys. anthropol.; Haswell zool.; pathol., obstet., mat. med. War Memorial gallery of fine arts in memory of members of the univ. who fell in World War II.

**LABORATORIES.** *Agric.* (agron., *agric. econ.*, genetics & plant breeding, *agric. microbiol.*, plant pathol. and soil sci.), *anat.*, animal husb., *archit. sci.*, *archit.* (atelier), *bacteriol.*, *biochem.*, *bot.*, *chem.* (inorg., org., physical), *computing* (phys.), *dent.*, *engin.* (aeron., chem., civil, electr., mech. and mining engin. and general hydrodynamics & ship tank), *geog.*, *geol.* & *geophys.*, *histol.* & *embryol.*, *maths.* (computing), *med.*, *obstet.*, *pathol.*, *pharmacol.*, *pharm.*, *phys.*, *physiol.*, *psychol.*, rural vet. centre, Camden, N.S.W., *surg.*, univ. farms, Camden, N.S.W., *vet. sci.* (vet. med., vet. pathol. & bacteriol. and vet. physiol.), *zool.* Govt. labs.—C.S.I.R.O.: *biochem.*, *electr. engin.*, *genetics*, *high pressure*, *plant physiol.*; commonwealth dept. of health: *drug analysis*; state dept. of *agric.*: *milk bd.* labs.

**FIELD STATIONS.** Cronmellin biol. stn., Pearl Beach, via Woy Woy (biol. res. on central coast of N.S.W.). Castle Hill res. stn. (metropolitan area), Waterhouse plant breeding stn., Curlewis (nr. Gunnedah, N.E., N.S.W.). McGarvie Smith animal husb. farm, nr. St. Mary's, N.S.W. (400 acres); *vet. sci.* farms (770 acres) for teaching of animal husb., and rural vet. centre (30 acres) for

teaching of clin. vet. med. & surg. (Camden district, N.S.W.).

**HOSPITALS**—recognized clin. schools. Royal Prince Alfred, Sydney, St. Vincent's and The Royal North Shore; Royal H. for Women and Women's H., Crown St., King George V. Memorial H. for Mothers and Babies (obstet. & gynæcol.); Royal Alexandra H. for Children (pædiatrics); a number of others are recognized for special postgrad. trg.

The **LAW SCHOOL** (univ. dept.) is located at 167 Phillip St., Sydney (tel.: BW5944), and the **DENTAL HOSPITAL OF SYDNEY** (univ. dept. of dent.) at 2 Chalmers St., Sydney (tel.: MA7591); dept. of *archit.* at 146-148 City Rd., Darlington (tel.: 68 0522), and dept. of *archit. sci.* at 118-120 City Rd., Darlington (tel.: 68 0522).

**SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE.** The sch. acts as the teaching and exam. centre for the univ.'s dipls. of pub. health and of trop. med. and hyg. In addition, a course in pub. health and prev. med. is given for undergrad. students. Courses are also given in architectural hyg., soc. hyg., trop. hyg. and indust. nursing. The sch. is financed by the commonwealth health dept., but all teaching is directly controlled by the univ. and the fac. of med., together with all matters concerning dipls., syllabuses, fees, exams., etc. An advisory council of reps. of the univ. and of the commonwealth dept. of health deals with all matters of policy. The staff consists of a dir. (also prof. of prev. med.), a prof. of trop. med., 11 med. officers, and a number of visiting lectrs.; 4 entomologists, 4 parasitologists and 11 technical officers. The DPH entry requirements are those of the General Medical Council of Gt. Britain, the DTM&H courses correspond to similar courses at the London Sch. of Hygiene and Trop. Med. and the Liverpool Sch. of Trop. Med. The main divisions of the school are those of pub. health and prev. med., trop. med. and hyg., indust. hyg., bacteriol. and pathol., parasitol. and protozool., med. entomol., vital stats., child health and environmental health. Library of about 15,500 vols., dealing espec. in trop. med. and hyg., is available.

In the univ. grounds is the **TEACHERS' COLLEGE**, a branch of the state dept. of educn. The courses leading to the univ. postgrad. dipl. in educn. (DipEd) are arranged through co-operation between the staffs of the univ. and the coll. **THE COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION (C.S.I.R.O.)**: National Standards lab., situated in the univ. grounds. Close collaboration in res. activities exists between many univ. depts. and relevant divisions of the C.S.I.R.O. This applies particularly in *agric.*, *biochem.*, *bot.*, *zool.*, *vet. physiol.*, *electr. engin.* and *chem. engin.* At the McMaster animal health lab., div. of animal health and production, C.S.I.R.O., facilities are available for res. in parasitol., bacteriol. and biochem. The McMaster field station (800 acres), attached to the same

div., adjoins the univ. McGarvie Smith animal husbandry farm (*see above*). It is equipped primarily for investigations in genetics and reproductive physiol. in sheep and cattle under field conditions. In the dent. hosp. bldg. is the inst. of dent. res., which was establd. in 1946 for investigations into the causes and prevention of dent. caries. The inst. also does the routine pathol. work for the dent. hosp. The Queen Elizabeth II res. inst. for mothers and infants, which is in the univ. grounds, was establd. in 1958 for investigation of the causes and prevention of illness and deaths of mothers and infants.

**ADMISSION.** *See* Appendix II. It should be noted that admission to the fac. of med. at the present time is restricted to residents of N.S.W. because of shortages in staff and accomm., but the situation is reviewed at the end of each yr.

**NON-MEMBERS OF THE UNIVERSITY.** With approval of fac. concerned, a person without matric. may attend lectures upon payment of necessary fees. Practice in respect of granting sp. approval varies in different facs.

**PUBLIC EXAMINATIONS.** *See* Appendix II.

**FIRST DEGREES.** 1 yr. (after completing 3 yrs. in med.)—BSc(Med) pass, hons.; 3 yrs.—BAgr pass (no hons.), BA pass (4th yr. for hons.), BSc(GenSc) pass (no hons.), BSc pass (4th yr. for hons.), BPharm pass (4th yr. for hons.), BEc pass (4th yr. for hons.); 4 yrs. BScAgr pass, hons., BDS pass, hons., BEd pass (no hons.), BE pass, hons. (acron. engin., civil engin., chem. engin., or mining engin.), BE pass (electr. engin. or mech. engin.) (5th yr. for hons.), BScFor pass (no hons.), LLB (full-time) pass, hons., BMus pass, hons.; 5 yrs.—BArch pass, hons., LLB (part-time) pass, hons., BVSc pass, hons.; 6 yrs. MB BS pass, hons.; 2 yrs.' advanced study or res. (for persons aged 21 yrs. or upwards whose general educn. and sp. qualif. for advanced study and res. have been approved by fac. concerned)—BA or BSc. Matriculated students who have completed 7 specified courses for BA and fulfilled all requirements for DipSocWk may qualify for pass BA and DipSocWk in 4 yrs. The LLB qualifies conditionally for admission to the Bar. Law students may take the BA first, selecting law subjects in 3rd yr., and complete combined course in 6 yrs., thereby gaining concessions in regard to periods of studentship and service as articled clerk. BD pass, hons. degree is obtainable in 2 yrs. after graduation in another fac.

In general, candidates for hons. are required to do extra work except in the facs. of law, med., dent., vet. sci. and archit., in which hons. are awarded on the pass work of the whole course.

There are hons. schools in the following subjects: BA—(a) [ordinary hons. degree] Greek, Latin, classics, Engl., French, German, Italian, Chinese, Indonesian & Malayan studies, hist., philos., govt., psychol., educn., econ., anthropol., pure maths., appl. maths., mathl. stats., geog., music and archæol.; (b) [in sch. of social sciences] hist., philos., govt., psychol., econ. and

anthropol. BSc(Med)—anat., histol. & embryol., biochem., physiol., bacteriol., pathol. and pharmacol. BSc—chem., inorg. chem., organic chem., phys. chem., phys., geol., geophys. with geol., geog., psychol., bot., zool., physiol., biochem., anat., pure maths., appl. maths., agric. chem., pharmaceut. sci. and analysis of foods and drugs, microbiol., phys., anthropol., pharmacol. and mathl. stats. BScAgr—agric. chem., agric. econ., agric. entomol., agric. genetics, agric. microbiol., agron., animal husb., gen. agric., plant pathol., soil sci. and agric. bot. BEc—econ., econ. hist., govt., econ. stats. and accounting.

The BA, LLB, BSc(GenSc) and BEc may be taken solely by pt.-time attendance, the BA and BEc solely by evg. attendance.

**HIGHER DEGREES.** Master's degree—open to bachelors of the standing specified: agric. (MScAgr), 2 yrs. (pass), 1 yr. (hons.) from BSc Agr, 3 yrs. from BAgr; archit. (MArch), 3 yrs.; arts (MA), 3 yrs. (pass), 2 yrs. (hons.) for MA with or without hons., 1 yr. (hons.) (full-time study and res.) for MA with hons.; dent. (MDS), 2 yrs. (pass), 1 yr. (hons.); econ. (MEc), 2 yrs.; educn. (MEd), 3 yrs. with DipEd of 2 yrs.' standing; engin. (ME), 4 yrs. (pass), 3 yrs. (hons.), (MEngSc), 2 yrs. (pass), 1 yr. (hons.); pharm. (MPharm), 2 yrs. (pass), 1 yr. (hons.); law (LLM), 2 yrs.; sci. (MSc), 2 yrs. (pass), 1 yr. (hons.); surg. (MS), 5 yrs.; town & country planning (MTCP), 3 yrs. with DipTCP of 1 yr.' standing; vet. sci. (MVSc), 2 yrs. Doctorates (except PhD)—provided 8 yrs. have elapsed since matric. in the fac. concerned, candidature is open to bachelors of the standing specified: letters (DLitt), hon. and earned, 8 yrs.; div. (DD), 5 yrs.; law (LLD), hon. and earned, 2 yrs.; med. (MD), 5 yrs.; sci. (DSc), hon. and earned, 8 yrs. (pass), 7 yrs. (hons.); engin. (DScEng), 8 yrs. (pass), 7 yrs. (hons.); dent. (DDSc), 4 yrs.; vet. sci. (DVSc), 2 yrs.; agric. (DScAgr), 5 yrs. (pass), 4 yrs. (hons.). PhD—after graduation an approved candidate may proceed to the PhD, which takes at least 2 yrs. (*see below*, 'Postgraduate Study').

All higher degrees (except DLitt, DD and ME) are open to grads. of other approved univs. Courses of instrcn. for MEd and MTCP and facilities for res. for PhD and all degrees of master (except MS) are provided. Grads. of other univs. who are candidates for PhD or any master's degree (except MS) may be required to attend courses of instrcn. in addn. to undertaking supervised res. which must be carried out at Univ. of Syd.

Except for MEngSc and PhD, grads. of Syd. Univ. are not required to carry out, within Syd. Univ., the res. for above higher degrees. The res. for MEngSc and PhD must be carried out within Syd. Univ.

**DIPLOMAS.** *Postgraduate*: agric., by exam. & thesis, open to grads. who have completed courses acceptable to fac., 1 yr.—(DipAgrChem); (DipAgrEc); (DipAgrEnt); (DipAgrGen);

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(DipAgrMicro); (DipPIPath); (DipAgrSc); educn. (DipEd), which may be taken also in the teaching of English as a foreign lang., by exam., open to grads. in any fac., 1 yr.; dent. (DPI Dent), by exam. and thesis, open to grads. of 1 yr.'s standing who have completed courses acceptable to fac. of dent., 1 yr.; numerical analysis & automatic computing (DipNA&AC), by exam., open to grads. who have completed maths. II (pure & appl.), 1 yr.; psychol. (DipPsychol), by exam., open to grads. with hons. or equivalent in psychol. who have completed approved work in abnormal psychol., 2 yrs.; medical, by exam. after completing prescribed course, open to qualified med. practitioners who have had specified general and special experience—anaesthesia (DA), 6 mos.; clin. pathol. (DCP), 13 mos.; dermatological med. (DDM), 10 mos.; gynaecol. and obstet. (DGO), 6 mos.; laryngol. and otorhinol. (DLO), 6 mos.; ophthalmol. (DO), 6 mos.; pub. health (DPII), 1 yr.; psychol. med. (DIPM), 15 mos.; diagnostic radiol. (DDR), 1 yr.; therapeutic radiol. (DTR), 1 yr.; trop. med. and hyg. (DTM&H), 5 mos. *Not restricted to graduates*: anthropol. (DipAnth), grads., by thesis within 3 yrs. or such longer period as approved by fac., non-grads., by exam. and thesis within 5 yrs.; social work (DipSocWk), by exam., 3 yrs. (2nd-yr. status may be granted to candidates who have completed 3 specified courses towards BA); town and country planning (DipTCP), by exam., 2 yrs. Where applicable all dipls. are open to grads. of any approved univ.

**POSTGRADUATE STUDY AND RESEARCH FACILITIES.** The univ. offers postgrad. courses for dipls. in educn, numerical analysis & automatic computing, psychol. and in those fields in med. and agric. specified above under the heading 'Diplomas Postgraduate'. The usual facilities for postgrad. res. are provided in the various depts., and candidates may proceed to the master's degree in most facs and to the PhD in the facs. of arts, sci., engin., dent., vet. sci., agric., econ. and archit. after completing at least 2 yrs.' supervised res. The univ. publishes annually a statement entitled *Research and Scholarship* which sets out particulars of the res. completed and in progress in the different depts.

**RECOGNITION OF STUDIES ELSEWHERE.** The professorial bd. grants proper status to persons who have completed part or all of a degree course in other univs.

**STUDY LEAVE.** 1 yr. on salary after completion of 6 yrs.' service for full-time permanent members of teaching and certain sr. members of admin. staffs; leave is not accumulative. Addnl. leave may be granted without salary. Leave may be granted with salary at the equivalent rate of 1 term for each 2 yrs. of service, e.g. after 6 yrs. since the last period of leave with salary, a term's leave with salary may be granted and leave entitlement retained for the remaining 4 yrs. of service. Certain travel allowances are granted.

**FEES.** Matric., £A3; degree: BA, BMus,

BEd, BSc, BSc(GenSc), BSc(Med), BScFor, BPharm, BScAgr, BAg and BEC, £A3; BD, BVSc, MA, MSc, MScAgr and MEc, £A5; MEd, LLB, LLM, MB, BS, BE, BDS, MDS, ME, MEEngSc, MArch, BArch and MTCP, £A10; doctor in any fac., £A20; degree courses in arts (pass, 3 yrs.), men £A279, women £A280; (hons. in 1 sch., 4 yrs.), m. £A299, w. £A302; (hons. in 2 schs., 4 yrs.), m. £A350, w. £A353; in music (2 yrs. following 2 yrs. arts), m. £A103, w. £A107; in educn. (4 yrs.) (primary & pre-primary), m. between £A344 and £A389, w. between £A347 and £A383 according to subsj., (phys. educn.), m. £A464, w. £A467; in div., 3 yrs., £A192; in law, 4 yrs., m. £A413, w. £A416 (arts subsj. addnl.); in law, 5 yrs., m. £A431, w. £A430 (arts subsj. addnl.); in med., 6 yrs., m. £A731, w. £A730 (excl. hosp. attendance, £A36, and practical midwifery, £A23); in sci. (pass, 3 yrs.), m. £A351, w. £A352; (hons., 4 yrs.), m. £A416, w. £A419; in gen. sci., m. between £A360 and £A558, w. between £A361 and £A559 according to subsj., in min. period of 3 yrs.; in pharm. (pass, 3 yrs.), m. £A351, w. £A352 (hons., 4 yrs.), m. £A416, w. £A419; in engin., 4 yrs. (civil, mech. and electr.), m. £A546, w. £A549; (chem. mining and aeron.), m. £A591, w. £A594; (hons. mech. engin., 5 yrs.), m. £A612, w. £A616; (hons. electr. engin., 5 yrs.), m. £A663, w. £A662; in dent., 4 yrs., m. £A531, w. £A532 (excl. dent. hosp., £A18 p.a.); in vet. sci., 5 yrs., m. £A483, w. £A482 (excl. residence at univ. farm, £A24); in agric. (pass, 3 yrs.), m. £A328, w. £A329; (pass, 4 yrs.), m. £A432, w. £A435, in econ., 4 yrs. (day students), m. £A303, w. £A304; 5 yrs. (evg. students), m. £A330, w. £A329; in archit., 5 yrs., m. £A690, w. £A688.

**ACADEMIC YEAR.** March to Nov.; 3 terms of 9 weeks each.

**PRINCIPAL 'OPEN' AWARDS** for candidates at N.S.W. leaving cert. exam. (all figures in Australian currency). *Scholarships*—commonwealth govt. schols. (see p. 12) tenable for normal period for first degree to all Australian univs. (752 awarded to Sydney Univ. for 1960); James Aitken (2), £50 for 1 yr. in any fac.; Bowman-Cameron, £50 p.a. for 3 yrs. in arts; Martin Mellrath (2 vet. sci., 2 agric., preference to ex-servicemen or their sons), £75 each for 1 yr.; Queen Victoria (for best girl matriculant needing financial assistance), £20 p.a. for 3 yrs. in any fac.; Robert Campbell (preference to necessitous child of member of A.I.F., 1914–18), £50 p.a. for 2 yrs. in any fac.; Barker No. III, £50, and Horner exhibition, £10, for 1st-yr. course in maths., in arts, sci. or engin.; Liversidge (2), £37:10s. each for 1st-yr. course in chem.; (L.C. and special paper)—Cooper No. II, £50 for 1st-yr. courses in Latin and Greek; Garton No. III, £42:10s. for 1st-yr. course in French; Lithgow No. I, £35 for 1st-yr. course in German; Plumian scholp., £70 for 1 yr. in sci.; Gowrie schols. (4 for members of forces on active service, 1939–45 war, their children or grand-

children), £75 p.a. for normal period of course. Bursaries (40) awarded under Bursary Endowment Act, 1912, to commonwealth scholars : £65 p.a. (for students living at home), £104 p.a. (for students living away from home), with allowance for text-books not exceeding £10 p.a. in each case, tenable for normal period of course, subject to financial circumstances ; a limited number of privately endowed bursaries for promising but necessitous students, £25-£50 p.a., with or without remission of lecture fees, awarded annually. Univ. grants remission of half lecture fees for students sponsored by Soldiers' Children Educn. Bd. (N.S.W. Repatriation Dept.) and bd. pays all other fees. Sydney Legacy War Orphans' Fund covers all fees for students sponsored by Legacy Club of Sydney.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** A. E. & F. A. Q. Stephens postgrad. res. fellowship, £A850 p.a., tenable by a grad. of any univ. except the Univ. of Syd. for 1 yr. (may be renewed for 2nd yr.) for postgrad. work within the Univ. of Syd. in any fac. H. B. & F. M. Gritton postgrad. res. scholps. (2), sr. grade : £A1150 p.a., jr. grade : £A850 p.a., tenable for up to 2 yrs. by grads. of any univ. within British Commonwealth or by grads. of any univ. who are British subjs., for postgrad. study within Univ. of Syd. in chem. in relation to industry and agric. Commonwealth postgrad. res. studentships (applicants must be domiciled in Aust.) and univ. res. grant studentships, £A850 to £A950 p.a. (to £A1000 p.a. in sp. circumstances), tenable by grads. or graduands of any Aust. or overseas univ. for 1 yr. (may be extended for 2nd, 3rd or 4th yr.) for postgrad. work within Univ. of Syd. in any fac.

There is a **PUBLIC RELATIONS AND INFORMATION OFFICE.**

**APPOINTMENTS BOARD** (tel. : 68 1720). Assists grads. and undergrads. to secure permanent, temp. and pt.-time appts. and makes careers information available to all students. The bd. also collaborates with the extension bd. in arranging lectures for business executives.

**GRADUATES' ASSOCIATIONS.** Chemical Soc., Dental Alumni Soc., Sydney Asscn. of Univ. Teachers, N.S.W. Asscn. of Univ. Women Graduates, Univ. Club (for men), Newman Asscn. of Catholic Graduates, the Kafeiroi of the Univ. (dining club for male grads. and undergrads.), Soc. for Exper. Biol. of N.S.W., Sydney Univ. Agric. Graduates' Asscn., Arts Asscn. (for grads. and other interested persons), Economics Graduates' Asscn., Chem. Engin. Asscn., Civil Engin. Graduates' Asscn., Electr. Engin. Soc.

**RESIDENCE.** The 6 colls. within the univ. (see p 85) provide accomm. for the no. of students indicated : St. Paul's Coll., 145, fees £A225 p.a. ; St John's Coll., 83, fees £A250 p.a. ; St. Andrew's Coll., 158, fees £A235 : 48. p.a. ; Wesley Coll., 130, fees £A235 : 48. p.a. ; the Women's Coll.,

146, fees £A232 : 108. p.a. ; Sancta Sophia Coll., 77, fees £A210 p.a. Tuition, supplementary to univ. lectures and classes, is given in the colls. Most of the tutors are members of the univ. staff ; some are resident in the colls. but all are available to students for personal consultation. Students need not reside in one of the colls.

**STAFF RESIDENCES.** There are no residences controlled by the univ. for members of teaching staff. The univ. has, however, arranged with its bankers for larger advances than are normally granted on mortgage to be made to male married members of permanent teaching and sr. admin. staffs for purchase of houses as approved by the univ. and its bankers. The bank advances up to 90 per cent. of approved purchase price and the univ. guarantees 25 per cent. of repayment of purchase price of houses bought under this scheme.

**ADULT EDUCATION.** Univ. extension lectures arranged by the extension bd. are given in courses of from 3 upwards. Tutorial classes are provided, as prescribed by the act of 1912, under the superintendence of a jt. cttee. of the univ. and the W.E.A. of N.S.W.

**VACATION COURSES.** (a) Short bridge course in maths. in Feb. as intro. to maths. I for students who have passed in gen. maths. at matric. level. (b) Short intro. course in phys. in Feb. for students who have not previously studied phys. (c) Conversion course in phys. in Jan. for students who have completed phys. I and wish to proceed to phys. II (dist.). (d) Course in marine biol. held in May at C.S.I.R.O. marine biol. stn., Cronulla, N.S.W. (e) Refresher course for sch. teachers of German in Jan. (f) Seminar for music teachers and members of public conducted by dept. of music in May. (g) Summer sch. for phys. sch. teachers in Jan. (h) Postgrad. refresher course in vet. sci. conducted by extension bd. and fac. of vet. sci. in Feb. (i) Summer sch. at postgrad. level conducted by fac. of law in Jan. (j) Seminars on advanced topics in dept. of mech. engin. in May. (k) Occasional courses at postgrad. level in civil engin. and in geol. & geophys. (l) Dept. of tutorial classes : in conjunction with W.E.A., 10 days' summer sch. at univ. (part residential), residential week-end courses throughout yr. and 10 days' courses in Dec./Jan. for class students and general public at W.E.A. sch., Newport, nr. Sydney. (m) Sch. of pub. health and trop. med. : vacation courses vary according to demand, e.g. in 1960, course in indust. hyg. for med. practitioners, one for sch. med. officers and one on mosquito control for health personnel. Another course of 30 lectures in trop. med. and hyg. for missionaries, planters, nurses, etc., held annually during term.

**UNIVERSITY MILITARY AND AIR FORMATIONS.** The Sydney Univ. Regiment is organized along the lines of a pentropic infantry bn. but with a sp. component for officer-training. It forms part of the citizen military forces. C.O. : Lt.-Col. K. G. Mosher, OBE, ED, BSc. H.Q. : S.U.R. Trg. Depot, Univ. (tel. : 68 3034). The Sydney

Univ. Squadron, a citizen air force unit of the R.A.A.F., gives undergrads. an opportunity to do officer trg. which, in accordance with their academic qualifs., will fit them for service as officers on the permanent air force or the reserve. The sqn. incl. undergrads. apptd. to commissions in the permanent air force. C.O.: S/Ldr. J. L. Ingate. H.Q.: Dymock's Bldg., 428 George St., Sydney (tel.: BL4381).

**STUDENT ATHLETIC FACILITIES.** For men and women: athletics, badminton, basket-ball, cricket, fencing, golf, gymnastics, hockey, judo, skiing, squash rackets, swimming, table tennis, tennis. For men: baseball, boxing, football (rugby union, Aust. rules, soccer), rifle shooting, rowing, volley ball, water polo, weight lifting, wrestling. For women: softball.

**STUDENT HEALTH SERVICE.** Free diagnostic health service is available for students.

**STUDENTS' REPRESENTATIVE COUNCIL** comprises reps. of men and women day students in the several facs. (elected by ballot), reps. of evg. students' assocn. (chosen by assocn. cttee.), a pres. and other officers (chosen by these reps.). The S.R.C. conducts the affairs of the student body and represents it generally, makes representations to the univ. on behalf of the student body or student soc., and has certain disciplinary powers subject to approval of vice-chancellor. All students must pay membership fee of £A1:7s. (tel.: 68 1003).

**UNIVERSITY UNIONS.** The unions are an integral part of the univ. Sydney Univ. union (for men), founded in 1874 as a debating soc. Dining-rooms (public and private), reading-rooms, common-rooms, billiards-room, library, mercery dept. and bank agencies; union theatre under constrcn. Fees: £A5 entrance fee and annual sub., £A4, for all matriculated men students; life membership (grads.), £A25. Sec.: I. A. Ramage, BEc. Sydney Univ. women's union, founded in 1914. Premises, Manning House. Dining-rooms, common-rooms, study-room, stationery shop. Fees: £A6 annual sub. for all women students enrolled in a course; life membership (grads.), £A25. Sec.: Beryl E. Stevens, BA DipEd.

**PUBLICATIONS.** *Calendar*, with annual report, 7s. 6d.; *Handbooks* of the facs. of arts (annually), dent. (biennially), sci. (annually), 4s. 6d. each, fac. of econ. (biennially), dept. of town and country planning (triennially), 2s. 6d., and to the Nicholson museum of antiquities (o.p.); *Prospectuses* of the depts. of music, soc. work and tutorial classes and sch. of div. (annually); annual exam. papers in sets, 2s.; *Annual Reports*

of: appts. bd., extension bd., postgrad. cttee. in med., bd. of soc. wk., sports union (men's), Syd. Univ. union, jt. cttes. for tutorial classes, women's union. *Research and Scholarship* (annually); *List of Graduates* (every 5 yrs.); *Letter to Sydney Univ. Graduates from the Vice-Chancellor and Principal* (annually); *The Gazette* (quarterly); *Current Affairs Bulletin*, 27 vols. (fortnightly, ed. by dept. of tutorial classes), 6d. a copy or annual sub. 13s. 6d. for 26 copies; *Oceania*, 30 vols. (quarterly), £A2 a copy (vols. 1-22, £A1:10s. a copy) or annual sub. £A2; *Aust. Journal of Educn.* (3 issues annually) (ed. by dept. of psychol.), 7s. 6d. a copy or annual sub. £A1:1s.; *The Sydney Law Review* (annually, under auspices of fac. of law), £A1; *The Nucleus* (bi-monthly); *Union Recorder* (weekly during term); *Bulletin of the Postgrad. Cttee. in Medicine* (monthly), 3s. 6d. a copy or £A2:2s. p.a.; *Arts—The Proceedings of the Sydney Univ. Arts Assocn.* (periodically), 10s. 6d. a copy; *Apollonia* (annually) (journal of Dental Alumni Soc.); *Manna* (journal of Newman Assocn.) (annually), 4s.; *The Univ. of Sydney, A Description*, 5s.; *The Univ. of Sydney Centenary Celebrations, 1952, 15s.*; *The Union Book of 1952* (commemorating the centenary of the univ.), £A1:1s.; H. E. Barff, *A Short Historical Account of The Univ. of Sydney, 1852-1902* (o.p., but some copies available at univ.); *The Jubilee Book of the Law Sch., 1890-1940* (o.p. but some copies available at Law Sch.), 5s.; W. Vere Hole & Anne H. Trewecke, *The History of The Women's Coll., 1889-1953*, 17s. 6d. Students' publications: *Honi Soit* (weekly during term); *Innominate* (med.) (twice a term); annually: *Orientation Handbook*, *Triticum* (agric.), *Arna*, *Hermes* (arts), *Articulator* (dent.), *Economic Review*, *Journal of the Sydney Univ. Econ. Soc.*, *Engineering Yearbook*, *Blackacre* (law), 5s., *Senior Yearbook—Sydney Univ. Medical School*, *Sydney Univ. Medical Journal*, *Science Yearbook*, *Centaur* (vet. sci.), *Vesperis* (evg. students' assocn.), *St. Andrew's Coll. Magazine*, *Johns* (St. John's Coll.), *Pauline*, *Yakkai* (St. Paul's Coll.), *Mens Eadem* (Sancta Sophia Coll.), *Wesley Coll. Journal*, *Sydney Univ. Women's Coll. Magazine*, *Sydney Univ. Women's Coll. Calendar*.

**UNIVERSITY BOOKSHOP.** In 1958 the Sydney Assocn. of Univ. Teachers and the Students' Rep. Council sponsored the formation of Univ. Co-operative Bookshop Ltd. under the Co-operation Act of N.S.W. The co-operative operates 2 bookshops within the univ. grounds and has branches in several other educnl. institutions. Its main purpose is to provide a service at low cost in educnl. and tech. books for students, teachers and other members.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Estate of Dr. E. C. Hall, £A82,856 for endowment of chair of archaeol. & mythol. in the anc. middle east;

W. H. Deans, property valued at £A25,000, income for library funds; N.S.W. Wheat Res. Foundation, £A25,000 for devel., maintenance

and admin. of North West Wheat Res. Inst. at Narrabri, N.S.W.; estate of Dr. Phyllis M. Anderson, £A18,650 for res. fellowship in fac. of med.; estate of J. L. Wildridge, £A12,500 for cancer res.; A. Basser, £A10,000 for electronic computer in sch. of phys.; S. E. Chatterton, £A10,000 for establishment of dept. of astronomy in sch. of phys.

(Total value of *all* benefactions received: £A567,041.)

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* geog. bldg. comprising 4 floors (to accomm. depts. of geog., music, town & country planning and the univ. co-operative bookshop); dairy res. unit at rural vet. centre, Camden, N.S.W.; alterations to old org. chem. lecture theatre to provide an addnl. lecture-room and staff-rooms; extensive alterations to old org. chem. bldg. to provide addnl. accomm. for dept. of admin.; addnl. floor for dept. of med.; chapel, library and residential wing (St. Paul's Coll.); 20 students' rooms, 2 tutors' flats and 2 tutorial-rooms (The Women's Coll.); extensions to library (Sancta Sophia Coll.). *Approaching completion:* Mungo MacCallum bldg. comprising 6 floors to accomm. offices and tutorial-rooms for depts. of educn., psychol., Italian, oriental studies and Indonesian & Malayan studies as well as a staff centre and offices for students' rep. council and students' clubs; new students' common-room, new dining-hall (to accomm. 300), former dining-hall converted to chapel and former chapel to common-room and library (St. Andrew's Coll.); 52 new students' rooms and appropriate services (St. John's Coll.); extensions to east wing (Sancta Sophia Coll.).

**NEW DEPARTMENTS AND CHAIRS.** Dept. and chair of mathl. stats.; 2nd chair of hist.; chair of theoret. phys.; chair of thermo-nuclear phys.; chair of acctg.; 2nd & 3rd chairs of law; chair of pharm.; Edwin Cuthbert Hall chair of middle eastern archaeol. & mythol.

**RETIREMENTS.** W. I. T. Hotten (anaesthetics); R. Jeremy (clin. med.); Ida B. Saunders (obstet.); H. J. Vogan (civil engin.).

**RESIGNATIONS.** Dr. J. Andrews (geog.), apptd. to chair of geog., Melb.; Dr. R. T. Fowler (chem. engin.), apptd. to chair of chem. engin., N.S.W.; Dr. J. P. W. Gaskell (Engl.), apptd. to fellowship at King's Coll., Camb.; Dr. N. S. Jenkin (psychol.); A. K. Lascelles (vet. sci.), apptd. to res. fellowship at John Curtin sch. of med. res., A.N.U.; W. B. Lockwood (German); C. A. McCormick (Italian), apptd. sr. lectr. in Italian, Melb.; Dr. N. B. Malleson (student health services); Prof. D. M. Myers (electr. engin.), apptd. dean of fac. of appl. sci., Br. Col.; H. J. Oliver (Engl.), apptd. to chair of Engl., N.S.W.

**DEATHS.** Dr. J. Bannon (lectr. in phys.); Emer. Prof. A. N. Burkitt (prof. of anat., 1926–

1955); Prof. G. G. McDonald (prof. of mech. engin.); Assoc. Prof. K. P. Mackinnon (assoc. prof. of prosthetic dent.); Dr. M. R. Schafroth (reader in phys.); R. C. Thorne (lectr. in appl. maths.).

**HONORARY DEGREES.** *LLD*—Tunku Abdul Rahman Putra Al-Haj, prime minister, Fed. of Malaya; W. C. Wurth, chancellor, N.S.W. *DLitt*—T. G. Taylor, formerly assoc. prof., Syd., and prof. of geog., Chic. and Tor.; H.E. Lt.-Gen. Sir Eric Woodward, governor of N.S.W. *DSc*—F. Debenham, formerly prof. of geog., Camb.

## Statistics

### STUDENT NUMBERS, 1960

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	5840	2780
Women . . .	2203	1127
Total . . .	8043	3907

Distribution by Faculties. *Agric.*, 252; *archit.*, 197; *arts*, 3456; *dent.*, 338; *div.*, 2; *econ.*, 777; *educn.*, 3; *engin.*, 772; *law*, 822; *med.*, 2213; *music*, 3; *pharm.*, 209; *sci.*, 1350; *vet. sci.*, 278. Others: *anthropol.* (DipAnth), 3; *educn.* (DipEd), 230; *numerical analysis & automatic computing* (DipNA&AC), 9; *psychol.* (DipPsychol), 6; *soc. stud.* (DipSocStud), 14; *soc. work* (Dip SocWk), 44; *town & country planning* (DipTCP), 54; *students studying under regns. of: Aust. Coll. of Speech Therapists*, 14; *Aust. Physiotherapy Assocn.*, 80; *Pharmacy Bd. of N.S.W.*, 824. Total: 11,950.

*Included in the figures above are:—*

Postgraduate students, 821.

New admissions, 3460.

Students from other countries, 964. (Countries from which largest numbers came: Fed. of Malaya, 322; Hong Kong, 197; Singapore, 168; N.Z., 60; Indonesia, 41; Fiji, 28; Thailand, 25; N. Borneo, 21; U.S.A., 17).

**DEGREES AWARDED (1959).** *BAgr.*, 13; *BScAgr.*, 30; *MScAgr.*, 10. *Archit.*: BArch, 17; *March*, 1. *Arts*: BA, 339; MA, 15; *DLitt*, 1. *Dent.*: BDS, 43; MDS, 5; *DDSc*, 2. *Div.* BD, 1. *Econ.*: BEc, 62; *MEc*, 2. *Educn.* MEd, 2. *Engin.*: BE, 94; *MEngSc*, 4; *ME*, 1. *DScEng*, 1. *Law*: LLB, 81. *Med.*: MB, 193; BS, 196; ChM, 1; MD, 4; *BSc(Med)*, 8. *Sci.*: BSc(GenSc), 18; BSc, 125; MSc, 22; *DSc*, 2; *BScFor*, 8. *Vet. sci.*: BVSc, 26; *DVSc*, 1. *PhD* (all facs.), 29. *Total number of first degrees awarded*, 1254.

**DIPLOMAS AWARDED (1959).** *DipEd*, 119; *DCP*, 4; *DDM*, 3; *DDR*, 4; *DGO*, 2; *DO*, 3; *DPH*, 8; *DPM*, 6; *DTM&H*, 31; *DipSocStud*, 8; *DipSocWk*, 3; *DipTCP*, 14.



# UNIVERSITY OF TASMANIA\*

Founded 1890

Postal Address : Box 252 C, G.P.O., Hobart, Tasmania, Australia

Cables and Telegrams : University, Hobart

Telephone : Hobart 27741

VISITOR—H.E. THE GOVERNOR OF TASMANIA

CHANCELLOR—The Hon. H. S. BAKER, CMG, DSO, LL.M.

DEPUTY CHANCELLOR—N. S. KIRBY, BE *Syd.*

VICE-CHANCELLOR—K. S. ISLES, MA MSc *Camb.*

REGISTRAR—A. S. PRESRAW, BA *W.Aust.*, FCIS

LIBRARIAN—D. H. BORCHARDT, MA *N.Z.*

## TEACHING STAFF

[† = Part-Time]

**Accountancy**, see Comm.

### Botany

Barber, H. N., MA *Camb.*, PhD *Lond.*,  
FAA  
Curtis, Winifred M., MSc PhD *Lond.*,  
FLS  
Jackson, W. D.  
Crowden, R. K., BSc  
† Demr.

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.

### Chemistry

Bloom, H., MSc *Melb.*, DIC, PhD *Lond.*  
Polya, J. B., DiplIngChem DScTech *Zur.*,  
DSc, FRIC  
Kelly, F. H. C., MSc *Melb.*, DSc, FRACI  
Bick, I. R. C., BA MSc *Q'ld.*, PhD *Camb.*  
Friend, J. A., MSc *Syd.*, PhD *Camb.*  
Cheesman, G. H., DIC, BSc PhD *Lond.*,  
FRIC  
Roberts, N. K., BA *W.Aust.*, BSc  
4 Demrs.

Prof.  
Assoc. Prof.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.

### Classics

Elliott, J. R., BA *Syd.*, MA DipClassArchæol  
*Camb.*  
Waters, K. H., MA *Camb.*  
Hood, R. G., BA *Melb.*

Prof.  
Sr. Lectr.  
Lectr.

### Commerce

Firth, G. G., BSc(Econ) *Lond.*

Prof.

Grant, J. McB., MEc *Adel.*, DipEcon *Camb.*

(Appl. Econ.) Prof.

Dallas, K. M., BCom  
Hagger, A. J., BCom *Melb.*, PhD *Lond.*  
Vout, A. W., BEc  
Nichols, W. E., BCom  
Dunn, L. J., BCom

Sr. Lectr.  
Sr. Lectr.  
Lectr.  
(Acctg.) Lectr.  
(Acctg.) Lectr.

### Education

Hardie, C. D., MA *Camb.*  
Doe, T. E., BSc  
Collins, T. G., BSc DipEd  
Perkins, W. H., BA DipEd  
Chappell, F. R., MA *Camb.*, DipEd *Lond.*  
Porter, R. C., BA DipPhysEd *Syd.*  
Horsfall, Margaret L. O., BA  
DipEd *W.Aust.*  
Wilmot, Mrs. Charlotte M., DipEd  
DipPhysEd *Syd.*, BA  
Mahoney, D. P. D., BEd *Melb.*, BSc  
Hughes, P. H., BSc *Oxon. & Tas.*, DipEd

Prof.  
Supervisor of Pract. Teaching  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.

### Engineering

Oliver, A. R., ME *Adel.*  
Newstead, G. H., MEE *Melb.*  
Burrell, G. J., BE(Mech) *N.Z.*  
Trott, S. M., BSc  
Brownell, C. D., BE  
Gregory, M. S., BE  
Beresford, J. E., BE  
Reynolds, G. C., BE *Adel.*  
Brodie, J. H., BSc BE *Syd.*  
Uilley, E. M., BA *Oxon.*, BSc  
† Lectr.

(Civil E.) Prof.  
(Electr. E.) Prof.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
† Lectr.

\* Member of the Association of Universities of the British Commonwealth

**English Language and Literature**

Todd, F. M., MA <i>N.Z.</i> , PhD <i>Lond.</i>	Prof.
Harwood, F. W., MA <i>Melb.</i>	Sr. Lectr.
Stokes, E., MA <i>Syd.</i>	Sr. Lectr.
Porteous, A., MA <i>Edin.</i>	Lectr.
Hergenhan, L. T., MA <i>Syd.</i>	Lectr.

**Geography**

Scott, P., MSc(Econ) <i>Lond.</i>	Prof.
Davies, J. L., MA <i>Wales</i>	Sr. Lectr.
Solomon, R. J., BA <i>Syd.</i> & <i>Oxon.</i>	Lectr.

**Geology**

Carey, S. W., DSc <i>Syd.</i>	Prof.
Banks, M. R., BSc <i>Syd.</i>	Sr. Lectr.
Spry, A. H., MSc <i>Adel.</i>	Sr. Lectr.
Green, R., BSc <i>Q'ld.</i>	Lectr.
Solomon, M., BSc <i>Lond.</i> , MSc	Lectr.
1 Demr.	

**History**

Pike, D. H., DLitt <i>Adel.</i>	Prof.
Wilson, G. T. J., MA <i>Camb.</i> & <i>N.Z.</i>	Sr. Lectr.
McRae, M. D., BA	Lectr.
Roe, O. M., BA <i>Camb.</i> , MA <i>Melb.</i>	Lectr.

**Law**

Dunbar, N. C. H., LL.M. <i>Sheff.</i> , JSD <i>Yale</i>	Prof.
Higgins, P. F. P.	Sr. Lectr.
Fricke, G. L., LL.B. <i>Melb.</i>	Lectr.
Howard, M., LL.M. <i>Birm.</i>	Lectr.
Nygh, P. E., LL.B. <i>Syd.</i>	Lectr.
.....	Lectr.

**Mathematics**

Pitman, E. J. G., MA BSc <i>Melb.</i> , FAA	Prof.
Goddard, L. S., BSc <i>Syd.</i> , PhD <i>Camb.</i>	Prof.
Unquhart, M. L., BSc	Sr. Lectr.
Greve, W. A. J., DipMaths <i>Hamburg</i>	Lectr.
Pitman, E. J., PhD <i>Syd.</i> , BA	Lectr.

**Modern Languages**

Smith, I. H., BA <i>Melb.</i> , DU <i>Paris</i>	Prof.
Batt, Jean C., BA	Sr. Lectr.
Peyrondet, J. M. L., Dipl'd'ÉtSup	
<i>Aix-Marseilles</i>	Lectr.
St. Leon, R. P. F., MA <i>Syd.</i>	Lectr.
Smith, Mrs. Sybil, MA <i>Syd.</i>	Lectr.
Smith, V. B., MA	Lectr.

**Philosophy**

.....	Prof.
Milanov, K., PhD <i>Berl.</i>	Sr. Lectr.
	Lectr.

**Physics**

Ellis, G. R. A., BSc PhD	Prof.
Cruickshank, F. D., DSc	Assoc. Prof.
Fenton, A. G., PhD <i>Birm.</i> , BSc	Reader
Buchdahl, H. A., DSc <i>Lond.</i> & <i>Tas.</i>	Reader
Scott, B. I. H., BSc PhD	Sr. Lectr.
Fenton, K. B., BSc PhD	Lectr.

**Political Science**

Townsley, W. A., BA <i>Birm.</i> , DipEd <i>Lond.</i> , MA	Prof.
Lithgow, G., MA <i>Glas.</i> , BA <i>Oxon.</i>	
(Pub. Admin.)	Lectr.
.....	Lectr.

**Psychology**

Cardno, J. A., MA <i>Aberd.</i> & <i>Camb.</i>	Assoc. Prof.
.....	Lectr.
Tucker, Mrs. Wilma A., BA <i>Melb.</i> , PhD <i>Lond.</i>	Lectr.

**Zoology**

Clark, A. M., MSc <i>Melb.</i> , PhD <i>Camb.</i>	Ralston Prof.
Guiler, E. R., BSc <i>Belf.</i> , PhD	Sr. Lectr.
Hickman, J. L., BSc	Lectr.
1 Demr.	

**ADMINISTRATIVE AND OTHER STAFF**

UNIVERSITY OFFICE. Bursar : G. B. Harrison, FASA. Asst. Registrar : D. A. Kearney, LLB. Asst. Accountants : G. T. Briggs, BCom ; A. E. Paterson. Admin. Assts. : K. R. Skinner, BA *N.E.* ; A. K. Lojkin, BA *Melb.* Chief of Exams. : Linda E. Weidenhofer.

LIBRARY. Dep. Librarian : Mrs. Mary J. Marshall, BA.

†STUDENT ADVISERS. G. T. J. Wilson, MA *Camb.* & *N.Z.* ; Mrs. Wilma A. Tucker, BA *Melb.*, PhD *Lond.*

PHOTOGRAPHIC DEPT. TECHNICIAN : T. S. McMahon.

**AFFILIATED RESIDENTIAL COLLEGES**

CHRIST COLLEGE, Park St., Hobart (tel. : Hobart 24580). Warden—Rev. J. L. May, MBE, MA. For univ. and theol. students only ; fees, £A180 p.a. Accom., 36. Tuition given to theol. students only.

HYTTEN HALL, University Grounds, Sandy Bay (tel. : Hobart 23534). Warden—G. T. J.

Wilson, MA *Camb.* & *N.Z.* For men ; fees, £A176 p.a. Accom., 120.

JANE FRANKLIN HALL, 308 Davey St., Hobart (tel. : Hobart 25728). Principal—R. Fleming, BEc DipEd *Syd.* For women ; fees, £A184 p.a. Accom., 40. Tutorials held in some subs.

## AFFILIATED SCHOOLS

(Students who have completed courses at these schs. may be exempted from certain requirements of univ. degree courses, subject to approval of the fac. concerned. Majority of exemptions are to holders of dipls. proceeding to BE or BSc)

HOBART TECHNICAL COLLEGE, Bathurst St., Hobart (tel. : Hobart 23005). Principal—A. E. H. Griffiths, BSc(Eng).

LAUNCESTON TECHNICAL COLLEGE, Wellington

St., Launceston (tel. : Launceston 22531). Principal—J. W. Faulkner, BCom DipEd.

MT. LYELL SCHOOL OF MINES AND INDUSTRIES, Sticht St., Queenstown (tel. : Queenstown 36). Registrar—H. V. Grecian.

## GENERAL INFORMATION

Founded in 1890 under an act of the Tasmanian legislature, the univ. was granted a royal charter in 1915. To the original facs.—arts, sci. and law—comm. was added in 1919, engin. in 1922 and educn. in 1951. Teaching in agric. begins in 1961. Music was taught in the fac. of arts from 1935 to 1938 but the lectureship has lapsed.

**CONSTITUTION.** The univ. consists of a council and convocation. The council, which has the management and control of the affairs and property of the univ., consists of 19 to 21 members, 4 of whom are elected by the convocation, 3 by the teaching staff, 2 by members of parliament, 4 by the governor, and 3 by the governor on the recommendation of the council; the dir. of education and the chairman of the professorial bd. are *ex-officio* members. The offices of chancellor and vice-chancellor may be filled by election by and from the members of council or by the appt. of persons not members of council. The governor is *ex-officio* visitor of the univ. The chancellor is elected every 2 yrs. and is a member *ex-officio* of every fac. and of every bd. or cttee. within the univ. The vice-chancellor is the chief executive officer of the univ. Convocation consists of all grads. of the univ. and members of council and teaching staff, its chief officers being the warden and vice-warden, who are elected every 2 yrs. Its main functions are to elect members of council and of a standing cttee. which considers proposed new statutes or amendments to existing statutes. The professorial bd. is the main academic body and exercises a general supervision over all matters concerning the studies and exams. of the univ. The facs. exercise similar functions but are subordinate to the bd.

**INCOME.** State govt. grant for 1959–60 : £A343,000, commonwealth grant : £A201,687.

**FACULTIES AND DEANS (1961).** *Arts*, Prof. J. R. Elliott (classics); *comm.*, Prof. G. G. Firth; *educn.*, Prof. C. D. Hardie; *engin.*, Prof. A. R. Oliver; *law*, Prof. N. C. H. Dunbar; *sci.*, Dr. A. G. Fenton (phys.).

**UNIVERSITY PRECINCT.** The univ. at present operates on 2 sites—Queens Domain and Sandy Bay. Bldgs. at present under constrcn. at Sandy Bay will on completion consolidate the whole univ. on that site.

**LIBRARY.** 117,000 vols.

**LABORATORIES.** Bot., chem., engin. (civil, electr., mech.), geol., phys., zool. Testing plant in engin. dept.

**ADMISSION.** See Appendix II.

*Admission of non-members.* Any person, whether matriculated or not, may enrol for univ. classes provided he can satisfy prerequisites (if any).

**PUBLIC EXAMINATIONS.** Matric. ; music (held in conjunction with other Australian univs.). See also Appendix II.

**FIRST DEGREES.** 3 yrs.—BA (4th yr. for hons.), BSc (4th yr. for hons.), BEc (4th yr. for hons.), BCom ; 4 yrs.—BSc (Applied), BSc (Applied) (hons.), BE, BE (hons.), BFor ; 5 yrs.—LLB, LLB (hons.). Degree course in agric. begins in 1961.

Hons. schools in following subjs. : BA—classics, Engl., French, German, hist., philos., pol. sci., psychol. ; BSc—bot., chem., geog., geol., maths., phys., zool. ; BEc—econ. BE is gen. engin. degree with specialization in final yr. in chem., civil, electr. or mech. engin. (in final yr. hons. candidates do addl. work in chosen field and take addl. exam.). Hons. in law and appl. sci. awarded for proficiency in pass course and, in case of law, on submission of satisfactory essay. Hons. not awarded in BCom (but accty. must be included as major subj.).

*Degrees Completed Elsewhere.* The univ. provides 1st yr. of courses leading to degrees in med., dent. and agric. sci. (Adel. or Melb.), vet. sci. (Q'ld. or Syd.).

**HIGHER DEGREES.** Open to bachelors of 1 yr.'s standing—MEngSc ; 2 yrs.—MA, MSc, MSc(Applied), LI.M, MEc, MCom, PhD (engin. and sci.) ; 3 yrs.—PhD (arts), ME ; 6 yrs.—DSc ; 7 yrs.—DLitt, LLD ; to masters of 3 yrs.' standing—LLD. All higher degrees open to grads. of other univs. DLitt, LLD, DSc also awarded as honorary degrees.

**DIPLOMAS.** Pub. admin., 3 yrs. ; educn. (postgrad.), 1 yr. *Dipls. of Affiliated Schools* : 6 yrs., mech., electr., civil engin., appl. chem., metall., mining (awarded by Hobart & Launceston Technical Colls. and Mount Lyell Sch. of Mines).

6 yrs., archit. ; 4 yrs., art, comml. art (Hobart & Launceston Technical Colls.). 3 yrs., teachers' dipl. in art (Hobart Technical Coll.).

**CERTIFICATES.** Educn., 2 yrs.

**RESEARCH.** Facilities for postgrad. res. available in all facs. *Research Report* publd. annually.

**EVENING CLASSES.** Comm. and econ. students may gain first degrees by pt.-time study. Sufficient evg. courses also given in arts to enable pt.-time students to complete BA or BA hon.

**STUDY LEAVE.** Members of staff are eligible to apply for 1 yr.'s study leave on the termination of 6 yrs.' service.

**FEES.** Matric., £A3, *ad eundem statum*, £A2. Admission to degrees : bachelor's, £A5 : 5s. ; master's, £A15 : 15s. ; doctor's, £A26 : 5s. ; degree courses (full-time) in arts (3 yrs.), £A170 ; arts (hons.) (4 yrs.), £A226 ; sci. (3 yrs.), £A235 ; sci. (hons.) (4 yrs.), £A315 ; sci. (appl.) (4 yrs.), £A293 ; engin. (4 yrs.), £A378 ; law (5 yrs.), £A338 ; comm. (3 yrs.), £A198 ; econ. (3 yrs.), £A198 ; econ. (hons.) (4 yrs.), £A254.

**ACADEMIC YEAR.** March to Dec., with 3 teaching terms of 9, 10, 9 weeks respectively, and 1 exam. term of 4 weeks.

**UNDERGRADUATE AWARDS.** 10 entrance scholps., value £A26 p.a. plus refund cost of books, and travel allowance. Country students eligible to apply for boarding allowance. Up to 110 scholps.

awarded by cwth. govt. (see p. 12) value payment of fees ; living allowance up to £A338 also payable subject to means test.

**POSTGRADUATE SCHOLARSHIPS AND GRANTS.** Research scholps., £A500-£A550 p.a. ; commonwealth postgrad. scholps., £A700 p.a. ; I.C.I.A.N.Z. res. fellowship (from a grant made by the Imperial Chemical Industries of Australia and New Zealand Ltd.), £A1100 p.a. ; General Motors Holdens scholp., £A800-£A1200 p.a. ; Australian Titan Products res. fellowship in inorg. chem., £A1200.

**APPOINTMENTS BOARD.** Establishment of appts. bd. is provided for by statute, but operations are suspended.

**GRADUATES' ASSOCIATION.** Tasmanian Women Graduates' Assocn.

**STUDENTS' RESIDENCES.** See Affiliated Residential Colleges, *above*.

**STUDENTS' UNION.** Tasmania Univ. Union.

**PUBLICATIONS.** *Univ. Calendar* (March, 10s.) ; *Matriculation Manual* (March, 6s.) ; *Details Degree Exams.* (Sept., 3s.) ; *Univ. Gazette* (terminally) ; *Univ. of Tas. Law Review* (annually, 10s. 6d.) ; *Research Report* (annually) ; students' paper, *Togatus* (monthly) ; *Report of 1955 Royal Commission on University of Tasmania*, Govt. Printer, Hobart.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Total value of all benefactions received : £A4820.

**MAJOR BUILDING DEVELOPMENTS.** *Approaching completion* : engin. and chem. bldgs.

**RETIREMENTS.** Prof. A. L. McAulay (phys.) ; Prof. V. V. Hickman (zool.).

**RESIGNATIONS.** G. W. Bartholomew (law), apptd. lectr. in law, Khartoum ; Dr. E. M. Campbell (pol. sci.), apptd. lectr. in law, Syd. ; P. G. Nash (law), to private practice ; R. P. Roulston (law), apptd. sr. lectr. in law, Syd. ; A. Treloar (Warden, Hytten Hall), apptd. master, Wright Coll., N.E.

**DEATHS.** Emer. Prof. C. S. King (prof. of hist., 1935-56) ; Emer. Prof. A. Burn (prof. of engin., 1920-56, vice-chancellor, 1945-49).

**HONORARY DEGREES.** LLD—Sir Douglas Copland, principal, Admin. Staff Coll.

Distribution by Faculties. *Arts*, 392 ; *comm.*, 212 ; *educn.*, 247 ; *engin.*, 88 ; *law*, 77 ; *sci.*, 300. Total : 1316.

*Included in the figures above are :—*

Postgraduate students, 56.

New admissions, 381.

Students from other countries, 57. (Countries from which largest numbers came : Fiji, 26 ; Fed. of Malaya, 9 ; India, 6).

**DEGREES AWARDED (1959).** *Arts* : BA, 50 ; BA (hons.), 9 ; MA, 6. *Econ.* : BCom, 9 ; BEc, 6 ; BEc (hons.), 1. *Engin.* : BE, 5 ; BE (hons.), 3. *Law* : LLB, 6 ; LLB (hons.), 2. *Sci.* : BSc, 20 ; BSc (hons.), 10 ; MSc, 3 ; PhD, 5. Total number of first degrees awarded, 121.

**DIPLOMAS AWARDED (1959).** DipEd, 28 ; DipPubAdmin, 1.

**CERTIFICATES AWARDED (1959).** CertEd, 14.

## Statistics

### STUDENT NUMBERS, 1960

	Full-Time	Part-Time	External
Men . . .	454	382	98
Women . . .	249	102	31
Total	703	484	129

# UNIVERSITY OF WESTERN AUSTRALIA\*

Founded 1911

Postal Address : Nedlands, Western Australia  
Cables and Telegrams : University of Western Australia, Nedlands  
Telephone : Perth 86.2481 (11 lines)

VISITOR—H.E. THE GOVERNOR OF WESTERN AUSTRALIA, Lt.-Gen. Sir CHARLES H. GAIRDNER,  
KCMG, KCVO, CB, CBE, Hon. DLitt  
CHANCELLOR—Sir ALEXANDER J. REID, CMG, ISO, JP, Hon. LL.D *Melb.*, BA  
PRO-CHANCELLOR—T. L. ROBERTSON, PhD *Lond.*, MA DipEd  
VICE-CHANCELLOR—S. L. PRESCOTT, OBE, MSc *Manc.*  
REGISTRAR—A. J. WILLIAMS, BA DipEd  
ACCOUNTANT—R. M. FLETCHER  
LIBRARIAN—L. JOLLEY, MA *Lond.*, FLA

## TEACHING STAFF

[† = Part-Time]

### Agriculture

Underwood, E. J., PhD *Camb.*, BSc(Agric),  
FAA Prof., Dir.  
..... (Soil Sci.) Prof.  
Millington, A. J., DSc(Agric) Reader  
Schapper, H. P., MCom N.Z., PhD Reader  
Moir, R. J., BSc(Agric) Reader  
Drover, D. P., BSc *Syd.*, PhD Sr. Lectr.  
Parker, C. A., BSc(Agric) PhD Sr. Lectr.  
..... (Farm Management) Sr. Lectr.  
4 Visiting Lectrs., 1 Lab. Manager, 8 Lab.  
Techns., 6 Lab. Assts., 1 Field Asst.,  
5 Tech. Assts.

**Anatomy**, see Medicine

**Biochemistry**, see Medicine

### Botany

Grieve, B. J., MSc *Melb.*, DIC, PhD *Lond.*,  
FLS Prof.  
Brittan, N. H., BSc PhD *Durh.* Sr. Lectr.  
Baird, Alison M., MSc Sr. Lectr.  
..... Sr. Lectr.  
Smith, G. G., MSc Lectr.  
Johnson, Eileen R. L., MA *Tor.*, BSc *Adel.* Temp. Lectr.  
1 Visiting Lectr., 2 Lab. Techns., 3 Lab. Assts.

### Chemistry

Bayliss, N. S., BA *Oxon.*, BSc *Melb.*, PhD  
*Calif.*, FRACI, FAA  
(Phys. C.) Prof., Chairman  
White, D. E., MSc *Syd.*, DPhil *Oxon.*,  
FRACI (Org. C.) Prof.

Cole, A. R. H., DPhil *Oxon.*, BSc Reader  
Elliott, G. A., MSc PhD *Lond.*  
(on leave) Sr. Lectr.  
Jefferies, P. R., PhD *Sheff.*, MSc Sr. Lectr.  
Bevan, D. J. M., MSc *Melb.*, PhD *Lond.*  
Bottomley, G. A., PhD *Leeds* Sr. Lectr.  
Cannon, J. R., MSc *Melb.*, PhD *Camb.*  
McLean, A. D., BSc PhD *Chic.* Sr. Lectr.  
Levin, Barbara J., MSc N.Z. Lectr.  
..... Lectr.  
1 Lab. Manager, 2 Grad. Assts., 6 Lab.  
Techns., 4 Lab. Assts., 1 Sr. Demr.

### Classics and Ancient History

Austin, M. N., MA *Oxon.*, BD *Lond.* Prof.  
Weaver, P. R. C., MA N.Z. & *Camb.* Lectr.  
Jones, J. R., BA *Camb.* (on leave) Lectr.  
Jory, E. J., BA *Lond.* Lectr.

### Dental Science

Sutherland, K. J. G., MB BS MDSc *Melb.*,  
FDSRCSed Prof.  
Taylor, R. L., MDS *Syd.* Reader  
Cock, D. J., MDSc *Melb.* Reader  
Lewis, A. J., DDS *Northwestern*, BDS  
Stevenson, T. S., BDS Sr. Lectr.  
Williamson, J. J., BDS *Q'ld.*, FDSRCS Sr. Lectr.  
6 Visiting Lectrs., 2 Lab. Techns., 1 Photographer

### Economics

Bowen, I. I., MA *Oxon.* Prof.

Lydall, H. F., BA *S.A.*, MA *Oxon.*  
(Econ. Stats.) Reader  
Dowsett, W. T., MEd *Syd.* Sr. Lectr.  
Gentili, J., DPolSc *Univ. Econ. Inst. (Venice)*,  
FRMetS (Econ. Geog.) Sr. Lectr.  
Harris, Merab, PhD *Lond.*, MA Sr. Lectr.  
Oxnam, D. W., MA *N.Z.* (on leave) Sr. Lectr.  
Kerr, A. McB., BSc(Econ) *Lond.*, MA PhD  
Sr. Lectr.  
Subramaniam, V., BSc MA *Madr.*,  
PhD *A.N.U.* (Govt.) Sr. Lectr.  
Cook, A., BA Lectr.  
Peters, R. W., BA Lectr.  
2 Visiting Lectrs.†

**Education**

Sanders, C., PhD *Lond.*, MA DipEd, FBPS  
(on leave) Prof.  
Gray, R. K., BSc(Ped) *McG.*, MA *N.Y.*  
(on leave) (Phys. E.) Sr. Lectr.  
Merrilees, D., BSc *Syd.* Sr. Lectr.  
Wheeler, D. K., PhD *Lond.*, BA DipEd Sr. Lectr.  
Priest, T. A., BA *N.Z.*, EdB *Glas.* Sr. Lectr.  
Anderson, A. W., BA BEd Lectr.  
Russell, Gwendoline M., DipPhysEd  
*Lond.* (Phys. E.) Lectr.  
Start, K. B., BSc *Manc.* (Phys. E.) Lectr.  
7 Visiting Lectrs.

**Engineering**, see below**English**

Edwards, W. A., MA *Camb.* Prof.  
King, A., MA *Oxon.* Reader  
Burrows, L. R., MA *Sheff.* Sr. Lectr.  
Bradley, Mrs. Jean D., MA *Melb.* Sr. Lectr.  
Williams, Mrs. Helen B. W., DU *Paris*,  
MA *Oxon.*, BA Lectr.  
Seddon, G., BA *Melb.* Lectr.  
Parsons, P. E., MA *Camb.*, BA Lectr.  
Gibbons, T. H., BA *Lond.*, MA Lectr.  
Gibbon, F. P., BA *Nott.* Lectr.  
1 Lectr.†

**French**

..... Prof.  
Tauman, L. LèsL DU *Aix-Marseilles*,  
DèsL *Paris* Reader, Hd. of Dept.  
Randall, Jean, MA *Melb.* Sr. Lectr.  
Morrow, Christine, DU *Toulouse*, BA Lectr.  
Simon, C. J., LèsL *Paris* Lectr.

**Geology**

Prider, R. T., PhD *Camb.*, BSc, FGS Prof.  
Glover, J. J. E., PhD *Calif.*, BSc Sr. Lectr.  
Balmé, B. E., BSc Sr. Lectr.  
Coleman, P. J., BSc PhD Sr. Lectr.  
McCall, G. J. H., DIC, BSc *Lond.* Sr. Lectr.  
Kay, J. G., BSc Lectr.  
1 Sr. Demr., 6 Lab. Techns.

**German**

Benr, M. B., MA *Lond.*, BA  
Reader, Hd. of Dept.  
Wolff, J. M., BA *Birm.* Lectr.  
..... Lectr.  
Francas, Bianca J., BA (Sci. Lang.) Lectr.

**History**

Alexander, F., MA *Melb.* & *Oxon.* Prof.  
Legge, J. D., MA *Melb.*, DPhil *Oxon.* Reader  
Crowley, F. K., MA PhD *Melb.*,  
DPhil *Oxon.* Sr. Lectr.  
Orr, R. R., MA *N.Z.*, PhD *Lond.* (Pol.) Sr. Lectr.  
Schoffer, I., PhD *Amst.* Lectr.  
Gillion, K. L. O., PhD *A.N.U.*, MA *N.Z.*,  
AM *Fletcher* Lectr.  
1 Lectr.†

**Italian**

Vanzetti, F. †Lectr.

**Law**

Beasley, F. R., ED, BA *Oxon.*, LLB *Syd.*,  
LLD *Melb.* Prof.  
Braybrooke, E. K., LLM *N.Z.* & *Col.* Reader  
Allan, D. E., MA *Camb.* Sr. Lectr.  
Edwards, E. J., BA BL *Rangoon*, LLB Sr. Lectr.  
McCall, I. W. P., LLB Sr. Lectr.  
..... Sr. Lectr.  
8 Visiting Lectrs.

**Mathematics**

Blakers, A. L., AM PhD *Prin.*, BSc Prof.  
Levey, H. C., BSc MA *Melb.*, PhD *Manc.* Reader  
Silberstein, J. P. O., BA *Melb.*, PhD *Camb.* Reader  
..... Reader  
Gamblen, F., MA *Camb.*, MSc DipEd Sr. Lectr.  
Storer, R., MSc *Brown*, BA BSc DipEd Sr. Lectr.  
..... Sr. Lectr.  
Bowen, E. W., MA BSc *Melb.* (on leave) Lectr.  
Wynter, P. E., BA MSc *Melb.*,  
DPhil *Oxon.* Lectr.  
Briner, H., PhD *Munich* Lectr.  
Hume, Beryl, BSc Lectr.  
Falk, W. S., BA *Melb.* Lectr.  
..... Lectr.  
1 Grad. Asst.

**Medicine**, see below**Music**

Callaway, F., MusBac *N.Z.*, FTCL Prof.  
Jones, T. A., MA *Syd.*, LMus Sr. Lectr.  
Tunley, D. E., BMus *Durh.* Lectr.

**Philosophy**

..... Prof.  
Grave, S. A., MA *N.Z.*, PhD *St. And.* Sr. Lectr.

Hutchings, P. A., MA *N.Z.* Lectr.  
 Franklin, R. L., MA LL.M. *Melb.* Lectr.

### Physics

Birkett Clews, C. J., BSc PhD *Lond.*, FIP Prof.  
 ..... (Theoret. Phys.) Prof.  
 Shearer, J., MSc *Melb.*, BA, FIP Reader  
 Williams, S. E., MSc *Syd.*, PhD *Brist.*,  
 FIP Sr. Lectr.  
 Swan, J. B., MSc *Melb.*, PhD Sr. Lectr.  
 Jeffery, P. M., MSc PhD Sr. Lectr.  
 Lucas, L. N. D., DIC, MSc PhD *Lond.*,  
 FIP Sr. Lectr.  
 ..... Sr. Lectr.  
 Anderson, R. A., PhD *Glas.* Lectr.  
 York, Elsie, BSc Lectr.  
 Compston, W., PhD Lectr.  
 Maslen, E. N., BSc DPhil *Oxon.* Lectr.  
 Greenhalgh, D., BSc PhD Lectr.  
 Thies, H. H., MSc *Melb.* Lectr.  
 1 Lab. Manager, 9 Lab. Techns., 1 Lab. Asst.

**Physiology**, see Medicine, below

**Politics**, see Hist.

### Psychology

Walker, K. F., MA DipAnth *Syd.*,  
 PhD *Harv.*, FBPsS Prof.  
 Marshall, A. J., PhD *Lond.*, FBPsS Reader  
 Taft, R., BA *Melb.*, AM *Calif.*, PhD *Calif.*,  
 FBPsS Reader  
 Berndt, R. M., MA DipAnth *Syd.*,  
 PhD *Lond.* Reader  
 Richardson, A., PhD *Lond.*, BA Sr. Lectr.  
 Yates, A. J., BA *Liv.*, PhD *Lond.* Sr. Lectr.  
 Lawrence, P., MA PhD *Camb.* Sr. Lectr.  
 Drummond, Grace A., MA *Lond.*, DipEd  
*Melb.*, BSc Lectr.  
 Lumsden, J., BA *Syd.* Lectr.  
 Star, K. H., BA *Melb.*, PhD *Lond.* Lectr.  
 Livesey, P. J., MA BSc Lectr.  
 1 Lectr., 2 Grad. Assts., 2 Lab. Techns.

### Zoology

Waring, H., MSc *Liv.*, DSc *Aberd.*, FAA Prof.  
 Hodgkin, E. P., BSc *Manc.*, DSc  
 ..... (on leave) Reader  
 Kirk, R. L., MSc *Birm.*, DSc Reader  
 Main, A. R., BSc PhD Sr. Lectr.  
 Shield, J. W., MSc Sr. Lectr.  
 Zwicky, K. T., PhD *Zur.* Sr. Lectr.  
 Finch, Mrs. Mary E., MSc Lectr.  
 2 Grad. Assts., 1 Lab. Manager, 6 Lab.  
 Techns., 2 Lab. Assts.

## ENGINEERING

### Civil Engineering

Cooper, K. L., MA *Oxon.*, BSc *Oxon.* &  
*W.Aust.* Prof.  
 Espie, J. R., BE Testing Officer, Sr. Lectr.  
 Glick, G. L., BE Sr. Lectr.

Clegg, B., BE Sr. Lectr.  
 Hondros, G., BE Sr. Lectr.  
 Massey, P. C., BE (on leave) Sr. Lectr.  
 Silvester, R., BA BE Sr. Lectr.  
 Sacks, R., BSc *Cape T.* Sr. Lectr.  
 Taylor, R. J., BE *Q'ld.* Lectr.  
 Laurie, J. J., BE BSc *Syd.* Lectr.  
 Smith, B. G. A., BE Temp. Lectr.  
 1 Lectr., 2 Visiting Lectrs., 5 Lab. Techns.,  
 5 Lab. Assts.

### Electrical Engineering

Billings, A. R., BSc(Eng) PhD *Lond.* Prof.  
 Taplin, K. W., BE Reader  
 Bundell, J. H., BE Sr. Lectr.  
 Fall, J. V., BE Sr. Lectr.  
 Steven, D. H., BE *Sheff.* Lectr.  
 Mills, J., BE Lectr.  
 1 Grad. Techn., 3 Lab. Techns., 1 Lab. Asst.

### Mechanical Engineering

Allen-Williams, D. J. F., PhD *Camb.* Prof.  
 Lutz, G. G., BE Sr. Lectr.  
 Minchin, R. S., BE Sr. Lectr.  
 Phillips, J. R., BMechE PhD *Melb.* Sr. Lectr.  
 Cole, J. A., MSc *Manc.* Sr. Lectr.  
 Hunka, J., DE *Lodz* Sr. Lectr.  
 Hemingway, E. W., DIC, BSc(Eng) *Lond.* Sr. Lectr.  
 Wager, J. G., BE Lectr.  
 2 Visiting Lectrs., 7 Lab. Techns.

## MEDICINE

### Anatomy

Sinclair, D. C., MA *Oxon.*, MD *St.And.* Prof.  
 Mortimer, K. E., BA *S.A.*, MB BS *Lond.* Sr. Lectr.  
 Blumer, W. F. C., MA BM BCh *Oxon.* Sr. Lectr.  
 Glasgow, E. F., MB BCh BAO *Belf.* Lectr.  
 ..... Lectr.  
 2 Lab. Techns.

### Biochemistry

Lugg, J. W. H., DIC, PhD *Lond.*, DSc,  
 FRIC Prof.  
 Oliver, I. T., MSc *Melb.*, PhD *Sheff.* Sr. Lectr.  
 Scutt, P. B., MSc *Melb.* Lectr.  
 Ketterer, B., PhD *Camb.*, MSc Lectr.  
 1 Grad. Asst., 3 Lab. Techns., 2 Lab. Assts.

### Child Health

Macdonald, W. B., MD *Melb.* Prof.  
 Lewis, I. C., MD ChB *Edin.* Sr. Asst.

### Medicine

Saint, E. G., MD BS BSc *Durh.*, FRCP Prof.  
 Lefroy, R. B., MA *Oxon.*, MB BS *Melb.* Sr. Asst.  
 ..... Jr. Asst.

**Microbiology**

Stanley, N. F., DSc *Adel.* Prof.  
 Perret, C. J., MA *Camb.*, PhD *Lond.* Sr. Lectr.  
 May, J. W., MSc *Adel.* Lectr.  
 2 Grad. Assts., 1 Sr. Techn., 1 Lab. Techn.,  
 3 Lab. Assts.

**Obstetrics and Gynæcology**

King, G., OBE, FRCS, FRCOG Prof.  
 Martin, J. D., MD *Lond.* Sr. Asst.

**Pathology**

ten Seldam, R. E. J., MD *Ley.* Prof.  
 Barter, R. A., MD *Adel.* Sr. Lectr.  
 Walters, N. I. M., MB BS *Adel.* Sr. Lectr.

..... Lectr.  
 1 Photographer, 2 Lab. Techns., 4 Lab. Assts.

**Physiology**

Simmonds, W. J., BSc MB BS *Q'ld.*,  
 DPhil *Oxon.* Prof.  
 Collin, R., MSc MB BS (on leave) Sr. Lectr.  
 Kaldor, I., MD *Bud.* Sr. Lectr.  
 Bentley, P. J., BSc Lectr.  
 ..... Tutor  
 4 Lab. Techns., 2 Grad. Assts., 3 Lab. Assts.

**Surgery**

Lewis, C. W. D., BSc MB MCh *Wales*,  
 FRCS Prof.  
 Brockis, J. G., MB ChM *Leeds*, FRCS Sr. Asst.  
 Paton, R., MB BS *Adel.*, FRCS Sr. Asst.

**ADMINISTRATIVE AND OTHER STAFF**

UNIVERSITY OFFICE. Asst. Registrars : D. D. Dunn, BA *Melb.*, LLB ; J. A. Crawley ; G. A. Bartlett, MA ; N. T. Bodycoat, BA. Guidance & Appts. Officer : R. Flecker, BSc (on leave) ; Actg. Guidance & Appts. Officer : J. W. Winfield, BA. Asst. Accountant & Property Officer : N. F. Devlin. Actg. Sec. of Public Exams. : Enid M. Keen. Temp. Asst. Guidance & Appts. Officer : J. A. Coventry, BA. Sub-Accountant : K. V. Benwell. Asst. Property Officer : R. M. McLeish. Sr. Admin. Assts. : L. A. W. Richards, BA DipCom, also Clerk of Convocation ; Mrs. Cherrell Guilfoyle, BA *Lond.*

LIBRARY. Sr. Library Asst. : H. Kathleen Edmiston, BA.

ADULT EDUCATION. Dir. : T. H. Roberts, MA *Oxon.*, BA. Dep. Dir. : J. Birman, BA. Tutor-Organizers : I. Hanna, BA *Melb.* ; B. Parke, BA *N.Z.* Sec. : B. Newton. Actg. Librarian : Valerie Lewis, BA *Syd.*

UNIVERSITY PRESS. Manager and Sec. : F. H. Beaumont.

**RESIDENTIAL COLLEGES WITHIN THE UNIVERSITY**

ST. CATHERINE'S COLLEGE (tel. : 86.5847). For women. Warden—.....

ST. GEORGE'S COLLEGE (tel. : 86.1532). For

men. Warden—J. H. Reynolds, MA *Adel.* & *Oxon.*

ST. THOMAS MORE COLLEGE (tel. : 86.5080). For men. Rector—J. R. Boylen, BA *Dub.*, PhD *Rome.*

**AFFILIATED SCHOOLS**

PERTH TECHNICAL COLLEGE, St. George's Tce., Perth (tel. : 21.7158), founded 1900. Principal—A. P. F. Farrington. Qualifying courses in chem., maths., appl. maths., phys. and geol. for univ. degree.

SCHOOL OF MINES, Kalgoorlie, W.A. (tel. : Kalgoorlie 80), founded 1902. Principal—O. R. A. Hobson, BSc. Qualifying courses in chem., geol., maths., appl. maths., phys. for univ. degree. Full 4th & 5th yrs. of course for BEng (Mining).

TEACHERS' COLLEGE, Claremont, W.A. (tel. : 3.2154), founded 1902. Principal—N. G. Traylen, MA DipEd. Professl. courses for BEd and DipEd.

TEACHERS' COLLEGE, Graylands, W.A. (tel. : F4737), founded 1955. Principal—W. H. Halliday, MA DipEd. Professl. courses for BEd and DipEd.

WESTERN AUSTRALIAN COLLEGE OF DENTAL SCIENCE, Wellington St., Perth (tel. : 21.2667, 23.2631), founded 1934. Dean—Prof. K. J. G. Sutherland. Some courses for BDS.



## GENERAL INFORMATION

In 1909 the govt. of W. Australia apptd. a royal commission with Sir John Winthrop Hackett, who subsequently became first chancellor of the univ., as chairman. Following the commission's report, the Univ. of Western Australia was endowed by an act of the state legislature which recd. the royal assent on Feb. 16, 1911. The first senate was gazetted on Feb. 13, 1912. Teaching began on March 31, 1913, and the formal inauguration of the univ. took place on Oct. 20, 1913.

At the time of its establ., the univ. had 3 facs. — arts, sci. and engin. Law was added in 1927 and agric., originally a dept. of the fac. of sci., became a sep. fac. in 1937. In 1946 the fac. of dent. sci. was establ., and in 1947 the fac. of educn. (from 1916 till 1947 educn. was under the fac. of arts). Economics, a dept. of the fac. of arts since 1914, was establ. as a sep. fac. in 1954 and this was followed by the establ. of the fac. of med. in 1956.

From 1913 to 1930 the univ. was located in temp. bldgs. in Irwin St., Perth, but following a bequest under the will of Sir John Winthrop Hackett permanent bldgs. were erected on the present site of 165 acres at Crawley-Nedlands on a bay of the Swan estuary about 3 mls. from Perth.

St. George's Coll., the first residential coll. within the univ., which was built and endowed by the Anglican church from funds bequeathed by Sir John Winthrop Hackett, was opened in 1931. A univ. hostel for men students and a women's coll. were opened in 1946. The women's coll., renamed in 1959 St. Catherine's Coll., now occupies a new bldg. opened in 1960. St. Thomas More Coll., establ. by the Roman Catholic Church, was opened in 1955.

Perth, the capital city of W. Australia, has a pop. of 393,000. The univ. serves the whole state of W.A. (pop. 726,000).

**CONSTITUTION.** The admin. of the univ. is vested in a senate of 21 members, of whom 6 are nominated by the govt. and 7 are *ex-officio* or co-opted members. A second body with mainly elective and revisionary functions is known as convocation. Convocation elects 6 members of the senate. The teaching staff elects 2 members.

**INCOME (1959).** £A1,157,484 (state govt., 58.4 per cent.; commonwealth govt., 32.2 per cent.; other sources, 9.4 per cent.).

**FACULTIES AND DEANS.** *Agric.*, Prof. E. J. Underwood; *arts*, Prof. K. F. Walker (psychol.); *dent. sci.*, Prof. K. J. G. Sutherland; *econ.*, Prof. I. I. Bowen; *educn.*, Prof. C. Sanders; *engin.*, Prof. D. J. F. Allen-Williams (mech. engin.); *law*, Prof. F. R. Beasley; *med.*, Prof. G. King (obstet.); *sci.*, Prof. R. T. Prider (geol.).

**LOCATION OF DEPARTMENTS.** Dental Coll.: Wellington St., Perth (tel.: 21.2667); Med. Sch.: Victoria Sq., Perth (tel.: 23.1321).

**LIBRARY.** 176,297 vols.

**LABORATORIES.** Agric., anat., biochem., bot., chem., dent., geol., engin., microbiol., pathol., phys., physiol., psychol., zool.

**MUSEUMS.** Agric., bot., pathol., geol., zool.

**FIELD STATIONS.** Agric., bot., zool.

**TEACHING HOSPITALS.** Royal Perth, King Edward Memorial, Princess Margaret, Perth Chest H., Heathcote Reception Home, Claremont Mental, Fremantle Public.

**ADMISSION.** See Appendix II.

**NON-MEMBERS OF THE UNIV.** Students not proceeding to a degree may be permitted to attend lectures in one or more subjects with the approval of the fac. concerned. Any such student who has not matriculated may be required to pass such prelim. exam. as the fac. may direct.

**PUBLIC EXAMINATIONS.** Sch. certs.: jr. and leaving; music and art of speech. Sch. cert. exams. held annually in Nov.; practical exams. in music and art of speech in May and between Aug. and Dec. For sec., see 'Admin. and Other Staff', *above*. Address: 3 Howard St., Perth (tel.: 21.9088). See also Appendix II.

**FIRST DEGREES.** 3 yrs.—BA pass (4th yr. for hons.) in classics, econ., Engl., French, German, hist., maths., philos., psychol. and anthropol.; BSc pass (4th yr. for hons.) in anat., biochem., bot., chem., geol., maths., microbiol., phys., physiol., psychol., zool. 4 yrs.—LIB pass and hons.; BEd pass and hons.; BEc pass and hons.; BSc(Agric) (5th yr. for hons.); BSc(For); BSurv pass and hons.; BMus pass and hons. 5 yrs.—BDSc pass and hons.; BE pass and hons. in civil, mech., electr., mining. 6 yrs.—MB BS.

**HIGHER DEGREES.** MA, MEd, MEc, MSc, MEngSc, MSc(Agric), 1 yr. from 1st degree with hons., 2 yrs. from 1st degree pass; LL.M, MDSc, 2 yrs. from 1st degree; ME, 3 yrs. from 1st degree pass or hons.; DLitt, 5 yrs. from 1st degree; LLD, 3 yrs. from 1st degree with hons., 5 yrs. from 1st degree pass; DSc, DSc(Agric), 6 yrs. from 1st degree; DEng, 3 yrs. from 1st degree with hons., 4 yrs. from 1st degree pass; DDSc, 4 yrs. from 1st degree; PhD (agric., arts, dent. sci., educn., engin., sci. only), 2 yrs. from 1st degree with hons., 3 yrs. from 1st degree pass. In arts and sci. a master's degree cannot be obtained in less than 5 yrs. from matric. All higher degrees involve res. To proceed to master's degree a student must graduate with hons. or pass a prelim. exam. All degrees open to grads. from other recognized univs. Master's degrees and the PhD are supervised degrees. The senate after report from prof. bd. or at its own discretion may confer any of its doctoral degrees as an honorary degree.

**EXTERNAL DEGREES.** Only BA may be taken wholly externally (most of the units for BEd,

HEC may also be taken) but only by residents of W. Australia who live outside Perth metropolitan area and in special circumstances by students who have done a major portion of their course and have gone to live in another state. Enrolment is restricted almost entirely to non-lab. subjs. except for lab. subjs. taken at affiliated instns., e.g. Sch. of Mines, Kalgoorlie. Tuition is given by correspondence and a circulating library service.

**EVENING OR LATE AFTERNOON CLASSES** are held in the facs. of arts, econ. and educn. only, and a full degree course may be undertaken by evg. study. Certain sci. and engin. classes may be taken in the evgs. at affiliated colls. but a full degree course is not available by evg. study in these facs.

**DIPLOMAS.** Educn., 1 yr. postgrad.; child and educn. psychol. (DCEP), 2 yrs.; clin. psychol. (DCP), 3 yrs.

**RESEARCH.** Postgrad. res. is carried out in most depts. and £A50,000 was provided for this purpose by the univ. res. grants cttee. In addn. in 1959 £A83,732 was obtained from outside sources for res. *Report* published annually.

**STUDY LEAVE.** At the end of every 6th yr. of continuous service, staff are entitled to study leave up to a max. of 12 mos. on full pay for a programme of study approved by the senate.

**FEES.** Matric., no fee. *Ad eundem statum*, £A1:1s. Admission to degrees: bachelors, £A3; masters, £A5; doctors, £A10. No lecture fees are charged except in facs. of dent. sci. and med., but there is a fac. service charge varying in amount up to £A37 p.a. approx., covering exam. fees, use of lab. equipment, hire of microscopes, loan of books from library, etc. Library deposit of £A2 also charged.

Students coming from overseas and neither normally nor likely to become permanently resident in Australia are charged an annual fee of £A50, in addition to all charges normally payable by W. Australians except in 2nd and higher yrs. of fac. of dent. sci., when the fee is £A25 p.a. Approx. fees for local dent. and med. students are: dent.—1st yr., £A73; 2nd yr., £A103; 3rd and 4th yrs., £A95 p.a.; 5th yr., £A70. Med.—1st yr., £A37; 2nd yr., £A95; 5th yr., £A79; 6th yr., £A79.

**ACADEMIC YEAR.** March to Nov. Three terms: 9 wks., 9 wks., 8 wks.

**ADULT EDUCATION.** Adult educn. work is controlled by the univ. adult educn. bd., which has its HQ. and library in Chancery House, Howard St., Perth. Its activities, which are state-wide and include extension lectures, orchestral concerts, drama, opera and ballet, are carried on in the metropolitan area of Perth as well as in country districts. In assocn. with other interested bodies the bd. runs an annual 'festival of Perth'.

**PRINCIPAL OPEN AWARDS.** Commonwealth govt. scholps. (see p. 12): all fees plus living allowance (means test); Hackett bursaries: all

fees plus living allowance (means test); govt. univ. exhibitions: £A40 or £A20 p.a.

**SCHOLARSHIPS FOR GRADUATES.** Commonwealth scholps., value £A600-£A750, tenable 1 yr., may be renewed to a max. of 4 yrs. (see p. 12); G.M.H. scholps. (2), value £A800-£A1200, tenable for 1 yr., in engin., sci. and comm.; I.C.I.A.N.Z. scholp., value £A1100 p.a., tenable for 2 yrs., in chem. or selected field.

**GUIDANCE AND APPOINTMENTS OFFICE.** Assists undergrads. and grads. to obtain employment, permanent or for vacations; also assists undergrads. with personal problems.

**STUDENT RESIDENCES.** Univ. Hostel (manager: W. J. Leader) (accomm. for 109 men); fee: about £A4:15s. per week. Enquiries regarding the men's hostel should be addressed to the manager. St. Catherine's Coll. provides accomm. for 49 women students at a cost of £A182 p.a. St. George's Coll.: 75 men; approx. £A210 p.a. St. Thomas More Coll.: 41 men; £A180 p.a. See also under 'Residential Colleges', above.

**STAFF RESIDENCES.** The univ. owns 49 houses which are let to staff members. In addn. there is a scheme which enables staff members to obtain a loan of up to £A6000 for purchase of a house.

**MILITARY AND AIR FORMATIONS.** Univ. regiment (tel.: 3.1966); univ. air squadron (tel.: 86.3095).

**STUDENT ORGANIZATION.** The student organization is known as the guild of undergrads. and the student bldg. which forms part of the Hackett memorial bldgs. is known as Hackett Hall. Annual sub. to the guild is £A7:17s., but in first yr. students pay an extra £A1:1s. registration fee. Pt.-time and external students pay a proportionate fee.

**ATHLETIC ACTIVITIES, ETC.** Three sporting ovals, lawn tennis courts, hockey and basket-ball grounds and a boatshed. There are 2 open-air theatres which are used for staging plays, concerts, films, etc., particularly by the adult educn. bd. in assocn. with the 'festival of Perth' cttee.

**PUBLICATIONS.** *Calendar*, published annually for local and exchange purposes and not for sale; a shortened edn. called the *Handbook* is sold annually for 6s.; *Orientation Handbook*, free to new students; *Univ. Gazette*, limited distribution free; *Public Exam. Manual*, 6s.; *A Guide to the Univ. of Western Australia*, Univ. of W. Aust. Press, 1954, 5s.; the *Pelican* (student newspaper). The sci. union is responsible for an annual magazine, *Scope*. Arts union publishes an annual magazine, *Westerly*. Individual publicns. are undertaken by Univ. of W. Aust. press, which controls the UNIV. BOOKSHOP and acts as a publishing organization (see below). The univ. has a publicns. cttee. which also sponsors publicns. The *Annual Law Review* (10s. 6d.), *Univ. Studies*

in *History and Economics* (occasl.) and the *Educand* (annual, 10s. 6d.) are publ. under the auspices of the cttee.

UNIV. OF WESTERN AUSTRALIA PRESS. Pub-

lishes works of learning, official univ. publicns. and such other educnl. works as the bd. of management may accept, provided that such works have the approval of the publicns. cttee. of the univ.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Mrs. M. B. Raine, £A20,000 for Raine Med. Res. Foundation; State Wheat Industry Res. Cttee., £A29,100 to Inst. of Agric.; Commonwealth Wheat Ind. Res. Council, £A25,000 for Inst. of Agric. bldg. extension fund.

(Total value of *all* benefactions received: £A207,660.)

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* biochem. *Approaching completion:* new engin. sch.; St. Catherine's Coll. (for women).

**NEW DEPARTMENTS AND CHAIRS.** Dept. of music; chair of French; res. chair of pharmacol.

**RETIREMENTS.** M. Evalyn Wood (librarian).

**RESIGNATIONS.** Dr. A. G. Mathew (obstet. & gynacol.), to private practice; Dr. C. R. Naylor (anat.); Dr. B. F. Glenister (geol.), apptd. asst. prof., Iowa; Dr. Ruth Armstrong (maths.); C. G. Plowman (asst. registrar), apptd. asst. registrar, Canberra U.C.

**DEATHS.** A. M. Stewart (reader in agric.).

**HONORARY DEGREES.** *MEd*—Mary O. Stevens, former member of senate.

## Statistics

### STUDENT NUMBERS, 1960

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	1457	1214
Women . .	394	433
Total . .	1851	1647

Distribution by Faculties. *Agric.*, 116; *arts*, 1565; *dent. sci.*, 67; *econ.*, 75; *educn.*, 346; *engin.*, 285; *law*, 106; *med.*, 298; *sci.*, 633; *vet. sci.*, 7. Total: 3498.

*Included in the figures above are:—*

Postgraduate students, 308.

New admissions, 988.

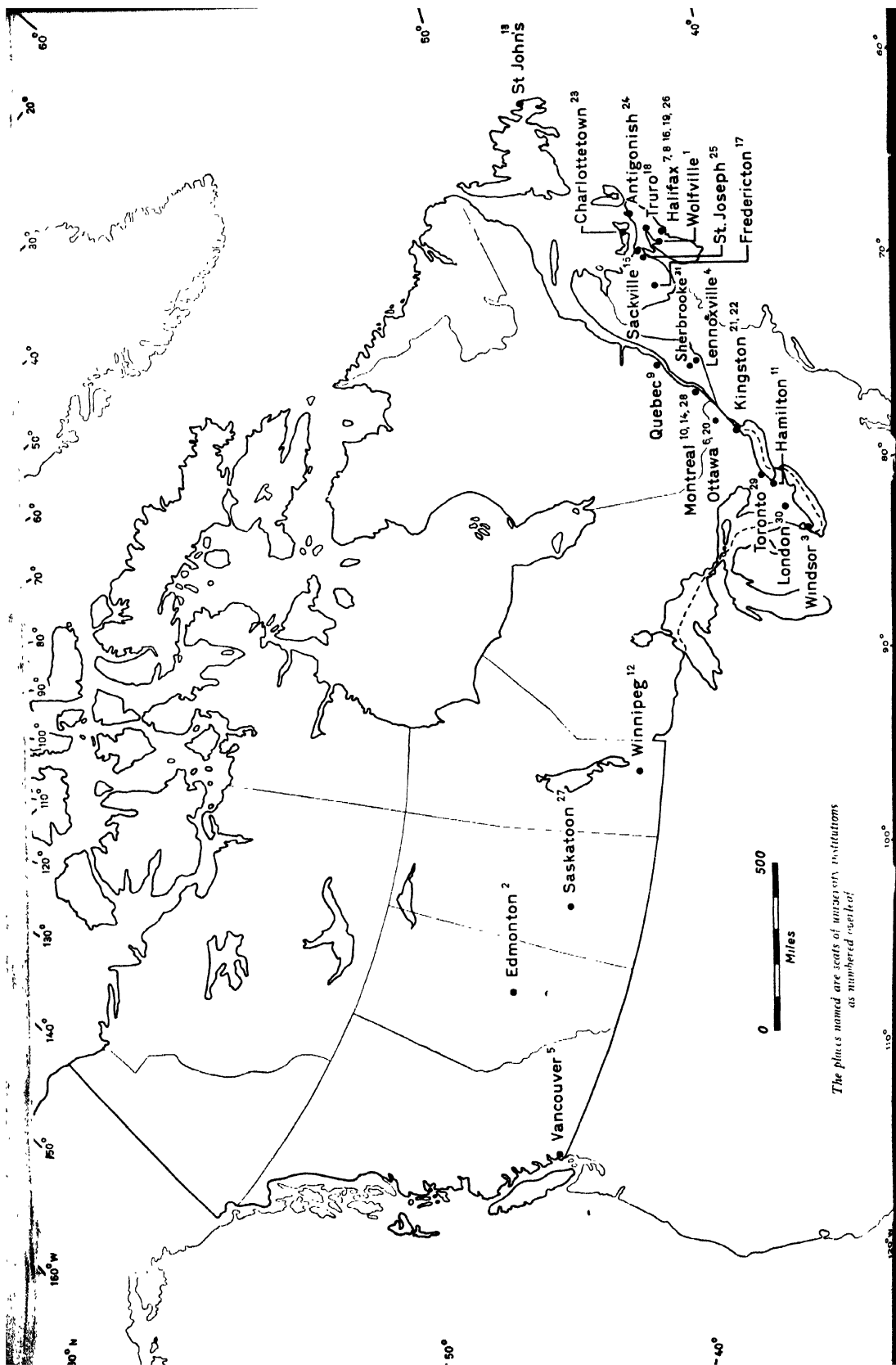
Students from other countries, 170. (Countries from which largest numbers came: Fed. of Malaya, 90; Singapore, 30).

**DEGREES AWARDED (1959).** *Agric.*: BSc(Agric), 4; BSc(Agric) (hons.), 3; MSc(Agric), 1. *Arts*: BA, 85; BA (hons.), 14; MA, 7; DLitt, 1. *Dent. sci.*: DDS, 6; DDS (hons.), 3; MDS, 1. *Econ.*: BE (hons.), 2. *Educn.*: BEd, 17; BEd (hons.), 8. *Engin.*: BE, 18; BE (hons.), 9; MEngSc, 2; ME(elec.), 1. *Law*: LLB, 16; LLB (hons.), 1. *Med.*: MB BS, 12; MB BS (hons.), 1. *Sci.*: BSc, 27; BSc (hons.), 26; MSc, 5; DSc, 1; BSc(For), 1. PhD (all facs.): 8.

**DIPLOMAS AWARDED (1959).** DipEd, 47; DCEP, 2.

# CANADA

- |    |   |    |   |
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| 2  | University of Alberta (p. 120)                  | 19 | Nova Scotia Technical College (p. 257)          |
| 3  | Assumption University of Windsor<br>(p. 135)    | 20 | University of Ottawa (p. 260)                   |
| 4  | Bishop's University (p. 141)                    | 21 | Queen's University at Kingston (p. 271)         |
| 5  | University of British Columbia (p. 144)         | 22 | Royal Military College of Canada<br>(p. 280)    |
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| 14 | University of Montreal (p. 230)                 |    | University of St. Michael's College<br>(p. 338) |
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| 17 | University of New Brunswick (p. 251)            | 30 | University of Western Ontario (p. 344)          |



# THE UNIVERSITIES OF CANADA

[Contributed by Dr. Watson Kirkconnell, President of Acadia University]

**HISTORY.** Higher education in French Canada began in Quebec City with the Collège des Jésuites, which was founded in 1635 (the year before Harvard) and in 1765 transferred its arts courses to the Séminaire de Québec (founded 1663). The latter institution became Laval University in 1852, integrating some eleven French *collèges classiques* that had been founded by that time. The University of Montreal hived off in 1920 and the two institutions to-day embrace a dozen faculties and over three score of classical colleges. Beyond the frontiers of Quebec, other French colleges arose in the Collège St-Boniface (1827), the University of Ottawa (1848) and St. Joseph's (1864).

It was nearly three decades after the English conquest of 1760, and at the height of the loyalist migration from the lost American colonies, that the first degree-granting college in the English-language tradition was set up in 1789 by provincial charter as King's College, in Windsor, Nova Scotia. A royal charter was granted by King George III in 1802. There followed in Fredericton a 'College of New Brunswick', with a provincial charter in 1800 but no graduates until 1828, in which year it was replaced by a King's College with a royal charter (and this in turn by a wholly secular University of New Brunswick in 1859). Both of these colleges at the outset were rather rigidly Anglican, as were also King's College, Toronto, set up in 1827, and Bishop's College (Lennoxville, P.Q.) in 1843; and the closing of their ranks to non-Anglicans led to a protesting epidemic of colleges under other denominational auspices: Acadia (Baptist, 1838), Queen's (Presbyterian, 1841), Victoria (Methodist, 1841), St. Mary's (Irish Catholic, 1841), Knox (Presbyterian, 1844), St. Michael's (Irish Catholic, 1852), St. Francis Xavier (Scotch Catholic, 1853), St. Dunstan's (Scotch Catholic, 1855), Woodstock College (Baptist, 1857; became McMaster University, 1887), Assumption (Irish Catholic, 1857) and Mount Allison (Methodist, 1858). Two other colleges, Dalhousie and McGill, had been set up in 1818 and 1821 respectively, the former endowed with the spoils of war and the latter with funds from the wealthy James McGill. For a time, Presbyterian influence prevailed at the one and Anglican influence at the other; but with the passage of time both became frankly secular but still administratively independent. In the western territories, the denominational pattern reproduced itself with St. John's College (Anglican, 1866), Manitoba College (Presbyterian, 1871) and Wesley College (Methodist, 1886), which until 1904 gave all of the instruction in

arts and science for the University of Manitoba (chartered in 1877). Additional church institutions appeared in due time in eastern Canada in Western University (Anglican, 1878) in London, Ontario, Mount St. Vincent College (Roman Catholic, 1925) in Halifax and Sir George Williams College (Y.M.C.A., 1929) in Montreal. The governmental Memorial University College was set up in St. John's, Newfoundland, in 1925 (Memorial University, 1949), and the independent Carleton College in Ottawa in 1942 (Carleton University, 1957).

Pressure of numbers has recently produced still further changes. Assumption College became the Assumption University of Windsor in 1956 and St. Michael's College, Toronto, the University of St. Michael's College in 1958. Two new Jesuit colleges, Regis and Ignatius, were affiliated with St. Mary's University in 1958. The Collège du Sacré Cœur, founded at Sudbury in 1914, became the University of Sudbury in 1956. Osgoode Hall Law School, Toronto, and the Royal Military College, Kingston, were granted degree-granting powers in 1957 and 1959 respectively. McMaster University became non-denominational in 1957. Other colleges and universities are in process of formation.

Out of these disparate elements, mostly denominational, there has evolved the highly complex university system of contemporary Canada. The process has followed three totally different methods in the three main areas: Atlantic, Central (Ontario-Quebec) and Western. In the Atlantic provinces, with a total population of considerably less than two millions, there are fifteen independent degree-granting colleges and universities, only three of which (New Brunswick, Memorial and Nova Scotia Technical College) receive substantial help from provincial governments. The only case of federation has been that of King's with Dalhousie in Halifax. There has also been notable co-operation in an arrangement by which Acadia, Dalhousie, Memorial, Mount Allison, St. Francis Xavier and St. Mary's teach the first three years of engineering and pass their students on to the Nova Scotia Technical College for the two final years of the course. While these six 'associated universities' are represented on the senate and the board of governors of the technical college and King's and New Brunswick are represented on the board, still other universities, such as St. Dunstan's, have their third-year engineering students accepted on a similar basis. In the two central provinces, with a population of nearly ten millions, there are again some fourteen degree-granting universities, but with a measure

of provincial support that seems fabulously generous to the starved insinuations of the Atlantic region. Structurally, there has been a notable amount of affiliation – Western Ontario has five affiliated colleges, Ottawa twelve, Montreal thirty-one and Laval thirty-eight; while Toronto has four federated arts colleges, three federated theological colleges and four affiliated colleges. In the four western provinces there has been strict legislation limiting degree-granting universities to one in each province, and this in each case is a state institution generously supported by the provincial treasury.

The more massive consolidations of academic activity have for the most part evolved through two modern tendencies: the proliferation of professional faculties and schools and the development of graduate schools based on research. Almost all Canadian universities, both French and English, began as 'classical colleges', with a curriculum in which the Latin and Greek literatures were central. Associated with these might be seminaries (or faculties of theology) and faculties of medicine and law. Even while the centre of gravity of the arts course moved steadily away from the ancient humanities towards the social sciences and the pure sciences, the needs of a whole regiment of new professions became recognized, under pressure, as requiring advanced training, preferably under university auspices. Such were agriculture, architecture, dentistry, pharmacy, forestry, library science, engineering, social work, veterinary science, pedagogy, music, home economics, fine arts, fisheries, journalism, public administration and a flock of others, each demanding a separate faculty, institute or 'school' for the training of its particular breed of specialist. This has accounted for much of the sheer increase in registration in Canadian universities. An advance in quality, rather than diversity, however, has come from the formation of large graduate schools on the model of those of the United States, themselves a derivative of the universities of Germany. Here research scientists and would-be professors now proceed to the PhD degree (or its equivalent) by means of graduate courses, fundamental investigation and a thesis project. Where Canadian scholars and scientists once went abroad for their advanced training, they are able by the middle of the 20th century to find most disciplines adequately served in their native land.

The junior college, largely an American invention, covers only the first two years of a BA course. It is almost unknown in Canada. Thus the only examples in the four Atlantic provinces are Prince of Wales College, in Charlottetown, Prince Edward Island, which also serves as the province's normal college for the training of elementary school teachers, and the Nova Scotia Agricultural College, Truro, which gives the first two years of a four-year professional course in agriculture, to be completed at McGill. With the rapid growth in population, moreover, the trend in Canada is for junior colleges to take over a full undergraduate curriculum. This has been done

since 1958 by Victoria College, Victoria, B.C., in affiliation with the University of British Columbia, and Mount Royal College, Calgary, which is now the University of Alberta in Calgary. These were the only junior colleges in these two provinces.

**CONSTITUTION.** As already noted, Canada's universities are of every conceivable sort, ranging from a simple unitary type like Bishop's to a complex giant like Laval, with eleven faculties, ten 'schools' and forty-one affiliated colleges. Toronto is still more varied, with ten faculties, ten schools or institutes, a federation of arts colleges, a federation of theological colleges, a group of affiliated colleges, a museum, a conservatory of music, and teaching privileges in five large hospitals.

The almost universal form of government is (a) a board of governors (regents or trustees), who have full financial authority, (b) a senate, which has full authority in matters of curriculum, examinations and degrees, acting on the advice of (c) a faculty, which has day-to-day responsibilities in matters of teaching, discipline and examinations and (d) a president or principal, appointed by the board as the permanent executive head of the institution. He will normally be chairman of the general faculty, chairman of the senate and an *ex-officio* member (never the chairman) of the board. He is thus the one personal point at which board, senate and faculty intersect. No salaried member of the university except the president may sit on the board. Canadian universities have almost invariably begun not as a fellowship of scholars but as a board of governors, endowed by an act of a provincial legislature with a variety of powers, including that of engaging a professorial staff. The board's financial control includes the making or confirming of academic appointments, the setting of salaries and fees, managing investments, erecting buildings, and the like. The customary balancing of forces is that only the president may recommend appointments or promotions but that only the board may confirm them.

**FRENCH-CANADIAN UNIVERSITIES.** The French-Canadian universities are unique in the British Commonwealth in being patterned after the French system, rather than after those of the United States or Great Britain. Basic to the structure are some scores of eight-year *collèges classiques*, in which the first four years are at a secondary school level and the last four years (following an 'immatriculation' examination) are at the college level and constitute the faculty of arts in Laval or the University of Montreal. The colleges are largely residential and are scattered throughout the province of Quebec, with at least one in every Roman Catholic diocese. The curriculum involves not merely French and English but Latin, Greek, mathematics and science and two concentrated years of Thomistic philosophy. The student attains his BA at the same age as in the Anglo-Canadian universities,

but as he has no academic specialization in any subject beyond about the sophomore year standard in the latter (except in philosophy), he finds a transfer to the other system very awkward. He is accepted without question, however, into the advanced faculties of the University of Paris. There is no attempt at a Procrustean bed of curriculum and textbooks in the scores of *collèges classiques*. The examinations are set by the university; and in languages, for example, the papers consist entirely of prose composition and unseen translation. •The BA degree is a prerequisite for most of the professional faculties of the university. In the faculty of letters at Laval, for example, a student so entering will take a further three years for a *licence ès lettres* (either a teacher's diploma or a general culture diploma) and five or six further years, plus a published and publicly defended two-volume thesis, may earn him a *doctorat ès lettres*. A student may by-pass the *collèges classiques* and enter the science faculties direct from grade XI of the provincial secondary schools, but the record of those so matriculating is markedly inferior to that of those entering with the BA. There are separate French classical colleges for men and women, but the rest of the university system is largely co-educational.

In most of the faculties other than arts (theology, law, medicine, philosophy, science, dentistry, pharmacy, music, and many others), the usual degrees are the baccalaureate in the special field, the licence and the doctorate. As a concession to Anglo-Canadian practice, a master's degree is also sometimes offered. The PhD always involves a research thesis in addition to course work.

**RELATIONSHIP TO GOVERNMENT.** By the Canadian constitution, as defined in the British North America Act of 1867, education is assigned to the authority of the several provinces. There is thus no national minister or department of education; but one of these is found in each of the ten provinces. All of the provinces except Quebec, Nova Scotia and Prince Edward Island have provincial universities. The last named has a junior college under provincial auspices. In Quebec and Nova Scotia all universities are private.

Provincial grants to universities range from meagre in the case of Nova Scotia to massive in the case of Ontario, and are paid direct to the individual universities. A federal grant, on the basis of a dollar and a half *per capita* of the provincial census population, is divided among the universities on a basis of enrolment. To avoid any accusation of interference, the federal payments are channelled through an incorporated academic body, the Canadian Universities Foundation (see also p. 111).

**CANADA COUNCIL.** On March 28, 1957, royal assent was given to the Canada Council Act, 4-5 Elizabeth II, Chapter 3, setting up a Canada Council to implement certain recommendations of the Massey commission for assistance to the arts, the humanities and the social sciences. To

this council, the government of Canada gave the sum of one hundred million dollars. One-half of this amount was to be issued in matching grants to Canadian universities, to assist in the erection of new buildings related to the arts, humanities and social sciences. The remaining fifty million dollars was to constitute an endowment fund, the interest on which was to be used for administrative costs, university scholarships (in the arts, humanities and social sciences), a Canadian National Commission for Unesco and assistance to non-academic organizations and projects in the arts, humanities and social sciences.

For the allotment of capital grants, the maximum amount available to any given university is to be found by relating its enrolment proportion within its province to the population proportion of its province within the country as a whole. If its enrolment of degree-course students were one-tenth of the province's total and if the province's population were one-tenth of the national total, then this university's maximum capital grant would be one-hundredth of \$50,000,000, i.e. \$500,000. To receive this grant, or any part thereof, it would need to present the blueprints of an arts building, a library or a residence and prove that it already had in hand one-half of the money for construction.

The interest on the endowment fund gives a revenue of \$2,700,000 a year. Of this sum, expenditures on fellowships, scholarships and other grants to individuals for the arts, humanities and social sciences, plus assistance to publication and similar projects, will run to something over a million and a quarter dollars. Since the scholarship plan of the Massey commission, including its undergraduate scholarships, called for an annual expenditure of six and a half million dollars, the Canada Council has felt obliged to limit itself to awards at the graduate level, including those for scholars and artists from abroad.

Provision has been made for two classes of fellowships for non-residents: (a) fellowships of one year for study or teaching in Canada in the arts, humanities and social sciences, of an average value of \$5000 (plus travel allowance, plus two-thirds travel allowance for wife) for senior fellows who have achieved great distinction, and (b) awards of an average value of \$2000 (plus travel allowance), subject to renewal, for younger scholars or workers who have shown exceptional promise. Scholars under group (b) should not accept teaching duties. In group (a) it is expected that for the most part applications will be presented by universities and other organizations rather than by the individuals concerned themselves, although individuals are not debarred from applying directly to the Council. The procedure for handling group (b) of these fellowships has been worked out with officers of the department of external affairs. This department, and other Canadian government officials, will collect application papers, get them in shape, forward them and see that appropriate publicity is given in the countries where Canada has accredited



representatives. The Council has earmarked three of these scholarships for the newly independent Commonwealth countries of Ghana and Malaya and for the recently formed Federation of The West Indies.

The chairman of the Canada Council is Dr. Claude T. Bissell and its director Dr. Albert W. Trueman. Its permanent address is 140 Wellington Street, Ottawa, Canada. It issues an *Annual Report*.

**FINANCE.** The total income for thirty-one Canadian universities and colleges for the academic year 1958-59 was \$28,258,660. This figure covers the academic phases of their operations and does not include some \$16,931,375 of income from ancillary enterprises. The chief sources of income and the unweighted average proportion of the university budgets derived from these sources are as follows: student fees, 28.41 per cent.; gifts, 2.95 per cent.; endowment, 4.46 per cent.; federal grants, 14.55 per cent.; provincial grants, 26.56 per cent.; research grants, 14.52 per cent. These averages are far from being representative of individual universities. Indeed, for the country as a whole, they are almost meaningless. Thus, student tuition fees range all the way from 14.50 per cent. to 92.2 per cent. of some of the budgets; endowments range from 0.0 per cent. to 28.2 per cent.; provincial grants from 0.0 per cent. to 58.68 per cent.; and research grants from 0.0 per cent. to 27.24 per cent.

**PRE-UNIVERSITY EDUCATION.** Children normally enter school at the age of six, beginning in grade I and taking a new grade each year up to school leaving from grade XI at the age of seventeen or eighteen. While at the secondary school level many will turn to commercial, manual training and other vocational options, students looking forward to university will concentrate on English, at least one foreign language, mathematics, science (physics, chemistry, biology) and history. In some provinces (New Brunswick, Ontario, British Columbia) the same curriculum is spread over twelve grades. An extra grade (XIII in these three provinces, XII in the other seven) carries these subjects a stage farther, and is usually granted a year of university credit (except in science and engineering at McGill, Laval, Montreal and Manitoba). In Ontario, the curriculum of what was once the freshman year is now taught in the secondary schools as grade XIII, and a pass BA requires only three years at most of the province's universities.

**ADMISSION** (see also Appendix II). All qualified applicants are normally accepted without question except in such faculties as medicine, where registration is rigidly limited by lack of laboratory space. Purely residential universities in small towns are also subject to limitations of space. There is no uniform standard of matriculation for all Canadian universities. The approximate standard is twelve years of schooling, with final provincial examinations in English, at least one

other language, algebra, synthetic geometry, history, physics and chemistry. A pass mark of fifty with an average of 60 per cent. is a frequent requirement; but some institutions ask for more (or less) than this.

For admission to graduate school, the prerequisite is most commonly a BA degree with a standing of at least 80 per cent. in the major field in which the higher degree is sought. Graduates of other universities are normally welcomed if their record meets this standard.

The instruction is given in either English or French, depending on the university. A very few institutions are bi-lingual. Proficiency in the language of instruction is an obvious prerequisite for admission. In some cases, tutorial classes in English, or French, are provided for students from abroad, but it would be most unwise to take this for granted. As an individual assessment of the academic record of each student from abroad is necessary, at a price of considerable delay in correspondence, applications for admission should be made some months in advance of the session to be attended. Proof of health, character and financial competence will normally be required from foreign students by the Canadian immigration authorities.

**STRUCTURE OF DEGREE COURSES.** A pass BA is normally a four-year course from junior matriculation, with examinations at the end of each year on a minimum of five specified or elective courses. A minimum of concentration in a major and a minor field is required and at least 65 per cent. standing on a majority of the courses taken. A course for an honours BA will commonly require five years, a much greater measure of concentration, the prescription of special supporting courses and the maintenance of honours standing each year on the examinations of that year. All other first degrees normally call for a specified number of courses each year, at which attendance is compulsory and on which examinations must be passed for credit towards the ultimate diploma.

An MA will probably call for a year of courses beyond an honours BA, first class honours on examinations and an acceptable thesis. For a PhD, one will be asked for two more years of graduate courses, proof of competence in French and German, a comprehensive examination in one's field, a lengthy thesis (involving research under supervision) and a public defence of the thesis.

In most of the larger universities, graduate work is concentrated in a faculty or school of graduate studies, although in some cases a few professional schools may not be included in this administrative pattern. In nearly all institutions, considerable general training in arts and science is a prerequisite for entering professional schools. Three such years are commonly required of students looking forward to law or medicine and those with a first degree in arts or science will be preferred candidates for admission. An arts degree is normally required of those undertaking

training as secondary school teachers or who are entering seminaries to train as clergymen. The same is true in the case of library science and social work.

**TEACHING STAFF.** The academic grades of the teaching staff, in descending order of rank, are (full) professor, associate professor, assistant professor and lecturer or instructor. The main teaching method is the lecture, supplemented by seminars in such fields as history and economics. In the sciences, laboratory periods are often twice the weight of the lecture work. Except in the largest institutions, no time-table allowance is made for professorial research. Canada has no automatic system of sabbatical leave; but after seven years a teacher who wishes a year off for further study or research will normally be given a year's leave on half-pay. Older men from abroad who join Canadian university staffs can hardly hope to benefit from the Canadian superannuation programme unless (as perhaps in the U.S.A.) they have already been enrolled for long years in some transferable system. Otherwise the actuarial obstacles may be insuperable. Vacant teaching posts are almost always filled through private enquiry by university officials. There is no Canadian publication of national scope in which advertisements could be placed; while advertisements abroad involve problems of time-lag and inconvenient interviews at a great distance.

The great majority of Canadian professors will have taken their first degrees in Canada, though frequently with advanced studies in the United States, the United Kingdom or Europe. While Canada's graduate schools and research institutions have expanded phenomenally during the past three decades and the quality of their degrees is very high indeed, they cannot yet hope to cover all of the areas of specialization that are found in older or larger university systems. Nationals from any country are eligible to apply for university posts in Canada. That those from countries other than Canada, the U.S.A. and the U.K. amount to less than five per cent. of the total arises in part from lack of contact and in part from Canadian uncertainty as to the likelihood of successful transplantation from one academic tradition into a very different one. There have often been problems of language, teaching methods and attitudes towards that very un-European animal, the Canadian freshman. Again, while Canadian universities have prided themselves on a tradition of academic freedom for men already on their staffs, no administrator would knowingly appoint pledged members of international conspiracies against his own state. No one wants to scratch a scholar and find an agitator.

One gauge of the proportion of non-Canadians on Canadian staffs may be found in the *Directory of American Scholars*, 1st edition, which showed that of the 293 Canadian professors who rated a place in the book, some 208 (or 71 per cent.) were native Canadians and only 85 (or 29 per cent.) came from the U.S.A. An almost equal number

(204) of native Canadian scholars were professors in the United States. In the intense struggle for staff in the next decade or so, as the clogging of universities in all countries by an explosion of population will make its inexorable demands, it appears possible that Canadian personnel will prove wholly inadequate in numbers and that the U.S.A. and U.K. will have no surplus to spare.

Since World War II, the main faculty importations from non-English-speaking countries have been in the fields of linguistics, music, fine arts and science. These have been mostly Polish, Ukrainian, Magyar and Baltic scholars, political refugees from alien dictatorships in eastern Europe; and most of them have now taken out Canadian citizenship.

For nearly a decade now, all Canadian universities, except those in the province of Quebec, have been receiving grants from the federal government. Since these, however, constitute only a small part of each university's annual income and since there are immense differences in income from provincial grant, endowment income and charitable gifts, the economic stature of the several institutions varies profoundly. A small private university, with meagre provincial help, may pour two-thirds of its income into salaries and still pay its teachers at less than half the rate that some large provincial university may pay its teachers with one-half of its current annual income. Each university has its own distinct salary scale for each rank (lecturer, assistant professor, associate professor and full professor) but there can be no national scale of salary since there is no national uniformity of college income. Thus there is a vast difference between a province like Ontario, where provincial responsibility for higher education is clearly recognized, and a province like Nova Scotia where that responsibility is as yet given only a token recognition. In the year 1959-60, for example, one small Ontario university (McMaster) received more than five times the total provincial help given by Nova Scotia to all its seven universities combined. Only against that background can one understand how the beginning salary for a full professor can vary in different Canadian institutions from \$12,000 a year down to \$5250 a year.

The most generous range can be found in large universities with massive annual outside help. For four such universities (British Columbia, Alberta, Toronto and McGill) the Dominion Bureau of Statistics reported for 1959-60 median salaries for full professors as \$12,175, for associate professors as \$9141, for assistant professors as \$7251 and for instructors and lecturers as \$5502. Even these medians do not tell the whole story, since these four universities reported seven professors with salaries of \$18,000 or over and twenty-five professors with salaries of \$15,000 or over.

**STUDENTS.** The diversity existing among the universities of Canada makes almost every generalization inaccurate with respect to some of

them. Almost all have a substantial number of full-time students in regular course but some (e.g. Sir George Williams College) excel in evening courses and many have extra-mural (correspondence) students and 'summer schools'.

At most universities the majority of the students are in lodgings, the next largest group are in residences, and the remainder are at home. Some Maritime universities (e.g. Acadia, Mount Allison and St. Francis Xavier), however, are almost entirely residential.

On virtually every campus there will be a students' union (guided by a representative council), various athletic societies and a jungle of social, political and literary clubs. Student journalism, dramatics and music will be active. Most universities have training units for the army (C.O.T.C.), the navy (U.N.T.D.) and the air force (R.C.A.F.). There are no uniformly crystallized welfare services, but most universities finance, from fees, a health service that includes medical treatment and hospitalization. Full-time or part-time placement officers are common.

Annual tuition fees will range from \$200 to \$600 a year, depending on the university and the course. Room and board will cost from \$450 to \$650. The total cost of an academic year for a foreign student would range from \$1000 to \$1500. If no summer employment were secured, the full calendar year might cost him \$500 more.

Scholarship assistance is meagre by the standards of the United Kingdom. With the partial exception of Ontario, the provinces have shown no disposition to help their students at the university level, apart from a share in federal-provincial loan funds and in underwriting the fees of teachers-in-training. Postgraduate research grants in science and technology have been made by the federal government through the National Research Council and scholarships in the humanities and social sciences are being awarded by the recently established Canada Council (*see* p. 107). Most undergraduate scholarships are the endowment income on small sums contributed by more or less wealthy Canadians in the past. On the average they enable 5 per cent. of the students to pay 15 per cent. of their annual expenses at college. In the circumstances, it is assumed that all Canadian students will spend the four months of the summer vacation in full-time non-academic employment, earning perhaps one half of the cost of their next year at university. One disastrous result of this situation is that they have neither the time nor the energy for vacation-time study and return in the autumn with nothing learned and much of their earlier course-work forgotten. The fortunate ones are the engineers and geological students who find summer jobs that are relevant to their professional work.

The Dominion Bureau of Statistics has calculated that Canada's university enrolment, which was 36,348 in 1941-42 and 64,165 in 1951-52, will be somewhere between 116,000 and 141,800 in 1964-65. The median figure of 128,900 is not far above an estimate of 123,573 for 1965-66,

made by the universities themselves in 1956. Two factors are involved in these estimates: a steadily increasing enrolment percentage in the relevant age-group and a phenomenal increase in the Canadian birth-rate beginning in the early nineteen-forties after a marked drop during the depressed nineteen-thirties.

**ACADEMIC YEAR.** The usual academic year runs from the end of September until the middle of May, and is divided into two semesters or terms ('fall' and 'spring') by a two-week Christmas break.

**VACATION COURSES.** Some 26 universities offer six-week summer schools during July and one half of August. Both credit and non-credit courses are offered. Most universities refuse to grant a degree on summer schools alone and insist on a minimum of regular attendance.

**UNIVERSITY EXTENSION.** Most Canadian universities have a programme of extension courses, some for degree-course credit and some as a non-academic service to the public. The University of Alberta and St. Francis Xavier University have gone farthest in such services, the former in the field of fine arts and the latter in fishermen's and miners' co-operatives. Saskatchewan has left most of its adult education to the provincial government, although most provincial departments of education have adult education branches in various stages of growth.

**OTHER INSTITUTIONS.** As will be evident from the 'Directory to Subjects of Study' below (pp. 112-115), 'higher education' and 'university education' are almost synonymous terms in Canada. Nearly all training, professional or general, beyond the secondary school level has been assembled under the big tent of the university circus.

Recent years have seen an important new development in the training of scientific technicians and technologists. A high proportion of these is admittedly necessary to support the activities of graduate engineers. Canada has lagged far behind other countries in developing them. The U.S.S.R. may have two and a half million boys and girls in its *tekhnikums* and the technical schools of the U.K. may provide technicians for industry in a ratio of three or four technicians to one engineer, but Canada has until recently left most of this to apprenticeship systems in industry itself. A trail-blazing institution is the Ryerson Institute of Technology, set up in Toronto in 1948 by the Ontario department of education. It is not a trade school but an educational institution. It admits on junior matriculation (Ontario grade XII) and provides so rigorous a course that 55 per cent. of those who register fail to secure the three-year diploma. Two-thirds of the students are engineering technicians; the rest major in business courses, fine arts courses and practical journalism. The courses in electrical, electronic, mechanical, metallurgical, chemical and instrument technology are accredited by the Engineering Institute of Canada. The Ryerson Institute of

Technology, instead of being a separate corporation, comes directly under the Ontario department of education. Registration is already in excess of three thousand. Only some three per cent. of Ryerson's graduates go on to university; but a large proportion of them, after practical experience and evening tutorial classes, proceed to qualify as professional engineers. The successful Ryerson experiment is now being extended to such centres as Hamilton, Brantford and St. Catharines.

The training of chartered accountants, industrial and cost accountants, general accountants, international accountants and accredited public accountants is also mostly carried on outside the universities and the qualifying certificate is issued, after long training and examination, by the professional body itself. The senior body in this field is the institute of chartered accountants in each province.

Teacher training for those with less than a university degree is normally carried on in provincial normal schools or teachers' colleges. University graduates, on the other hand, are given their pedagogical training in university faculties, schools or colleges of education.

Law education is now almost entirely a university function. For many years, the one exception was Osgoode Hall Law School, Toronto, administered directly by the Upper Canada Law Society; but in 1957 this school was authorized by the province of Ontario to give a degree in law.

**INTER-UNIVERSITY ORGANIZATIONS.** Nearly all of the universities of Canada have been organized since 1911 in a loose association as the National Conference of Canadian Universities (NCCU). In 1957 it was incorporated, in order to become eligible to act as an intermediary in accepting federal government grants and paying them out to the individual institutions. It became evident almost immediately, however, that the 244 members of the NCCU constituted too unwieldy a body to take on these new legal responsibilities. It was therefore decided to divide the functions of the NCCU between two bodies: (a) a small, incorporated Canadian Universities Foundation (CUF), designed to handle federal grants, scholarship awards, research, publication and other administrative functions, and (b) a National Conference of Canadian Universities and Colleges (NCCUC), a loosely organized annual gathering of all universities and colleges, 'the national forum of academic opinion', committed to a fraternal discussion of common problems.

The Canadian Universities Foundation (CUF), set up in 1959, accepts the annual money grant (now about \$26,000,000) from the federal government and issues cheques to the individual institutions. Unlike the University Grants Committee in the United Kingdom, it neither makes nor receives any estimates of needs and makes no recommendations to government as to what the allotments should be. The basis of the grants is a counting of heads in each province—to arrive at

a provincial total at a fixed rate (now \$150) per capita—and then a counting of full-time degree-course students in each institution—to arrive at an arithmetical distribution within the province.

The NCCUC and the CUF are closely linked, since every member of the new foundation is a member of the conference and the president of the conference becomes *ex officio* the chairman of the foundation. They also share a single secretariat, appointed by the CUF. The chairman for 1960-61 is the Very Rev. H. F. Légaré of the University of Ottawa. The executive director is Dr. T. H. Matthews, 77 Metcalfe Street, Ottawa 4, Ontario. The research officer is Dr. Edward F. Sheffield, former head of the Educational Branch in the Dominion Bureau of Statistics. Other inter-university organizations are:

(a) Canadian Association of University Business Officers. Secretary: Mr. D. F. Claringbold, Hart House, University of Toronto, Toronto, Ont.

(b) Canadian Association of University Teachers. Executive Secretary: Dr. J. H. S. Reid, Room 603, Commonwealth Building, 77 Metcalfe Street, Ottawa, Ont.

(c) National Federation of Canadian University Students. Executive Secretary: Mr. A. L'Heureux, 375 Rideau Street, Ottawa, Ont.

(d) World University Service of Canada. General Secretary: Mr. D. Mayer, 22 Willcocks Street, Toronto 5, Ont.

**THE UNIVERSITIES TO-DAY.** The major problem faced by all Canadian universities has already been noted in the soaring enrolments, which threaten to double in the decade 1955-65. This is no transient emergency, like the influx of veterans after World War II, but an ever-increasing problem that can be extrapolated for as long as present trends in population continue. Since the century began, Canada's population has risen from five millions to an estimated eighteen millions in 1960 and in a territory larger than Europe there is no reason to assume that this is other than a beginning.

Even in narrowing the problem to one decade, however, the university dilemma is critical. The necessary increase in staff by 1965-66 is envisaged as rising from 5970 to 9725, or an increase of 63 per cent. The amount that the universities estimate must be spent on new buildings and facilities even for the period 1958-63 has been set at \$314,000,000, some \$90,000,000 of which will be sought by public subscription.

These figures, colossal as they seem, are dwarfed by a forecast for 1980, prepared by a recent 'National Conference on Engineering, Scientific and Technical Manpower', which estimates for all faculties two decades hence an enrolment of from 375,000 to 490,000, a staff of over 30,000 and additional facilities at a cost of nearly two billion dollars. Should Canada rise to the present U.S.A. proportion of the relevant age-group enrolled at college, the foregoing figures are modest enough; but the administrators of the

moment are naturally concentrating on their first Ten-Year Plan.

**FURTHER INFORMATION** (see also Appendix V and the 'Publications' section in each university entry below). The National Conference of Canadian Universities and Colleges issues a biennial handbook, *Canadian Universities and Colleges* (latest edition 1960; editor, Dr. E. F. Sheffield), price \$3 and reports of the proceedings at its annual meetings. The Dominion Bureau of Statistics, Ottawa, puts out an annual *Fall Enrolment in Universities and Colleges* and the following biennial publications: *Survey of Higher Educa-*

*tion, Awards for Graduate Study and Research, and University Entrance Awards*; also occasional research papers such as E. F. Sheffield's *Canadian University and College Enrolment Projected to 1965*. A valuable reference pamphlet, *Canadian Institutions of Higher Education*, was published by the D.B.S. in 1959. An historical sketch, together with an exhaustive survey of the humanities, will be found in W. Kirkconnell and A. S. P. Woodhouse, *The Humanities in Canada* (1947). Useful also is *Facilities for Graduate Study in the Humanities and Social Sciences in Canada* (Canada Council, 1959).

## DIRECTORY TO SUBJECTS OF STUDY

A much fuller analysis of subjects of study will be found in the 'Special Curricula' section of *Canadian Universities and Colleges* (see above) on which the following condensed summary is based. Details may be sought there in fields like engineering or divinity, where sub-divisions defy summarization. All Canadian universities offer arts courses, but the availability of the more unusual subjects is listed below:

**Agriculture.** Alberta, Laval, McGill (Macdonald College) and Saskatchewan give the bachelor's, master's and doctor's degrees. British Columbia, Manitoba and the Ontario Agricultural College extend as far as the master's degree. Manitoba gives the bachelor's degree. The Nova Scotia Agricultural College gives only a two-year diploma course. Each of the institutions named undertakes special research into the agricultural problems of its area and all have made contributions to agricultural science.

**Architecture.** At four universities—British Columbia, Manitoba, McGill and Toronto—degree courses are provided in architecture. Five-year diploma courses are available at the Écoles des Beaux Arts in Montreal and Quebec.

**Child Study.** Toronto University's Institute of Child Study admits arts graduates to a one-year diploma course. Short courses are also available.

**Church Workers' Training Schools.** McMaster and Acadia have diploma courses for deaconesses, while prospective missionaries take a degree course in arts. Special training for deaconesses and women missionaries is also provided, in Toronto, at the Canadian School of Missions (Anglican, Presbyterian and United), the Church of England Training House and the United Church Training School (Emmanuel College).

**Commerce or Business Administration.** Nearly all of Canada's universities offer courses in commerce up to the bachelor's degree. British Columbia,

Laval, McGill, Queen's, Toronto and Western add the master's degree. Montreal, in its École des Hautes Études Commerciales, even includes the doctorate. Western in London and the Atlantic universities in Halifax sponsor non-credit summer schools in business administration for senior executives of Canadian companies.

**Criminology.** British Columbia offers an MA course of one or two years for arts graduates; also a diploma course.

**Dentistry.** The degree of DDS is offered at Alberta, Dalhousie, McGill, Manitoba, Montreal and Toronto. Toronto gives the further degrees of BScD, MScD and PhD as well as eight diploma courses.

**Education or Pedagogy.** Most Canadian universities offer a bachelor's degree in education in a one-year professional course following the BA; but Alberta, Brandon, Manitoba, Memorial and Saskatchewan offer four-year pedagogy courses from pass matriculation and stress methodology rather than course-content. The master's, as well as the bachelor's degree, is available at Acadia, Alberta, Bishop's, British Columbia, McGill, New Brunswick, St. Joseph's and Saskatchewan. Laval, Montreal, Ottawa and Toronto also offer a doctorate.

**Engineering.** In the Atlantic region, the first three years of a five-year engineering course are taught at Acadia, Dalhousie, Memorial, Mount Allison, St. Dunstan's, St. Francis Xavier and St. Mary's, while the two final years are given at the Nova Scotia Technical College, in Halifax. Full degree courses are given at Alberta, British Columbia, Carleton, Laval, Manitoba, McGill, McMaster, Montreal, New Brunswick, Ottawa, Queen's, Saskatchewan, Toronto and Western Ontario. While each university offers most branches of engineering, some of them have special branches suited to their region, e.g.

Alberta has irrigation engineering and petroleum engineering, and Saskatchewan has agricultural engineering and petroleum engineering.

**Fine Arts.** Nearly all Canadian universities accept some courses in fine arts as options in the BA course, but only three universities—Manitoba, Mount Allison and Toronto—offer a bachelor's degree, the two former in fine arts and the latter in art and archæology. Mount Allison also offers three-year certificates in fine and applied arts, and Alberta two-year and four-year diplomas in art. Three university summer schools lay great stress on the arts, viz., Alberta (Banff School of Fine Arts), Queen's and Western Ontario. Some institutions are wholly devoted to art, e.g. Ontario College of Art, School of Art (Sir George Williams College).

**Fisheries.** Special courses in ichthyology are available at the University of British Columbia (Institute of Fisheries), Laval (École supérieure des Pêcheries) and Dalhousie University.

**Food Technology.** A bachelor's degree in food technology is available at British Columbia, Dalhousie, Ontario Agricultural College, Saskatchewan and Toronto.

**Forestry.** British Columbia, Laval and Toronto offer the bachelor's, master's and doctor's degrees; New Brunswick the bachelor's and master's; and Memorial a 'pre-forestry' diploma.

**Geography.** Alberta, Ottawa and Toronto offer bachelor's degrees; Western Ontario and McMaster add a master's degree; Laval, McGill and Montreal carry work to the doctorate. Nine other universities carry from one to thirteen credit courses in geography.

**Home Economics.** Manitoba, McGill and Montreal carry work to the master's degree. Four-year courses from junior matriculation to the bachelor's degree are available at Acadia, Alberta, Assumption, British Columbia, Laval, Mount Allison, Mount St. Vincent, Ontario Agricultural College (Macdonald Institute), Ottawa, St. Francis Xavier (Mount St. Bernard College), St. Joseph's (Notre Dame d'Acadie), Saskatchewan, Sherbrooke, Toronto and Western Ontario. Memorial gives a two-year diploma.

**Hospital Administration.** British Columbia and Toronto offer one-year diploma courses, and Montreal an MA (AdmHosp) for two years beyond the MD.

**Hygiene.** Montreal and Toronto offer one-year diploma courses.

**Industrial Arts.** Alberta and British Columbia have courses of four and five years respectively, leading to a BEd degree.

**Industrial Relations.** Laval and Montreal carry work to the master's degree and the doctorate. Queen's has a certificate course and McGill an 'Industrial Relations Centre' with a library, seminars, short courses and conferences.

**Interior Design.** Manitoba has a four-year course to the degree of bachelor of interior design.

**Islamic Studies.** McGill's Institute of Islamic Studies offers an MA course.

**Journalism.** Carleton offers a BJ and Western Ontario a BA (honours). A three-year diploma course is offered by the Halifax School of Journalism, sponsored jointly, with its own board of governors, by St. Mary's, King's, Mount St. Vincent, the Halifax *Chronicle-Herald* and radio station CJCH. Western Ontario also gives a one-year diploma course for graduates in arts as well as a four-year BA with a journalism major.

**Laboratory Technique.** While most universities train a number of students incidentally as technicians, Alberta gives a BSc in the field and Laval, Montreal and Saskatchewan diplomas or certs.

**Language Schools.** At several university summer schools, French-speaking students are given an opportunity to immerse themselves in an all-English regimen or English-speaking students in an all-French one. Queen's, Sherbrooke and New Brunswick provide the former type and McGill, Mount Allison and Western Ontario (Trois-Pistoles School) the latter. Laval, Ottawa and Montreal provide both types.

**Languages.** Nearly all faculties of arts give courses in French, German, Greek, Latin, Hebrew and Spanish. Other languages are also available as follows: Arabic (Laval, McGill, Ottawa); Chinese (British Columbia); Czech (Montreal); Dutch (New Brunswick); Gaelic (St. Francis Xavier); Hungarian (Montreal); Icelandic (Manitoba); Italian (Acadia, British Columbia, Carleton, Laval, McGill, Montreal, Mount Allison, New Brunswick, Ottawa, Queen's, St. Francis Xavier, Sherbrooke, Toronto, Western Ontario); Japanese (British Columbia); Lithuanian (Montreal); Norwegian (Saskatchewan); Polish (British Columbia, Manitoba, Montreal, Ottawa); Portuguese (Laval, Toronto); Russian (Alberta, British Columbia, Carleton, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Ottawa, Queen's, Saskatchewan, Toronto, Western Ontario); Slovak (Montreal); Ukrainian (Manitoba, Montreal, Ottawa, Saskatchewan).

**Law.** The practice of law in each province is under the jurisdiction of the Law Society of that province. Graduation in law from one of the universities or schools listed below is normally accepted as the academic standard for the province where the school is located. In most provinces, a BA is a prerequisite for entering the faculty of law. University institutions are: Alberta, British Columbia, Dalhousie, Laval, McGill, Manitoba, Montreal, New Brunswick, Ottawa, Queen's, Saskatchewan, Sherbrooke, Toronto and Western Ontario. Osgoode Hall Law School (Toronto) also grants a law degree. Several schools offer advanced degrees and Laval, McGill and Montreal carry work to the doctorate.

**Library Science.** McGill, Montreal, Mount St. Vincent, Ottawa and Toronto offer a bachelor's degree for one year beyond the BA; McGill, Ottawa and Toronto also offer a master's degree;

Laval confers a one-year diploma; Acadia offers credit options in the BA course and St. Francis Xavier a BA with a major in library science.

*Marine Biology.* Special studies are available at Memorial and at McGill's research station in Barbados.

*Medieval Studies.* Two institutions, l'Institut d'Études Médiévales Albert le Grand (University of Montreal) and the Pontifical Institute of Medieval Studies (University of St. Michael's College, Toronto), offer courses and degrees ranging from the licentiate to the doctorate. The prerequisite for the former institute is the BA, for the latter the honours BA.

*Medical Radiology.* The faculties of medicine at McGill, Queen's and Toronto offer diploma courses for graduate physicians.

*Medicine.* There are faculties of medicine at Alberta, British Columbia, Dalhousie, Laval, Manitoba, McGill, Montreal, Ottawa, Queen's, Saskatchewan, Toronto and Western Ontario. The normal prerequisite is three years in arts or science. Various post-MD degrees or diplomas are also offered at Manitoba, McGill, Montreal, Queen's, Toronto and Western Ontario, e.g. psychiatry and tropical medicine at McGill, psychiatry at Toronto and clinical science at Western Ontario.

*Music.* Work as far as the doctorate in music is offered at Laval, McGill, Montreal and Toronto; Acadia gives the licentiate, bachelor's (BA and BMus) and master's degrees; the bachelor of music degree is offered at Alberta, Dalhousie, Mount Allison, Mount St. Vincent, St. Francis Xavier and St. Joseph's; Saskatchewan and Western Ontario offer a BA with music options; a BA with a major in music is also offered at Acadia and Sherbrooke; while various forms of diplomas, associateships and licentiates are offered by the foregoing and by Brandon College, Manitoba and Ottawa.

*Nursing.* A degree of bachelor of science in nursing (or its equivalent) is conferred, for a combined hospital and academic course (usually of five years), at Alberta, Assumption, British Columbia, Dalhousie, Laval, McGill, McMaster, Montreal, Mount St. Vincent, Ottawa, Queen's, St. Francis Xavier, Saskatchewan, Sherbrooke, Toronto and Western Ontario. Manitoba gives a one-year certificate course for graduate nurses.

*Oceanography.* Research and course work are available at Memorial and at British Columbia's Institute of Oceanography.

*Optometry.* The École d'Optométrique, Montreal, offers a three-year licence after the classical college BA, as well as further courses to the master's degree and the doctorate.

*Pharmacy.* Faculties or schools of pharmacy offer the bachelor's degree at Alberta, British Columbia, Dalhousie, Laval, Manitoba, Montreal (also master's and doctor's degrees), Saskatchewan (also a master's degree), and Toronto (also a

master's degree). Assumption offers the first two years of a pharmacy course. Most provinces demand a period of internship.

*Physical and Occupational Therapy.* McGill offers a five-year bachelor's degree and a three-year diploma course. Diploma courses are also given at Alberta, Montreal and Toronto.

*Physical Education.* The bachelor's degree in physical education is offered, in various forms, at Alberta, British Columbia, McGill, McMaster, New Brunswick, Saskatchewan, Toronto and Western Ontario. Memorial gives a two-year diploma.

*Psychiatry.* Diploma courses are open to graduate physicians at Dalhousie, McGill and Toronto.

*Psychology.* While courses in psychology are available at virtually all Canadian universities, special postgraduate courses to the doctorate are offered at McGill, Montreal and Ottawa.

*Public Administration.* Carleton offers bachelor's and master's degrees in this field; Ottawa has a specially slanted BCom course; while Queen's has an honours BA and Saskatchewan an evening certificate course.

*Public Health.* Almost all schools of nursing give a one-year course for graduate nurses who wish to specialize in public health nursing (see also Nursing and Hygiene). Toronto and Montreal provide specialist doctoral courses after the MD.

*Secretarial Science.* Acadia and Mount Allison give a three-year diploma and a four-year combined course BA; Mount St. Vincent offers a BSc; St. Francis Xavier (Mount St. Bernard College) has two-year diplomas in secretarial science and medical secretarial science; Western Ontario gives a BA course as does also the University of Ottawa in its Notre Dame College.

*Social Work.* The general pattern in Canada calls for a BA or BSc as prerequisite and a two-year course (including abundant field work) leading to an MSW degree. This is the sole degree at Acadia, King's, Mount Allison, St. Francis Xavier and St. Mary's (all five in affiliation with the Maritime School of Social Work), St. Patrick's and McGill; while British Columbia, Manitoba and Toronto intercalate a BSW after the first year of the course. Laval has bachelor's and master's degrees three and four years respectively after the classical college BA, while Montreal only the master's degree (three years after the BA). Western Ontario offers only an honours BA with no field work. Laval has started a research centre in religious sociology.

*Speech Therapy and Audiology.* Montreal offers an MA (two years after BA or BSc) and Toronto a diploma course.

*Theology.* There are in Canada some fifty-five theological faculties or colleges of university grade giving theological instruction. The Protestant

institutions are as follows: Church of England, eleven; United Church, eight; Presbyterian, two; Baptist, two; Lutheran, two; total, twenty-five. These do not include more elementary schools of the 'Bible college' type. The Roman Catholic institutions number thirty. Of these, ten are administered by the secular clergy and twenty by clerical communities. Advanced graduate work in theology has been organized at Toronto in the 'Toronto Graduate School of Theological Studies', a collaborative enterprise of the Anglican, United Church and Presbyterian theological colleges in that city.

*Town (Community) and Regional Planning.* Graduate courses for the master's degree are

offered at British Columbia and Manitoba, and a diploma course at Toronto.

*Tropical Medicine and Hygiene.* McGill offers a one-year diploma to holders of the MD and DPH. Field work is carried out in Trinidad and British Guiana.

*Veterinary Science.* Undergraduate and graduate courses in veterinary science, leading to the bachelor's, master's and doctor's degrees, are provided at the Ontario Veterinary College, Guelph, in affiliation with the University of Toronto. French-language students take corresponding courses at the École de Médecine Vétérinaire, St-Hyacinthe, in affiliation with the University of Montreal.

## B. STATISTICS

[Source: Dominion Bureau of Statistics, Ottawa \*]

**TOTAL STUDENT ENROLMENT.** The estimated full-time university-grade student enrolment in all Canadian universities and colleges in the autumn of 1958 was 94,400 (an increase of 9.1 per cent. over the corresponding figure for 1957), divided among faculties as follows: I. *Undergraduate*: arts and letters, 33,296; pure science, 7,521; agriculture, 1,562; architecture, 624; commerce and business administration, 4,994; dentistry, 941; education, 7,110; engineering and applied science, 14,826; fine and applied arts, 80; forestry, 772; household science, 1,432; journalism, 100; law, 2,714; library science, 100; medicine, 4,370; music, 216; nursing, 1,374; optometry, 93; pharmacy, 1,219; physical and health education, 591; physio- and occupational therapy, 395; secretarial science, 192; social work, 628; theology, 1,926; veterinary science, 404; others, 530. II. *Postgraduate*: 4,550. In addition to these 92,560 students an estimated 1840 were enrolled at certain small institutions, mainly in undergraduate arts and theology.

**STUDENTS FROM OTHER COUNTRIES.** Preliminary figures for 1958-59 show that there were about 5,300 full-time students from outside Canada enrolled at

Canadian universities and colleges. The countries from which the largest numbers came were: U.S.A., 1,600; W. Indies Fed., 897 (Trinidad, 549; Jamaica, 194); Hong Kong, 546; United Kingdom, 510; India, 152; France, 150; Netherlands, 83; Germany, 76; Bermuda, 61. Over 100 countries or territories were represented.

**DEGREES AWARDED (1958-59).** *Bachelor and first professional degrees*: agriculture, 294; architecture, 91; arts, 6,389; pure science, 1,187; chiropractic, 35; commerce and business administration, 1,007; dentistry, 196; education, 1,749; engineering, 20,477; fine and applied art, 8; fisheries, 1; forestry, 150; home economics, 232; journalism, 20; law, 722; library science, 85; medicine, 842; music, 59; nursing, 230; physio- and occupational therapy, 130; optometry, 22; pharmacy, 296; physical and health education, 103; social service, 197; theology: catholic 542, protestant 328; veterinary science, 68. *Master and licence degrees* (excluding first professional): master of arts, 1,012; master of science, 463; licence, 213. *Doctorates*: earned, 284; honorary, 303.

\* The D.B.S. figures quoted in this section cover a rather wider range of institutions than are listed in the *Yearbook*.



# ACADIA UNIVERSITY\*

Founded 1838 ; incorporated 1840

Postal Address : Wolfville, Nova Scotia, Canada

Cables and Telegrams : Acadia University, Wolfville, Nova Scotia

Telephone (Registrar) : Wolfville 3423

CHAIRMAN OF THE BOARD OF GOVERNORS—H. E. CROWELL, Hon. DCL, CA

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DLitt *McAl. & Manit.*, LL.D *Assum.*, LL.D *Alliance*, FRAI, FRHistS, FRSCan

VICE-PRESIDENT—R. S. LONGLEY, AM PhD *Harv.*, LL.D *McM.*, BSc, FRSCan

EXECUTIVE VICE-PRESIDENT—T. B. McDORMAND, BD *St.Stephen's*, DTh *Emmanuel*, DD *McM.*,  
BA(Th)

PROVOST—C. W. SMALL, MA *Tor.*, BSc

REGISTRAR—RUBY M. THOMPSON, BA

TREASURER AND BUSINESS MANAGER—F. J. ELDERKIN

LIBRARIAN—H. W. GANONG, BA *New Br.*, BLS *Tor.*

## TEACHING STAFF

[†=Part-Time]

### Art and Æsthetics

Beals, Helen D., BA Assoc. Prof.

### Biology

Smith, E. C., PhD *Harv.*, BSc Prof.  
Bleakney, J. S., PhD *McG.*, MSc Assoc. Prof.  
Ellis, Jacqueline, MSc *Dal.*, PhD *McG.*,  
BSc Assoc. Prof.

### Chemistry

Small, C. W., MA *Tor.*, BSc Prof.  
Linton, E. P., BSc *Mt All.*, PhD *McG.* Prof.  
Hansen, E. S., PhD *Yale*, BSc Prof.  
Cheney, G., MSc *Dal.*, PhD *Pitt.* Assoc. Prof.

### Classics

Neathy, L. H., MA *Sask.*, PhD *Tor.* Prof.

### Economic Science

Mosher, J. I., AM *Harv.*, BA Prof.  
Morse, N. H., PhD *Tor.*, MA *Tor. & Acad.* Prof.  
Fountain, S., MBA *Boston*, BA Assoc. Prof.  
Connor, J., BA BCom *Dub.* Assoc. Prof.  
Miller, C. †Lectr.

### Education

Marshall, M. V., EdD *Harv.*, BA BSc Prof.  
MacDonald, R., MA BEd Assoc. Prof.  
Ross, Janice, MA *Col.*, BA †Lectr.

### Engineering

Cain, B. N., BE *N.S.T.C.* (on leave) Prof.  
Spence, G. D., BSc *N.S.T.C.* Assoc. Prof.  
De Wolfe, E. L., BE *N.S.T.C.*, BA Assoc. Prof.  
Turner, F., BE *N.S.T.C.* Assoc. Prof.

### English Language and Literature

Gillon, A., MA *Jerusalem*, PhD *Col.* Prof.  
Wanamaker, M., MA *Qu.*, BA BEd Assoc. Prof.  
Sheriff, J., MA *Tor.* Assoc. Prof.  
Blandford, A. S., BA *Mt.All.*, MA *Tor.* Asst. Prof.

**French**, see Romance Langs.

### Geology

Cameron, H., MSc *McG.*, BSc, FGSA  
King Assoc. Prof.  
MacNeill, R., MSc Assoc. Prof.  
Moore, R. G., BSc *W.Out.*, MSc  
PhD *Mich.* Assoc. Prof.

### German

Waseem, Mrs. Gertrud, MA *McG. &*  
*Tubingen* Asst. Prof.

### Greek

Lumsden, C. B., MM, BD *Newton*,  
PhD *Yale*, BA Prof.

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**History**

Longley, R. S., AM PhD *Harv.*, LLD *McM.*,  
 BSc, FRSCan Alumni Prof.  
 Fraser, D. G. I., MA Assoc. Prof.  
 MacIntosh, A. W., MA BEd *Dal.*,  
 PhD *Tor.* Asst. Prof.  
 Stokesbury, J. L., BA Lectr.

**Home Economics**

MacMillan, Elizabeth, MSc *Corn.*, BSc(HEc) Prof.  
 Nowlan, Clara, MS *Corn.*, BSc(HEc) Assoc. Prof.  
 Wade, Charlotte, BSc *Mt.All.*, MA *Col.* Assoc. Prof.  
 Roscoe, Mrs. Helen, BA *Tor.* †Instr.  
 Peck, Mrs. Jean R., BSc(HEc) †Instr.

**Italian**, see Romance Langs.

**Library Science**

Ganong, H. W., BA *New Br.*, BLS *Tor.* Assoc. Prof.

**Mathematics**

Haley, K. D. C., MA PhD *Stan.* (on leave) Prof.  
 Snow, D. O., PhD *Qu.*, MA MSc *Brown*,  
 BSc Prof.  
 Jettery, R. L., MA PhD *Corn.*, BA DSc,  
 FRSCan Prof.  
 Blum, E., PhD *Bucharest* Assoc. Prof.  
 Stroud, T. W. F., MA *Tor.* Asst. Prof.  
 Pearson, T. L., BSc Lectr.

**Music**

Collins, E. A., MA MusB *Camb.*, FRCO Prof.  
 Kalejs, J. Prof.  
 Gmeiner, E. F. (Organ) Asst. Prof.  
 Noble, Mrs. Elsa, MusB (Piano) Instr.  
 Kalejs, Mrs. Felicita (Piano) Instr.  
 McLennan, Mrs. Phyllis, MusB (Piano) Instr.

**Philosophy**

Lewis, H., MA *McG.*, PhD *Mont.* Assoc. Prof.

**Physical Education**

Kelly, F. G., BA Assoc. Prof.  
 Aberdeen, S. W., BS *Tusculum*,  
 MS *Springfield* Assoc. Prof.  
 MacVicar, N. H., BA BEd Assoc. Prof.  
 MacVicar, Mrs. Mary Lectr.

**Physics**

Noble, W. J., BSc *New Br.*, MSc *Dal.*,  
 MA *Tor.*, PhD *Edin.* Prof.  
 Magarvey, R., MSc *McG.*, BSc Prof.  
 Tillotson, J. G., BSc *Manit.*, MSc *W.Ont.* Prof.  
 Van der Baaren, D., BSc *Indonesia*,  
 MA *Bandung* Assoc. Prof.

**Psychology**

Grant, Marion E., MA DPAd *Tor.*,  
 LLD *New Br.*, BA Assoc. Prof.

**Romance Languages**

Rayski-Kietlicz, K., MagPhil *Cracow*,  
 Dèsl. *Paris* Prof.  
 Bentley, C. A., PhD *Vienna* Assoc. Prof.  
 Taylor, Anna J., BA *Dal.*, AM *Col.* Assoc. Prof.

**Secretarial Science**

Marsh, Jean, BA *W.Ont.*, AM *Col.*,  
 DiplEd *Ont.Coll.ofEducn.* Assoc. Prof.  
 Kinsman, E. B., LLB *Dal.*, BA †Lectr.  
 Morrison, Vivian, BSc *Flora Macdonald* Lectr.

**Spanish**, see Romance Langs.

**THEOLOGY****Biblical Literature and Interpretation**

Lovesey, M. R. B., BSc *Birm.*, BD MTh  
*Lond.*, MA *Oxon.* Assoc. Prof.  
 Levy, G. E., MA *McG.*, BD ThD  
*United Theol. Coll. (P.Q.)*, BA Assoc. Prof.

**Church History**

Whidden, E. MacD., MA *McM.*, BD *Yale*,  
 Hon. DD *Pine Hill & McM.* Prof.

**Practical Theology**

Merrick, E. C., BA Hon. DD *McM.* Armstrong Prof.  
 Taylor, C., STM *Andover Newton*, BA  
 BD Asst. Prof.  
 Roberts, E. Lectr.

**Systematic Theology**

Cherry, M. R., AB *Ouachita*, BD ThD  
*S.BaptistTheol.Sem.* Prof.

**ADMINISTRATIVE AND OTHER STAFF**

Dean of Women : Mrs. Ethel V. Kinsman.  
 Univ. Physician : H. M. Simms, MD CM *Dal.*,  
 BSc. Field Representative : J. M. Scott, BA

BD. Plant Supt. : R. Roscoe, BSc. Dietitian  
 Elizabeth Stuart, BSc(HEc).

**ASSOCIATED INSTITUTION**

Approved grads. of Acadia and other recognized univs. who successfully complete a further 2 yrs. of professional trg. at the MARITIME SCHOOL OF SOCIAL WORK, Halifax, N.S., are

granted by Acadia the degree of Master of Social Work (MSW). Dir.—L. T. Hancock, MA *Chic.* & *K.C.N.S.*, BSW *McG.* (tel. : Halifax 3-6907).

## GENERAL INFORMATION

Founded, as Queen's Coll., in 1838 by the N.S. Baptist Educational Society, Acadia Coll. ('Acadia' is a Latinized form of 'Acadie', the earlier Amerindian name for Nova Scotia) was incorporated in 1840 by act of the N.S. legislature, with the powers of a univ. and the name changed to Acadia Univ. by an act of legislature in 1891. Endowment, \$2,000,000; physical plant, \$8,000,000.

**CONSTITUTION.** The bd. of governors is appointed by the Baptist Convention of the maritime provinces, but the students and faculty are subject to no religious tests. Of the 30 governors, 14 are nominated by the Associated Alumni of the univ. By the 1840 act of incorporation and subsequent legislative amendments, the bd. of governors has authority over all matters of property, finance and discipline, and all appts. of academic or admin. staff. The senate, consisting of pres., provost, deans, chairman of governors, and 12 other persons apptd. by bd. of governors, has final authority over all academic matters including curricula, and grants dipls. and degrees in all depts. and facs. For purposes of routine admin., the bd. delegates its powers of discipline to the facs. Curricula and exams. are the province of the facs., subject to final confirmation of senate. The pres. is chairman of senate and of the combined facs., and *ex officio* a member of bd. of governors.

**INCOME (1958-59).** Total operating income, \$1,072,828. Of the non-residential income, the sources were: fees, 43 per cent.; federal govt. grant, 24.6 per cent.; provincial govt. grant, 8.5 per cent.; endowment, 14 per cent.; Baptist churches, 1.9 per cent.; other gifts, 6.6 per cent.; other income, 1.4 per cent.

**FACULTIES AND DEANS (1959-60).** *Arts & sci.*, Prof. R. S. Longley (hist.); *educn.*, Prof. M. V. Marshall; *engin.*, Prof. B. N. Cain; *home econ.*, Prof. Elizabeth MacMillan; *music*, Prof. E. A. Collins; *theol.*, Prof. E. MacD. Whidden (church hist.). *Soc. sci.* (dir.), Assoc. Prof. Jean Marsh.

**UNIVERSITY PRECINCT.** 100 acres of lawn, park and playing fields have been landscaped over the past century. Some 31 bldgs. have been erected and an architect's master plan projects still others. This is a residential univ. in a town of 2400 pop.

**LIBRARY.** 110,000 vols. Sp. collections include Eric Dennis and John D. Logan collections of Canadiana.

**LABORATORIES.** Biol., chem., geol., phys., engin., home econ. Green-houses and arboretum. Astronomical observatory.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** BA, BSc—4 yrs. (for hon.: 4-5 yrs., 80 per cent. standing and thesis); hon. may be taken in biol., chem., econ., Engl., French, geol., hist., home econ., Latin, maths., philos.,

phys., psychol., sociol. BCom, BTh, BSc(HEC)—4 yrs.; BMus—4 yrs. and concert recital.

**HIGHER DEGREES.** MA (can be taken in econ., Engl., French, hist., German, Greek, Latin, maths., psychol., sociol.), MSc (can be taken in biol., chem., geol., maths., phys., psychol.), MMus—1 yr. beyond bachelor's degree, 80 per cent. standing on master's courses, and thesis; BEd—1 yr. beyond BA or BSc; MEd—1 yr. and thesis beyond BEd; MSW—2 yrs. at Maritime Sch. of Soc. Work (see p. 117) beyond bachelor's degree; BD—3 yrs. and thesis beyond BA. The DCL, DLitt, DSc, DD, MusD, are honorary degrees.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS AND CERTIFICATES.** 3 yrs.—dipl. in home econ., cert. in appl. sci., licentiate in music, secretarial sci. dipl. 2 yrs.—jr. arts, cert. in women's leadership trg. The appl. sci. cert. enables students to enter without exam. into the Nova Scotia Tech. Coll. and the 4th yr. classes of McGill Univ.'s fac. of engin. 3 yrs. plus pedagogy—sr. dipl. in educn.; 2 yrs. plus pedagogy—jr. dipl. in educn.

**RESEARCH.** An Acadia univ. inst., incorporated in 1956, plans and supervises res. projects for profs. and advanced students. Recent projects have examined economic problems of the adjacent region of N.S.

**STUDY LEAVE.** Members of the faculty may have a year of study leave on half-salary after seven years of service.

**FEES.** From \$340 p.a. (incl. tuition, lab. and general fees).

**SUMMER SCHOOL.** Graduate courses of study available for teachers of the province wishing to qualify for the master's degree, which is a necessary qualif. for academic licence issued by dept. of educn. of Nova Scotia. 4 summer sessions are required as equivalent of 1 full academic yr. All the work for the master's degree must be carried out in one dept. Classes are also offered in undergrad. work and to a limited extent in elem. foreign langs.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS.** A no. of scholps. are open for competition each yr. on the basis of exams. of the province of N.S. The univ. also has a no. of bursaries which may be awarded to deserving students. Details in univ. *Calendar*.

**GRADUATE SCHOLARSHIPS.** Bayne teaching fellowship in biol., \$600 plus fees.

**EMPLOYMENT.** A joint fac.-student cttee. co-operates with the placement service of the federal dept. of labour.

**GRADUATES.** The grads. of Acadia Univ. have been organized since 1860 as the 'Associated Alumni', with annually elected officers and a paid

sec.-treasurer. They edit an official publicn., the *Acadia Bulletin* (6 times a yr.), and nominate 14 members to the univ.'s bd. of governors.

**RESIDENCE.** (Room and board, \$530 a yr.) For women : Whitman Hall (dean, Mrs. Ethel V. Kinsman), 119 students. Seminary (dean, Mrs. Lillian Hopkins), 58. For men : Memorial Residence (dean, H. Way), 187 ; Willett Hall (dean, J. Stokesbury), 64 ; Horton Hall (dean, R. MacDonald), 80.

**DEFENCE TRAINING.** (a) Acadia univ. naval trg. division. Staff officer, Lt. H. L. Cameron. (b) Acadia univ. contingent, C.O.T.C. C.O. : Major D. G. L. Fraser. (c) R.C.A.F. (Reserve) detachment. Air liaison officer : F/O R. H. MacNeill.

**STUDENT HEALTH SERVICE.** The univ. has its own resident physician, nursing service and hosp. wards for men and women.

**ATHLETIC FACILITIES.** Memorial gymnasium with swimming pool, games floor and running track ; Raymond field, with facilities for football, baseball, ground hockey and track ; univ. rink with artificial ice for ice hockey and skating.

**STUDENTS' UNION.** Union bldg., administered by a student cttee., has a cafeteria, student offices and a reception room.

**PUBLICATIONS.** *Calendar* (Feb., gratis on request) ; *Students' Year Book* (May) ; *Athenæum* (weekly, Oct. to April). Official history : *Acadia University*, 1838-1938, by R. S. Longley (Wolfville, 1939, o.p.) ; *Acadia Bulletin* (6 times a year).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Total value of all benefactions received : \$431,415.

**RETIREMENT.** Prof. M. F. Bancroft (geol.).

**RESIGNATION.** Dr. J. I. McAdam (philos.), to R.M.C.

**HONORARY DEGREES.** *DCL*—Marion Bates, dean of women, McM. ; C. S. Frost, pres., Bank of N.S. ; M. L. MacLean, construction engineer ; J. H. MacQuarrie, judge, supreme court of N.S. ; G. C. Nowlan, minister of nat. revenue. *DD*—S. A. Westcott, minister, Syracuse Baptist Church ; R. E. Whitney, home mission supt. ; A. H. Whitman, veteran clergyman. *DSc*—M. F. Bancroft, prof. of geol. in the univ.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	515	12
Women . . .	245	13
Total . . .	760	25

Distribution by Faculties. *Arts*, 264 ; *comm.*, 46 ; *educn.*, 41 ; *engin.*, 124 ; *home econ.*, 39 ; *music*, 18 ; *sci.*, 198 ; *ser. sci.*, 47 ; *theol.*, 49. Total : 826.

*Included in the figures above are :—*

Postgraduate students, 46.

New admissions, 254.

Students from other countries, 63. (Countries from which largest numbers came : U.S.A., 27 ; Hong Kong, 16 ; West Indies, 11).

**DEGREES AWARDED (1958-59).** *Arts* : BA, 51 ; EA (hons.), 3 ; MA, 1. *Comm.* : BCom, 2. *Educn.* : BEd, 22 ; MEd, 1. *Home econ.* : BSc (HEc), 12. *Music* : BMus, 1 ; BA (mus. maj.), 2. *Sci.* : BSc, 39 ; BSc (hons.), 5 ; MSc, 2. *Theol.* : BD, 2. Total number of first degrees awarded, 115.

**DIPLOMAS AWARDED (1958-59).** JrDipEd, 6 ; SrDipEd, 8 ; SecSciDip, 6 ; LicMus, 2.

**CERTIFICATES AWARDED (1958-59).** Appl. sci., 26.

# UNIVERSITY OF ALBERTA§

Founded 1906

Postal Address: Edmonton, Alberta, Canada

Cables and Telegrams: VERA

Telephone (Registrar): Geneva 9-4951, Ext. 217

VISITOR—The Hon. J. P. PAGE, Lieutenant-Governor of Alberta

CHANCELLOR—L. Y. CAIRNS, BA LL.D.

CHAIRMAN OF BOARD OF GOVERNORS—C. M. MACLEOD, QC, LL.D.

PRESIDENT—W. H. JOHNS, BA *W.Ont.*, PhD *Corn.*, LL.D.

VICE-PRESIDENT—L. H. CRAGG, PhD *Tor.*, FCIC

PROVOST AND EXECUTIVE ASSISTANT TO PRESIDENT—A. A. RYAN, MA

DEANS OF FACULTIES—AGRICULTURE—C. F. BENILEY, PhD *Minn.*, MSc (Soil Sci.); ARTS AND SCIENCE—D. E. SMITH, MA *Qu.*, PhD *Harv.* (Psychol.); DENTISTRY—H. R. MACLEAN, DDS, FACD; EDUCATION—H. T. COUTTS, BA *Tor.*, PhD *Minn.*, MA (Educnl. Admin.); ENGINEERING—G. W. GOVIER, BSc *Br.Col.*, ScD *Mich.*, MSc (Chem. Engin.); GRADUATE STUDIES—A. G. MCCALLA, PhD *Calif.*, MSc, FRSCan (Plant Sci.); LAW—W. F. BOWKER, QC, LL.M. *Minn.*, BA LL.B.; MEDICINE—W. C. MACKENZIE, BSc MD CM *Dal.*, MS *Minn.*, FACS, FRCSCan (Surg. & Clin. Surg.); PHARMACY—M. J. HUSTON, PhD *Wash.*, MSc

DIRECTORS OF SCHOOLS—COMMERCE—H. HARRIS, MS PhD *Iowa*, MA *Tor.*, BSc (Agric); HOUSEHOLD ECONOMICS—ELIZABETH L. EMPEY, MNS *Corn.*, PhD *Cal.*, BSc; NURSING—RUTH E. MCCLURE, MPH *Pitt.*, BSc; PHYSICAL EDUCATION—M. L. VAN VLIET, MS *Oregon*, EdD *Calif.*; PHYSICAL THERAPY AND OCCUPATIONAL THERAPY—J. R. FOWLER, MD

REGISTRAR—A. D. CAIRNS, BA

LIBRARIAN—B. B. PEEL, MA *Sask.*, BLS *Tor.*

BURSAR—J. M. WHIDDEN, BCom

## TEACHING STAFF

\* - at Calgary; † = Part-Time]

### Accounting

Campbell, J. D., MCom *Qu.* Prof.  
Goodale, D., BCom *Sask.* Assoc. Prof.  
Rankin, A. S., BSc *Lond.*, CA Asst. Prof.  
Berglund, R. C., BCom \*Sessl. Lectr.

### Agriculture, see below

### Anatomy

Rawlinson, H. E., MSc PhD *McG.*, MD Prof.  
Thompson, J. S., MA *Sask.*, MD *Tor.* Prof., (Med.) Asst. Dean  
Salt, W. R., MSc Prof.  
Fish, Mrs. Margaret T., MD MSc Assoc. Prof.  
Bury, R. J., MD *W.Ont.* Asst. Prof.  
Minish, N. J., MD *Manit.* Hon. Asst. Prof.  
Thompson, Mrs. Margaret W., BA *Sask.*, PhD *Tor.* (Human Genetics) Asst. Prof.

### Bacteriology, see Medicine

### Biochemistry

Collier, H. B., MA PhD *Tor.*, FRSCan Prof.  
Tuba, J., MSc *Sask.*, PhD *Tor.* Prof.  
Smilie, L. B., BSc *McM.*, MA PhD *Tor.* Assoc. Prof.  
Spencer, Mrs. Mary S., BA *Sask.*, MA *Byn Mawr*, PhD *Calif.* Assoc. Prof.  
Stewart, A. G., MA *Qu.*, PhD *W.Ont.* Assoc. Prof.  
Pritchard, E. T., BSc *Car.*, MSc *McG.*, PhD *W.Ont.* Asst. Prof.  
Kay, C. M., BSc *McG.*, PhD *Harv.* Asst. Prof.  
McLeod, L. E., MSc *McG.*, BSc MD, FRCPCan Asst. Prof., Hon. Instr.

### Botany

Brodie, H. J., MSc *Manit.*, PhD *Mich.* Prof.

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Cormack, R. G. H., MA PhD *Tor.*,  
FRSCan Prof.  
Whyte, J. H., BSc(Agric) *Edin.*, MSc  
PhD *McG.* Prof.  
Prince, A. R., BA *Acad.*, PhD *Harv.*,  
BEd (Biol.) \*Assoc. Prof.  
Kennedy, Lorene L., PhD *Iowa*, MSc  
Assoc. Prof.  
MacLachlan, G. A., MA *Sask.*, PhD *Manit.*  
Asst. Prof.  
Packer, J. G., BSc *Lond.* Asst. Prof.

### Business Administration

..... Prof.  
Kyle, J. D., BA *Br.Col.*, MBA *W.Ont.*  
Asst. Prof.  
Preshing, W. A., MBA *W.Ont.*, BEd BA  
Asst. Prof.

### Chemistry

Brown, R. K., PhD *McG.*, MSc Prof.  
Gunning, H. E., MA PhD *Tor.* Prof.  
Sandin, R. B., PhD *Chic.*, MA, FRSCan Prof.  
Davis, S. G., PhD *McG.*, MSc Assoc. Prof.  
Harris, W. E., PhD *Minn.*, MSc Assoc. Prof.  
Allen, W. F., BSc *W.Ont.*, MA  
PhD *Tor.* \*Assoc. Prof.  
Hyne, J. B., BSc PhD *St.And.* Assoc. Prof.  
Wallace, W. J., BA *Br.Col.*,  
PhD *Purdue* Assoc. Prof.  
Crawford, R. J., PhD *Ill.*, MSc Asst. Prof.  
Dunford, H. B., PhD *McG.*, MSc \*Asst. Prof.  
O'Brien, R. N., MASc *Br.Col.*, PhD *Manit.*  
Asst. Prof.  
Adam, F. C., MSc *Br.Col.*,  
PhD *Wash.(Mo.)* \*Asst. Prof.  
Armstrong, D. A., BSc PhD *McG.* \*Asst. Prof.  
Ayer, W. A., BSc PhD *New Br.* Asst. Prof.  
Darwish, D., PhD *Calif.*, BSc Asst. Prof.  
Freeman, G. R., MA *Sask.*, PhD *McG.*,  
DPhil *Oxon.* Asst. Prof.  
Kearle, P., DipIngChem *E.T.H.Zürich*,  
PhD *Br.Col.* Asst. Prof.  
Birss, F. W., MA *Sask.*, DPhil *Oxon.*  
Asst. Prof.  
Krueger, P. J., MSc *Manit.*, DPhil *Oxon.*  
\*Asst. Prof.

### Classics

Hardy, W. G., MA *Tor.*, PhD *Chic.* Prof.  
Winspear, A. D., BA *Qu.*, MA *Oxon.*  
\*Assoc. Prof.  
Buck, R. J., MA *Kentucky*, PhD *Cinc.*,  
BA Asst. Prof.  
May, E. C., AB *Trin.Coll.Hartford*, AM  
PhD *Prin.* Asst. Prof.  
MacKenzie, Margery W., AM *Stan.*, BA  
BEd Asst. Prof., Radio Dir.

### Dentistry

MacLean, H. R., DDS, FACD (Oper. D.) Prof.  
Fraser, S. D., DDS, FACD (Prosth. D.) Prof.  
Castaldi, C. R., DDS *Tor.*, MSD *North-*  
*western* (Pedodontics) Prof.  
McMurchy, K. A., BA *Sask.*, DDS "  
(Oper. D.) Prof.

### Associate Professors

Haryett, R. D., DDS MSc *Tor.* (Orthodontics)  
Geldart, S. G., DDS (Oper. D.)  
MacGregor, D. G., DDS (Clin. Admin.)  
McPhail, C. W. B., MSD *Northwestern*,  
BSc DDS (Pub. Health)  
Stewart, D. R., DDS †(Prosth. D.)

### †Assistant Professors

Fee, A. D., DDS (Prosth. D.)  
Gibb, G. H., BSc DDS (Oper. D.)  
Samuels, H. L., BSc DDS (Periodontia)  
Van Alstine, R. S., MS *Mich.*, DDS (Oral Surg.)  
Eastwood, B. J., DDS (Orthodontics)

### †Lecturers

Basaraba, N., DDS (Pedodontics)  
Cameron, R. B., DDS LDS *Tor.* (D. Therap.)  
Diepenheim, J., Dip *Utrecht*, DDS (Oper. D.)  
Duke, C. G., DDS (Prosth. D.)  
Florence, D. E., DDS LDS *Tor.* (Hist. of D.)  
Mullen, R. P., BA *Sask.*, MSD *Northwestern*,  
DDS (Orthodontics) Asst.  
Hawkins, J. D., DDS (Oral Anat.)  
McClelland, R. C., DDS (Prosth. D.)  
MacDougall, D. H., DDS *Tor.* (Oper. D.)  
MacKenzie, B. M., DDS (Pedodontics) Sessl. Lectr.  
Little, J. S., BSc DDS (Oper. D.)  
Read, F. D., BSc DDS Sessl. Lectr.  
Robertson, G. R., DDS Sessl. Lectr.  
Sills, R. C., DDS (Prosth. D.)  
Steen, W. I. M., DDS (Oper. D.)  
Tegart, R. L., DDS (Oper. D.) Asst.  
Turner, R. W., BSc DDS (Oper. D.)

### Hon. Members

Clay, J. W., DDS *Penn. & Tor.*,  
LDS *W.Ont.*, ILLD (Exodontia)  
McIntyre, R. R., DDS LDS *Tor.*  
(Orthodontics) Hon. Prof.  
Husband, C. D., DDS (Local Anaesthesia)  
Ness, H. B., DDS *Minn.*, LDS *Sask.*  
(Crown & Bridge Work)  
Quigley, W. A., DDS *Tor.*, MS *Mich.*  
Hon. Prof.  
Rooney, R. A., DDS *Valparaiso*  
(Prosth. D.) Hon. Prof.

### Economics, see Pol. Econ.

### Educational Administration

Reeves, A. W., MA *Chic.*, EdD *Stan.*, BA Prof.  
Coutts, H. T., BA *Tor.*, PhD *Minn.*, MA Prof.  
Doucette, A. L., BScinCE *Dal.*, EdD *Stan.*,  
MA \*Prof., Dir., Calgary  
Sparby, H. T., PhD *Stan.*, BSc MA Prof.  
Mowat, G. L., BSc *Brigham Young*,  
MA EdD *Stan.* Prof.  
Aikenhead, J. D., BSc *Manit.*, MA *Chic.*,  
DEd *Oregon* \*Assoc. Prof.  
Andrews, J. H. M., MA *Br.Col.*, PhD *Chic.*  
Assoc. Prof.  
Downey, L. W., BA *Sask. & Br.Col.*,  
PhD *Chic.* Assoc. Prof.

Melsness, H. C., MA *Minn.*, BSc Assoc. Prof.  
 Cheal, J. E., MEd Asst. Prof.

### Educational Psychology

Dunlop, G. M., BA *Sask.*, PhD *Col.*, MA Prof.  
 Gilles, J. W., EdD *Stan.*, MA MEd  
 Prof., Dir. of Summer Session  
 MacArthur, R. S., PhD *Lond.*, MEd Prof.  
 Woodsworth, J. G., EdD *Stan.*, BA  
 BEd \*Assoc. Prof.  
 Anderson, C. C., MA EdB *Glas.*,  
 PhD *Camb.* Assoc. Prof.  
 Black, D. B., EdD *Wash.*, MEd Assoc. Prof.  
 Harper, R. J. C., MA *St.And.* & *Edin.*

Schonfield, A. E. D., MA *Camb.* \*Assoc. Prof.  
 Christensen, C. M., MA PhD *Minn.* Assoc. Prof.  
 Dockrell, W. B., BA *Manc.*, BEd *Edin.*

MacDonald, J., MA *Edin.*, EdB PhD *Glas.* Asst. Prof.  
 Stewart, J. A., BA *Br.Col.*, MA PhD *Wash.* Asst. Prof.

### Education, Elementary

McDougall, W. D., EdD *Col.*, MA Prof.  
 Finn, T. G., EdD AM *Stan.*, BA \*Prof.  
 Hodgson, W. E., MA *Minn.*, BA BEd Prof.  
 Caldwell, Muriel, BEd Assoc. Prof.  
 Lampard, Dorothy M., BA *Manit.*,  
 MA *Chic.* Assoc. Prof.  
 Newton, Bertha M., BScinEd *S.Calif.*,  
 AM *Chic.* \*Assoc. Prof.  
 Stadelbauer, Helen B., BSc AM *Col.*

(Art) \*Assoc. Prof.  
 Worth, W. H., MEd Assoc. Prof.  
 Forbes, J. A., MEd (Art) Assoc. Prof.  
 Hampson, C. G., BA \*Assoc. Prof.  
 Nelson, L. D., MEd Assoc. Prof.  
 Dey, Jean D., BEd Assoc. Prof.  
 Smith, A. A., MMus *Tor.* (Music) Assoc. Prof.  
 Churchley, E. F., MusBac *Tor.*, MA  
 EdD *Col.* (Music) \*Asst. Prof.  
 King, Ethel M., MEd *Iowa*, BEd \*Asst. Prof.  
 Norris, S., MA *Stan.*, BEd \*Asst. Prof.  
 Dodd, E. M., BA *Dun.*, MA *Ohio State*  
 \*Asst. Prof.

Doolittle, A. D., BA *Ithaca*, MM *Indiana*  
 \*Asst. Prof.  
 Jenkinson, Marion D., BA *Manc.*, PhD *Chic.*

Asst. Prof.  
 Moore, Evelyn R., BA *Syd.* Asst. Prof.  
 Diemert, Helen M., BA *St.Jos.* Asst. Prof.  
 Beaton, Mary A., BSc MEd \*Asst. Prof.  
 Filipkowski, Elizabeth, BEd Lectr.

### Education, Secondary

Baker, H. S., BA *Tor.*, PhD *Col.*, MA Prof.  
 Walker, B. E., PhD *Stan.*, Dipl *E.P.P.F.E.*,  
 Paris, MA Prof.  
 Buxton, E. W., MA *Wash.*, PhD *Stan.*,  
 BA BEd Prof.  
 Card, B. Y., BSc BEd Assoc. Prof.  
 Earl, S. A., BSc *Brigham Young*,  
 MEd *Montana* Assoc. Prof.

Lindstedt, S. A., BSc \*Assoc. Prof.  
 Pilkington, W., MA BEd Assoc. Prof.  
 Storey, A. G., BA BEd *Sask.*, MEd

\*Assoc. Prof.  
 Chorny, M., MEd \*Asst. Prof.  
 Crawford, D., BSc MA EdB *Glas.* Asst. Prof.  
 Farmer, Geraldine M., MA *Minn.*, BEd

Asst. Prof.  
 Lupul, M. R., MA *Minn.*, BA BEd Asst. Prof.  
 Nay, M. A., MSc BEd Asst. Prof.

Anderson, R. N., BA BEd *Sask.*,  
 MA *Minn.* \*Asst. Prof.  
 Godwin, Lois R., MEd Asst. Prof.

### Engineering, see below

### English

Jones, J. T., MA *Oxon.* & *Alta.* Prof.  
 Salter, F. M., BA *Dal.*, MA PhD *Chic.*,  
 DLitt *Tor.*, FRSCan, FRSL Prof.  
 Scargill, M. H., BA PhD *Leeds* \*Prof.  
 Kreisel, H., MA *Tor.*, PhD *Lond.* Prof.  
 Ryan, A. A., MA  
 Assoc. Prof.; Provost & Executive Asst.  
 to President

Elder, A. T., MA PhD *Tor.*, BA Assoc. Prof.  
 Godfrey, D. R., BA PhD *Dub.* Assoc. Prof.  
 Watson, W., BA *Br.Col.*, MA PhD *Tor.*

Assoc. Prof.  
 Baldwin, R. G., BA *Br.Col.*, MA PhD *Tor.*  
 Assoc. Prof.  
 Guy, E. F., MA *Dal.*, PhD *Edin.* \*Assoc. Prof.  
 Mandel, E. W., MA *Sask.*, PhD *Tor.*

Assoc. Prof.  
 Adam, I., MA *Lond.*, BA \*Asst. Prof.  
 Bessai, F., MA *Sask.* Asst. Prof.  
 White, Alice G., EdB *E.Illinois*, AM *Ohio*,  
 PhD *Iowa* Asst. Prof.

Sowton, I. C., MA *Tor.* Asst. Prof.  
 Steene, B., FilKand *Uppsala*, MA  
 PhD *Wash.* Asst. Prof.  
 Logie, L. J., MA *New Br. & Camb.*,  
 BEd *Tor.* \*Asst. Prof.

Cutts, J. P., MA *R'dg.*, BA *Camb.*,  
 PhD *Birm.* Asst. Prof.  
 McMaster, R. O., MA *Tor.* Asst. Prof.  
 Rose, E. J., AM *Brooklyn* Asst. Prof.  
 Bilsland, J. W., MA *Br.Col.*, PhD *Tor.*

Asst. Prof.  
 Chapin, D. F., MA *Tor.* Asst. Prof.  
 Forrest, J. F., MA BLitt *Gla.* AM *Corn.*  
 Asst. Prof.

### Fine Arts

Glyde, H. G. (Art) Prof.  
 Eaton, R. S., MusB *McG.* (Music) Prof.  
 Crighton, A. B., MusBac *Tor.*  
 (Music) Assoc. Prof.  
 Taylor, J. B. (Art) Assoc. Prof.  
 Peacock, G. B., MA *Carnegie Inst. of*  
*Technol.*, BEd (Drama) Assoc. Prof.  
 Nelson, Esther (Drama) Extension Asst. Prof.  
 Yates, E. N. (Art) Asst. Prof.  
 Rolston, T. (Violin) Asst. Prof.

Buechert, F. F., BEd *Sask.*, AM *Col.*  
(Drama) Asst. Prof.  
Stangeland, R. A., MusB *Miama (Ohio)*,  
MusM *Roch.* (Music) Asst. Prof.  
Wohlfarth, H. (Art) Extension Asst. Prof.  
Greene, G. K., BA BEd  
(Music) Extension Asst. Prof.  
Moore, Mrs. Joyce L. (Music) Sessl. Instr.

**French and German**, see Mod. Langs.

### Geography

Wonders, W. C., BA PhD *Tor.*, MA *Syr.* Prof.  
Laycock, A. H., BA *Tor.*, PhD *Minn.* Asst. Prof.  
Nelson, J. G., BA *McM.*, MA *Col.*,  
PhD *Johns H.* \*Asst. Prof.  
Smith, P. J., MA *N.Z.* Asst. Prof.  
Young, B. S., MA *Camb. & Rhodes* Asst. Prof.

### Geology

Folinsbee, R. E., MSc PhD *Minn.*, BSc Prof.  
Stelck, C. R., PhD *Stan.*, MSc Prof.  
Nelson, S. J., MAsc *Br.Col.*, PhD *McG.*  
Burwash, R. A., PhD *Minn.*, BEd MSc Assoc. Prof.  
Charlesworth, H. A. K., BA *Camb.*,  
PhD *Glas.* Assoc. Prof.  
Lerbekmo, J. F., BA BSc *Br.Col.*,  
PhD *Calif.* Asst. Prof.  
Taylor, R. S., BA MS PhD *Minn.* Asst. Prof.  
Campbell, F. A., BSc *Manit.*, MA *Qu.*,  
PhD *Prin.* Asst. Prof.  
Baadsgaard, H., BS *Minn.*,  
PhD *E.T.H. Zürich* Asst. Prof.  
Oliver, T., MSc *Manit.*, PhD *Calif.* \*Asst. Prof.

### History

Thomas, L. G., PhD *Harv.*, MA 'rof.  
Blackley, F. D., MA PhD *Tor.* 'rof.  
Eymann, F. G., PhD *Fran.* \*Assoc. 'rof.  
Self, G. M., MA *McG.*, PhD *Chic.* \*Assoc. 'rof.  
Eccles, W. J., MA PhD *McG.* Assoc. 'rof.  
Farnham, W. D., BA *Cornell Coll. (Iowa)*,  
MA *Col.*, PhD *Oregon* Assoc. Prof.  
Beachey, R. W., BA *Qu.*, PhD *Edin.* Assoc. Prof.  
Brock, P., MA DPhil *Oxon.*, PhD *Cracow*  
McNeal, R. H., BA *Yale*, MA PhD *Col.* Asst. Prof.  
Hertzmänn, L., BA *Tor.*, AM PhD *Harv.* Asst. Prof.  
Malone, J. J., MA *Wash.*, PhD *Lond.* Asst. Prof.  
Murray, A. L., BA *McM.*, MA *Lond.*,  
PhD *Penn.* Asst. Prof.  
Shields, R. A., MA *Manit.* \*Asst. Prof.  
Arnold, P., MA *Brooklyn* Sessl. Lectr.

### Household Economics

Empey, Elizabeth L., MNS *Corn.*,  
PhD *Col.*, BSc 'Prof., Dir.  
McIntyre, Hazel, MS *Ames*, BSc Prof.

Duggan, Grace L., MSc *Chic.*, BSc BEd Assoc. Prof.  
Campion, Margaret, BSc in HEc *Manit.*,  
MEd *Col.* Asst. Prof.  
Moseson, Helen, BSc Asst. Prof.  
Penner, R., PhD *Corn.*, BSc Asst. Prof.  
Lukianchuk, Zenovia Lectr.  
Cairns, Grace E., BSc  
Instr.; Dietitian, Univ. Cafeteria  
Mann, Lila G., BSHEc *Sask.*  
Dietitian, Univ. Residences  
Gowda, Mrs. Melvina, BSc †Lectr.  
Whidden, Mrs. Edith, BSc BEd *Sask.*  
†Sessl. Instr.  
Skrepneck, Natalie, BSc Asst. Dietitian

**Industrial Laboratories**, see p. 129

### Law

Bowker, W. F., QC, LL.M. *Minn.*, BA  
LLB (Jurisp.) Prof.  
Steer, G. H., QC, MA *Qu.*, LL.D. *Qu. & Alta.*  
Hon. Prof.  
Ford, Hon. Mr. Justice F., DCL *Tor.*,  
LL.D. *Laval & Alta.* Hon. Prof.  
Cairns, L. Y., QC, BA LL.D. Hon. Prof.  
Martland, Hon. Mr. Justice R., BCL *Oxon.*,  
BA LL.B. Hon. Prof.  
Smith, A., QC, JSD *Stan.*, BA LL.M. Prof.  
Thompson, A. R., LL.B. *Manit.*, LL.M. *Tor.*  
Assoc. Prof.  
Sherbaniuk, D. J., BA LL.B. Assoc. Prof.  
Angus, W. F., BA LL.B. *Tor.*, LL.M. *Col.*  
Asst. Prof.  
McDonald, D. C., BCL *Oxon.*, BA *Oxon. &*  
*Alta.* †Sessl. Lectr.  
Anderson, W., BA LL.B. *Sask.* Sessl. Instr.  
Hurlburt, W. H., BA LL.B. †Sessl. Instr.  
Laycraft, J. H., BA LL.B. \*†Sessl. Instr.  
Moir, A. F., LL.M. *Harv.*, BA LL.B. †Sessl. Instr.  
Shortreed, J. W. K., BA *Tor.*, LL.B. †Sessl. Instr.  
Steer, G. A. C., BA LL.B. †Sessl. Instr.  
Ackroyd, A. O., MEd LL.B. †Sessl. Instr.  
Guttman, E., LL.M. *Lond.* Sessl. Instr.

### Mathematics

Keeping, E. S., DIC, BSc *Lond.* Prof.  
Wyman, M., PhD *Cal.Tech.*, BSc,  
FRSCan Prof.  
Moser, L., BSc *Manit.*, MA *Tor.*,  
PhD *N.Carolina*, FRSCan Prof.  
Associate Professors  
Lorch, L., BA *Corn.*, MA PhD *Cinc.*  
Peck, J. E. L., MSc *S.A.*, PhD *Yale*  
Phibbs, E., MA *Camb.*  
Crosby, D. R., PhD *Prin.*, DPhil *Oxon.*, BSc  
Fostvedt, T., MS *Chic.*, BSc  
Gibb, A. A., MA *Tor.*, EdD *Stan.*, BSc  
BED (\*)  
Jacka, R. C., MS *Chic.*, BSc  
Horton, G. K., BSc *Lond.*, MSc PhD *Birm.*  
(Maths. & Theoret. Phys.)  
Lowig, H. F. J., DrRerNat *Prague*, DSc *Tas.*



McNamee, J., BE BSc *N.U.I.*, PhD *Lond.*  
 Narayana, T. V., MA *Madr. & Bom.*,  
 PhD *N.Carolina*  
 Robinson, R. O. A., BA PhD *Camb.*  
 Cree, G. C., MA *McG.*, PhD *Wash. (Mo.)*  
 Whitney, E. L., AM PhD *Harv.*, BSc  
 Bruce, W. J., PhD *Wash.*, MEd *Chic. & Alta.*  
 Sharp, W. T., BA *Tor.*, AM *Prin.*

#### Assistant Professors

Pounder, J. R., MA *Tor.*  
 Schneider, H., MA PhD *Edin.*  
 Israel, W., MSc *Cape T.*  
 McGregor, J. R., PhD *Camb.*, BSc MEd  
 Davies, I. J., BSc PhD *Wales*  
 Takeo, M., MS PhD *Oregon*

#### \*Lecturers

Holland, A. S. B., BSc *N.Z.*  
 Hyduk, Zennia M., MSc

#### Medicine, see below

#### Modern Languages

Greene, E. J. H., DU*Paris*, MA (French) Prof.  
 ..... (German) Prof.  
 Faucher, M., LenDroit *Paris*, MA *Calif.*  
 ..... (French) Assoc. Prof.  
 Samuel, G., MA *Glas.* (French) Assoc. Prof.  
 von Richthofen, E., DrPhil *Fran.*  
 (Romance Lang.) Assoc. Prof.  
 Starchuk, O., DrJur&RerPol *Chernowitz*  
 ..... (Russian) Assoc. Prof.  
 Reinhold, E., PhD *Mich.*, BSc MA  
 (German) Assoc. Prof.  
 Moore, C. H., BA *W.Ont.*, DU*Paris*  
 (French) Assoc. Prof.  
 Motut, R. G., BA *Laval*, BEd MA  
 (French) Asst. Prof.  
 Oyler, J. E., PhD *Northwestern*, MA \*Asst. Prof.  
 Szoverffy, J., PhD *Bud.*, DrPhil *Habil Frib.*  
 (German) Asst. Prof.  
 Arnold, A., LèsL, PhD *Frib.*  
 (German) Asst. Prof.  
 Scott, Allison P., MA BLit *Oxon.*, PhD *Qu.*  
 (German) Asst. Prof.  
 Harnis, A., BA *Sask.* (French) \*Asst. Prof.  
 Plaskacz, B., BSc *Lwow*, Lic *Madrid*,  
 PhD *Ott.* Asst. Prof.  
 Slavutych, Y., AM PhD *Penn.* Asst. Prof.  
 Colter, Carla K. A., BA *McG.* Asst. Prof.  
 Chanal, H., LèsL *Lyons* (Russian) Lectr.  
 L'Abbé, Germaine, MA *Qu.* (French) \*Lectr.

#### Nursing, see Medicine, below

#### Philosophy and Psychology

Mardiros, A. M., MA *Melb.*, MLit *Camb.*  
 (Philos.) Prof.  
 Smith, D. E., MA *Qu.*, PhD *Harv.*  
 (Psychol.) Prof.  
 Hirabayashi, G. K., MA PhD *Wash.*  
 (Sociol.) Assoc. Prof.  
 Spearman, D., MA *McG.*, MA PhD *Montr.*  
 (Psychol.) Assoc. Prof.

James, R. L., MA *Wayne*, PhD *Oregon*  
 (Sociol.) Assoc. Prof.  
 Miles, R. C., MS *Idaho*, PhD *Ohio State*  
 (Psychol.) Assoc. Prof.  
 Penelhum, T. M., MA *Edin.*, BPhil *Oxon.*  
 (Philos.) Assoc. Prof.  
 Schonfield, A. E. D., MA *Camb.* \*Assoc. Prof.  
 Winspear, A. D., BA *Qu.*, MA *Oxon.*  
 (Philos.) \*Assoc. Prof.  
 Wilson, Lolita, MA *Br.Col.*  
 (Psychol.) Assoc. Prof.  
 Hough, A. J. B., LTh *St.John's (Manit.)*,  
 MA *W.Ont.* (Psychol.) Assoc. Prof.  
 Heinz, J. W., AB *St.Lawrence*  
 (Philos.) Asst. Prof.  
 French, C. L., AM PhD *Wash.(Mo.)*  
 (Sociol.) Asst. Prof.  
 Hostetler, J. A., BS *Goshen*, MA  
 PhD *Penn.State* (Sociol.) Asst. Prof.  
 Lambert, J. L., BA *Willamette*, MS *Oregon*,  
 PhD *Mich.State* (Philos.) Asst. Prof.  
 Laskin, R., BA *C.C.N.Y.*, MA  
 PhD *Penn.State* (Sociol.) Asst. Prof.  
 MacCannell, E. H., MA BSc PhD *Wash.State*  
 (Sociol.) Asst. Prof.  
 Radcliff, P., BA *Oberlin*, MA PhD *Wash.*  
 Asst. Prof.  
 Uhl, C. N., BA *Stan.*, MS PhD *Oregon*  
 (Psychol.) Asst. Prof.  
 Zentner, H., BA *Br.Col.*, MA PhD *Stan.*  
 (Sociol.) \*Asst. Prof.

#### Physical Education

Van Vliet, M. L., MS *Oregon*, EdD *Calif.* Prof.  
 Smith, W. D., BPHE *Tor.*, MA *Calif.*,  
 EdD *Buffalo* Prof.  
 Goodwin, L., BA MEd \*Prof.  
 Eriksson, A. W. E., MSc *Wash.*, BSc  
 Assoc. Prof.  
 Austin, Patricia L., BPHE *Tor.*, AM *Col.*  
 Assoc. Prof.  
 McLachlin, H. J., BSc *McG.*, MS *Wash.*  
 Assoc. Prof.  
 Affleck, A. F., BPHE *Tor.*, BEd Asst. Prof.  
 Alexander, J. F., BS MA *Notre Dame* Asst. Prof.  
 Anderson, Ruby O., BEd Asst. Prof.  
 Cogswell, Margaret O., BA \*Asst. Prof.  
 Mendryk, S., BEd(inPhysEd) Asst. Prof.  
 Carson, Audrey M., BEd Asst. Prof.  
 Fracas, G., BA *W.Ont.* Asst. Prof.  
 Smith, M. F. R., BEd Asst. Prof.  
 Macintosh, D. D., BEd(inPhysEd) \*Asst. Prof.  
 Drake, C. J., BPE *Br.Col.*, BEd Asst. Prof.  
 Hendrickson, Mary P., BA BPE Asst. Prof.  
 Duquette, Shirley A., BSc in Ed *Cinc.* \*Instr.  
 Frache, Elvira J., BSc in IEc BEd Instr.  
 Gillingwater, Doreen A. Instr.  
 McCleary, Mary I. P., BEd in PE \*Instr.

#### Physics

Grayson-Smith, H., MBE, MA PhD *Tor.*,  
 FRSCan Prof.  
 Scott, D. B., BA *Tor.*, PhD *McG.* Prof.

- Newbound, K. B., MSc *Manit.*, PhD *M.I.T.* Prof.  
 Bhatia, A. B., MSc DPhil *Alld.*, PhD *Liv.* Prof.  
 Garland, G. D., MA *Tor.*, PhD *St.Louis*  
 (Geophys.) Prof.  
 Harrold, J. H., MA PhD *Tor.* Assoc. Prof.  
 Trainor, L. E. H., MA *Sask.*, PhD *Minn.*  
 Assoc. Prof.  
 Schiff, H., MSc PhD *McG.* Assoc. Prof.  
 Wilson, B. G., BSc *Belf.*, PhD *N.U.I.*  
 \*Assoc. Prof.  
 Woods, S. B., MA *Sask.*, PhD *Br.Col.*  
 Assoc. Prof.  
 Challice, C. E., BSc PhD *Lond.*, FIP  
 \*Assoc. Prof.  
 Betts, D. D., MSc *Dal.*, PhD *McG.* Asst. Prof.  
 Cumming, G. L., MA *Sask.*, PhD *Tor.*  
 Asst. Prof.  
 Lipson, J., BA *Yale*, PhD *Calif.* Asst. Prof.  
 Buckmaster, H. A., MA PhD *Br.Col.*,  
 BSc \*Asst. Prof.  
 Terentiuk, F., MA PhD *Br.Col.*, BSc  
 Asst. Prof.  
 Manchester, F. D., MSc *N.Z.*, PhD *Br.Col.*  
 Asst. Prof.  
 Neilson, G. C., MA PhD *Br.Col.* Asst. Prof.  
 Sample, J. T., MA PhD *Br.Col.* Asst. Prof.  
 Dawson, W. K., BSA *Laval*, MA PhD *Qu.*  
 Asst. Prof.  
 Venkatesan, D., BSc *Ban.*, PhD *Illd.*  
 \*Asst. Prof.  
 Vozoff, K., BS *Minn.*, MS *Penn.*,  
 PhD *M.I.T.* Asst. Prof.  
 Weichman, F. L., BS *Brooklyn*,  
 PhD *Northwestern* \*Assoc. Prof.
- Physiology and Pharmacology**
- Pearce, J. W., MD CM *Qu.*, DPhil *Oxon.* Prof.  
 Nash, C. W., BSc *Manit.*, MS PhD *Minn.* Prof.  
 Hohn, E. O., MB BS MSc PhD *Lond.*  
 Assoc. Prof.  
 Heath, C., PhD *Minn.*, MSc Assoc. Prof.  
 Chapman, K. M., BA MS *Minn.* Asst. Prof.  
 Cottle, W. H., MA *Br.Col.*, PhD *Wash.*  
 Asst. Prof.  
 Gillis, C. N., BSc PhD *Glav.* Asst. Prof.  
 Cameron, D. F., BA MD Lectr.  
 Cottle, Mrs. Mervak, MA *Br.Col.*,  
 PhD *Wash.* Lectr.  
 Taylor, J. D., PhD *Sask.*, MSc Lectr.  
 Nursall, Mrs. Mary, BA *Tor.*, MA *Sask.* †Instr.  
 Scragg, R. D., BSc MD †Instr.  
 Haryett, R. D., DDS MSc *Tor.* Hon. Lectr.  
 Speakman, T. J., MD *Manit.*, MSc *McG.*  
 Asst. Clin. Prof.  
 McCalla, R. I., BSc MD †Sessl. Instr.  
 Wiancko, K. B., MD †Sessl. Demr.  
 Weston, R. B., MB BCh *N.U.I.*  
 Teaching Fellow  
 Taylor, R. F., BSc MD CM *McG.* Demr.
- Political Economy**
- Hanson, E. J., BA *Qu.*, PhD *Clark*, MA Prof.  
 Anton, F. R., BSc *Lond.*, MA *Calif.* Assoc. Prof.
- Gainer, W. D., MS *Iowa*, PhD *Mass.*,  
 BSc (Bus. Admin.) Assoc. Prof.  
 Goundrey, G. K., BA *Br.Col.*, MA *Tor.*  
 Assoc. Prof.  
 Mackenzie, W., BSc *Glas.*, BLitt *Oxon.*,  
 MS *Corn.* Assoc. Prof.  
 Davy, G. R., BA *W.Ont.*, PhD *Fletcher*  
 Assoc. Prof.  
 Baird, R. E., MA *Aug. & Ill.* Asst. Prof.  
 Bauer, M. F., BA *W.Ont.*, MA *Tor.* Asst. Prof.  
 Bociurkiw, B. R., MA *Manit.*, PhD *Chic.*  
 Asst. Prof.  
 Boote, M. J., BA *Wales*, PhD *McG.* Asst. Prof.  
 Dawson, W. F., BA *Tor.*, MA *Qu.*,  
 DPhil *Oxon.* Asst. Prof.  
 Powrie, T. L., BSA MA *Sask.*, DPhil *Oxon.*  
 Asst. Prof.  
 Winch, D. M., BSc PhD *Lond.* Asst. Prof.
- Psychology**, see Philos. and Psychol.
- Russian**, see Mod. Langs.
- Zoology**
- Hartland-Rowe, C. B. R., BSc PhD *Lond.*  
 \*Assoc. Prof.  
 Prince, A. R., BA *Acad.*, PhD *Harv.*  
 \*Assoc. Prof.  
 Nursall, J. R., MA *Sask.*, PhD *Wis.* Assoc. Prof.  
 Mackie, G. O., MA DPhil *Oxon.* Asst. Prof.  
 Hickman, C. P., AB *DePaul*, PhD *Br.Col.*  
 & *Calif.*, MS *New Hampshire* Asst. Prof.  
 Holmes, J. C., BA *Minn.*, MA PhD *Rice*  
 Asst. Prof.  
 Lewin, V., BA *Calif.* Asst. Prof.  
 Fuller, W. A. L., MA *Sask.*, PhD *Wis.*  
 Asst. Prof.
- AGRICULTURE**
- Agricultural Engineering**
- MacHardy, F. V., BE *Sask.*,  
 MS *Northwestern* Prof.  
 Stephanson, B. T., BE *Sask.* Assoc. Prof.
- Animal Science**
- McElroy, L. W., PhD *Calif.*, MSc Prof.  
 Clandinin, D. R., MSA *Br.Col.*, PhD *Wis.*  
 (Poultry) Prof.  
 Robblee, A. R., PhD *Wis.*, MSc (Poultry) Prof.  
 Ball, A. G., BSA *Tor.*, MS PhD *Iowa*  
 State (Farm Management) Prof.  
 Bowland, J. P., BSA *Manit.*, MS *Wash.*,  
 PhD *Wis.* Assoc. Prof.  
 Berg, R. T., MS PhD *Minn.*, BSc Assoc. Prof.  
 O'Donoghue, J. G., DVM *Tor.*  
 (Vet. Sci.) †Lectr.
- Dairy Science**
- Clegg, L. F. L., BSA *Tor.*, PhD DSc *Lond.*  
 Prof.  
 Wood, F. W., MSc Asst. Prof.  
 de Man, J. M., PhD Asst. Prof.

**Entomology**

- Hocking, B., BSc PhD *Lond.*, MSc Prof.  
 Ball, G. E., AB PhD *Corn.*, MS *Alabama*  
 Assoc. Prof.  
 Evans, W. G., MS PhD *Corn.* Asst. Prof.

**Plant Science**

- Unrau, J., BSA MSc *Sask.*, PhD *Wash.*  
 (Genetics & Plant Breeding) Prof.  
 McCalla, A. G., PhD *Calif.*, MSc, FRSCan Prof.  
 Henry, A. W., MSA *Sask.*, PhD *Minn.*  
 (Plant Pathol.) Prof.  
 Johnson, L. P. V., PhD *Wash.*, MSc  
 (Genetics & Plant Breeding) Prof.  
 Corns, W. G., PhD *Tor.*, MSc (Crop Ecol.) Prof.  
 Weijer, J., MSc PhD *Gron.* (Hortic.) Prof.  
 Andrew, W. T., MS *Utah State*,  
 PhD *Mich.State*, BSc Assoc. Prof.  
 Knowles, R. H., BSA *Tor.*, MSc  
 (Hortic.) Assoc. Prof.  
 Smith, W. E., PhD *Nebraska*, MSc  
 (Field Crops) Assoc. Prof.  
 Zalik, S., BSA MSc *Manit.*, PhD *Purdue*  
 (Physiol. & Biochem.) Assoc. Prof.  
 Skoropad, W. P., PhD *Wis.*, MSc  
 (Plant Pathol.) Asst. Prof.

**Soil Science**

- Bentley, C. F., PhD *Minn.*, MSc Prof.  
 Toogood, J. A., PhD *Minn.*, BSc Prof.  
 Robertson, J. A., MSc *Manit.* Asst. Prof.  
 Lynch, D. I., BSc PhD *Ill.*, MS *Delaware*  
 Asst. Prof.  
 Pawluk, S., PhD *Minn.*, MSc Asst. Prof.  
 Webster, G. R., MSc *Br.Col.*, PhD *Oregon*  
 Asst. Prof.

**ENGINEERING**

(See also Industrial Labs. and Res. Council of  
 Alberta, p. 129)

**Chemical Engineering**

- Govier, G. W., BASc *Br.Col.*, ScD *Mich.*,  
 MSc Prof.  
 Robinson, D. B., MASc *Br.Col.*, PhD *Mich.* Prof.  
 Dranchuk, P. M., BSc Assoc. Prof.  
 Dalla Lana, I. G., BASc *Br.Col.*,  
 PhD *Minn.*, MSc Assoc. Prof.  
 Flock, D. L., MS *Oklahoma*,  
 PhD *Texas Agric.* Assoc. Prof.  
 Ritter, R. A., BE MSc *Sask.* Assoc. Prof.  
 Quon, D., ScD *M.I.T.*, MSc Assoc. Prof.  
 Hart, R. T., MS *Stan.* Asst. Prof.  
 Lilleleht, L. U., BChE *Delaware*,  
 MSE *Prin.* Asst. Prof.  
 Nader, W., DipIng DPh *Vienna* Asst. Prof.  
 Habgood, H. W., MSc *Qu.*, PhD *Mich.*  
 †Sp. Lectr.  
 Zwolinski, J. J., BSc *Lond.* †Sp. Lectr.

**Civil and Municipal Engineering**

- Blench, T., BSc *Glas.*, DSc, MICE  
 (Irrigation E.) Prof.

- Gads, L. E., BSc  
 (Civil E.) Prof., Sec., Fac. of Engin.  
 Ford, G., PhD *Stan.*, MSc Prof.

**Associate Professors**

- Bigg, W. I., BSc (Drawing)  
 Preston, W. W., BSc *Qu.*  
 (Drawing & Descriptive Geom.)  
 Sinclair, S. R., MSc (Civil E.)  
 Bouthillier, P. H., SM *Harv.*, BSc (Civil E.)  
 Fowler, E. L., MSc  
 McArthur, H. R., BASc *Br.Col.*, MA *Wash.* (\*)  
 Peterson, A. W., MSc  
 Longworth, J., MSc *Ill.*, BSc (Appl. Mech.)  
 Duby, J., MA DPhil *Oxon.*, BSc  
 Kennedy, J. S., MSc  
 Stilwell, W. H., BA *Drake*, MA *Tor.* (\*)

**Assistant Professors**

- Ansley, R. W., BA BSc *Qu.*, MSc  
 Bakker, J. J., BSc *Glas.*, DIC, MSCE *Purdue*  
 Verschuren, J. P., Ir *T.H.Delft*  
 Anderson, K. O., BSc  
 Simmonds, S. H., MSc  
 Glockner, P., BSc *McG.*, MSc *M.I.T.* (\*)  
 Baron, M. J., MSc *Ill.*, BSc  
 Brooker, E. W., MSc  
 MacGregor, J. G., MSc *Ill.*, BSc  
 Warwaruk, J., MSc *Ill.*, BSc

†Special Lecturer

- McManus, R. N., PhD *Ill.*, MSc

**Electrical Engineering**

- Harle, J. A., MSc *Durh.*, MIEE Prof.  
 Porteous, J. W., MSc Prof.  
 Phillips, R. E., BSc Assoc. Prof.  
 Panar, D., MSc *Mich.* (Mech. E.) Assoc. Prof.  
 Sadler, G. W., BSc *Sask.*, MSc *Ill.* Assoc. Prof.  
 King, R. W., BSc Asst. Prof.  
 Clarke, K. G., BSc *Qu.* Asst. Prof.  
 Haddow, J. B., BSc *St.And.* Asst. Prof.  
 Johnson, E. W., BSc *Lond.* (Mech. E.) Asst. Prof.  
 Fokkinga, Y. J., Ir *T.H.Delft* Asst. Prof.  
 Kelly, D. H., MSc Asst. Prof.  
 Rodkiewicz, C. M., DipIng *Polish Univ.*  
*inExile* Asst. Prof.

**Mining and Metallurgy**

- Lilje, E. O., MSc Prof.  
 Patching, T., BSc Prof.  
 Parr, J. G., BSc *Leeds*, PhD *Liv.* Prof.  
 Leja, J., BSc *Lond.*, PhD *Camb.* Assoc. Prof.  
 Youdelis, W. V., MSc PhD *McG.*, BSc  
 Asst. Prof.

**MEDICINE**

(For subjects of first 2 yrs.—Anat., etc., see above)

**Anæsthesia**

- Carmichael, J. E., BSc MD CM *Qu.* Hon. Instr.  
 Gain, E. A., BA MD †Prof.  
 Cameron, D. F., MBE, BA MD †Lectr.  
 Nix, N. W., BSc MD †Instr.  
 Moonie, G. T., BA *Sask.*, MD †Instr.  
 Graham, W. H., MB BCH BAO *Belf.*  
 Sessl. Instr.

**Bacteriology**

- Stuart, R. D., DPH *Aberd.*, ChB MD DSc,  
FRFPGlas Prof.  
Myers, G. E., PhD *McG.*, MSc Prof.  
Penikett, E. J. K., MB BS PhD *Lond.*  
Assoc. Prof.  
Carmichael, J. W., PhD *Harv.*, MSc  
Assoc. Prof.  
Toshach, Sheila R., MA *Tor.*, BSc Asst. Prof.  
..... Asst. Prof.  
Williams, Mrs. Mary E., MB ChB *Liv.*  
Asst. Prof.  
Goodman, Yvonne, BSc Sessl. Instr.  
Hnatko, S. I., MSc *Tor.*, MD Sessl. Instr.

**Dermatology**

- Rentiers, P. L., MSc *Minn.*, BA MD  
†Asst. Clin. Prof.  
Dixon, A., MS *Minn.*, BSc MD †Lectr.

**Medicine and Clinical Medicine**

- Wilson, D. R., BA *Oxon.*, MD CM *McG.*,  
FRCPCan, FACP Prof.  
Dvorkin, J., BA MD (Clin. M.) †Asst. Prof.  
Sprague, P. H., MSc *Minn.*, MD, FACP  
Assoc. Prof.  
Fraser, R. S., MD MSc, FRCPCan Assoc. Prof.  
Gilbert, J. A. I., MD ChB *Edin.*, FRCPCan,  
FRCPEd Assoc. Prof.  
Monckton, G., MD *Lond.*, FRCPCan  
Assoc. Prof.  
Dyrenfurth, Inge, MSc *Berl.*, PhD *Heidel.*  
(Exper. M.) Asst. Prof.  
Elliott, J. F., BA MD, FRCPCan, FACP  
(Clin. M.) †Clin. Prof.  
Greenhill, S., DPH *Tor.*, MD (Clin. M.) †Prof.  
Hamilton, K. A., BA *Tor.*, BA BM  
BCh *Oxon.*, FRCPCan, FACP  
(Clin. M.) †Clin. Prof.  
Rich, C. B., BS *Lond.*, FRCPCan  
(Clin. M.) †Clin. Prof.  
Thomson, R. K. C., BSc MD, FACP  
(Neurol.) †Clin. Prof.  
Wheeler, B. M., MBE, MD, FRCPCan  
(Clin. M.) †Clin. Prof.  
Bell, G. I., BA MD, FACP (Clin. M.) †Lectr.  
Bramley-Moore, W., MD (M. Econ.) Lectr.  
Carpendale, M. T. F.  
(Rehabilitation M.) †Lectr.  
Donald, E. F., MD (Clin. M.) †Lectr.  
Elliott, F. G., MD CM *Qu.*, FACP  
(Clin. M.) †Lectr.  
Kidd, E. G., BSc MD (Clin. M.) †Lectr.  
Little, A. S., MD *Manit.*, FRCPCan  
Clin. Lectr.  
McLeod, L. E., MSc *McG.*, BSc MD,  
FRCPCan †Asst. Prof.  
Matas, M., MD (Clin. M.) †Lectr.  
Stephens, H. H., MD (Clin. M.) †Lectr.  
Whiting, R. H., BA *Tor.*, MD CM *McG.*,  
FRCPCan, FACP (Clin. M.) †Lectr.  
Anderson, A. F., MD CM *Manit.*  
(Clin. M.) Hon. Instr.  
Aaron, T. H., BSc MD (Clin. M.) †Instr.

- Bell, D. M., BA MD (Clin. M.) †Lectr.  
Brown, G. D., BSc MD (Clin. M.) †Instr.  
Cairns, A., MD (Clin. M.) †Instr.  
Downs, W. J., MD CM *McG.*, BA  
(Clin. M.) †Instr.  
Edwards, A. M., BSc MD, FRCPCan †Instr.  
Hopkins, J. C. W., BM BCh MA *Oxon.*  
(Clin. M.) †Instr.  
Preece, C. G., MD *Tor.* (Clin. M.) †Instr.  
LeFebvre, C., BA *Laval*, MD Instr.  
McCormack, C. W., MD CM *McG.*,  
DPH *Tor.* †Instr.  
Sereda, M. M., MD †Instr.  
Sherman, L., MB *Poznan* †Instr.  
Zalesky, N., MD *Prague & Lwow* †Instr.  
St. Clair, W. R., MB ChB *Edin.*,  
MRCPEd †Instr.  
Young, M. K., MD Instr.  
Bala, R. M., MD Sessl. Instr.  
Holmes, I. H., BA MD *Manit.* †Sessl. Instr.

**Nursing**

- McClure, Ruth E., MPH *Pitt.*, BSc Assoc. Prof.  
McMillan, Patricia, MA *Col.*, BSc Asst. Prof.  
Campbell, Margaret M., BSc *Br.Col.*,  
MPH *Mich.* Asst. Prof.  
Madden, Margaret M., BA *Sask.*  
(Obstet.) Lectr.

**Obstetrics and Gynaecology**

- Vant, J. R., BA *Sask.*, MD *Manit.*,  
FRCOG, FACS, FRCSCan †Prof.  
Day, A., MB *Tor.* †Hon. Clin. Prof.  
Horner, R. H., MD, FACS †Clin. Prof.  
Clarke, T. R., MD †Asst. Clin. Prof.  
Hutton, Margaret MacS., BA MD,  
FRCSCan, FACS †Asst. Clin. Prof.  
MacLennan, A. H., BSc MD, FACS  
†Asst. Clin. Prof.  
Bell, D. M., MD, FRCSCan †Lectr.  
Frew, W. D., MB ChB *Edin.*, FRCSCan,  
FACS †Clin. Prof.  
Nelson, T. R., MB ChB *Edin.*, FRCSCan  
Assoc. Prof.  
Parlee, S. S., BSc MD, FACS †Lectr.  
Quehl, E., MD †Lectr.  
Ritchie, D. C., BSc MD, FACS †Lectr.  
Boyd, J. A., BA *Sask.*, MD *Manit.*,  
FRCSCan Lectr.  
Bugis, J., BA MD †Instr.  
Dorsey, F. R. J., BSc MD †Instr.  
Leeder, J. R., BSc MD †Instr.  
Trueman, Evelyn G. T., BSc MD Sessl. Instr.  
Ostroslosky, R. J., BSc MD, FRCSCan  
Hon. Sessl. Instr.  
Yoneda, Y., MD, FRCSCan †Clin. Lectr.  
Brown, L. B., BSc MD †Teaching Fellow  
Ferguson, W. F., MD Teaching Fellow

**Ophthalmology and Oto-Laryngology**

- Boyd, T. A. S., MB ChB *Glas.*, FRCS  
Assoc. Prof.  
Armstrong, W. S. S., MD CM *McG.*  
(Rhino-Oto-Laryngol.) †Asst. Clin. Prof.

Clarke, K. A. C., MC, BSc MD  
(Rhino-Oto-Laryngol.) †Asst. Clin. Prof.  
Duggan, J. W., MMS *Tulane*, MD,  
FRCSCan, FACS  
(Ophthalmol.) †Assoc. Prof.  
Robertson, R. W., BSc MD †Lectr.  
Wilson, T. C., MD *Tor. & Qu.*, CM *Qu.* †Lectr.

### Orthopaedics

Rostrup, O., MD, FACS, FRCSCan,  
FAAOS †Clin. Prof.  
Huckell, R. G., MD CM *McG.*, BSc,  
FAAOS, FACS Hon. Clin. Prof.  
Johnston, D. C., MD, FRCSCan †Lectr.  
Moreau, J. P., BA *Laval*, MD, FRCSCan  
†Lectr.  
Cameron, G. W., MD CM *McG.*, FRCSCan  
†Lectr.  
Wilson, G. L., MD †Lectr.  
Day, F. G., MChOrth *Liv.*, BSc MD,  
FRFSGlas †Instr.  
Gray, G. C., MD *Tor.* †Instr.  
Henderson, R. S., FRCS, FRCSCan, FACS  
†Instr.

### Pædiatrics

Martin, J. K., MB BS *Lond.*, MRCP †Prof.  
Taylor, W. C., MB ChB *Aberd.*, FRCPCan  
Assoc. Prof.  
Calder, J., MD †Clin. Prof.  
Gander, T. A., MBE, MD †Assoc. Prof.  
Armstrong, H. B., MD †Asst. Clin. Prof.  
Beauchamp, L. E., BSc MD †Lectr.  
Duncan, N. F., BSc MD †Lectr.  
Grisdale, L. C., BSc MD †Asst. Clin. Prof.  
Poirier, R., BA MD *Montr.*  
Swallow, Kathleen A., BSc MD Asst. Clin. Prof.  
Conradi, G., MD *Jena* †Instr.  
Kimmitt, P. J., BSc MD †Sessl. Instr.  
Nelson, Jean, MB ChB *Aberd.* Sessl. Instr.

### Pathology

MacGregor, J. W., BA MD, FRCPCan  
Provincial Pathologist, Prof.  
Stirrat, J. H., BSc MD ChB *Glas.*  
Prov. Pathologist, Prof.  
Hall, M. E., BA MD *Tor.* Hon. Assoc. Prof.  
Bain, G. O., BSc MD Assoc. Prof.  
Bell, R. E., MD (Clin. P.) Asst. Prof.  
Hanson, S., MD Asst. Prof.  
Weinlos, M., BA MD, FRCSEd,  
FRCSCan †Asst. Prof.  
Cantor, M. M., BSc MD *Manit.*, FACP  
(Med. Jurisp.) †Asst. Clin. Prof.  
Davey, P. W., MD CM *Qu.* †Asst. Prof.  
Macdonald, G. R., BSc MD †Asst. Prof.  
Sereda, M. M., MD †Lectr.  
Shnitka, T. K., MSc MD Asst. Prof.  
Bell, H. E., BSc MD †Instr.  
Little, A. S., MD *Manit.*, FRCPCan Lectr.  
Michalyshin, B., MD, FRCSCan Clin. Prof.  
Ritchie, D. C., BSc MD, FACS Lectr.  
Christensen, A. H., BSc MD †Instr.  
Buchanan, D. I., MB ChB *Glas.* Lectr.  
Swallow, R. J., BA *Sask.*, MD †Instr.

Best, Barbara J., BSc *Car.* †Sessl. Instr.  
Comfort, Darlene J. Sessl. Instr.  
Matheson, Jean I., BA *Sask.* †Sessl. Demr.  
Lashuk, Lillian Sessl. Demr.  
Newson, Dora A., BA MD †Demr.

### Pharmacology, sec Physiol., above

### Pharmacy

Huston, M. J., PhD *Wash.*, MSc Prof.  
Riedel, B. E., PhD *W. Ont.*, MSc Prof.  
Anderson, A. J., MS *Wash.*, BSc Assoc. Prof.  
Palmer, K. H., MPharm *Nott.*, DU*Paris*  
Asst. Prof.  
Morrison, J. C., BSc PhD *Glas.* Asst. Prof.  
Maday, W. W., BSc †Sessl. Instr.  
Ritchie, D. E., BSc †Sessl. Instr.  
Stewart, D. J., BSc *Sask.*, MSc *Ill.* †Sessl. Instr.  
James, K. M., MSc *Sask.* †Sessl. Instr.  
Kassian, T. W., BSc †Sessl. Instr.  
Sprague, W. H. †Sp. Lectr.

### Physiotherapy

Fowler, J. R., MD (Phys. Med.) Prof.  
Rendell, Nancy Asst. Prof.  
Gordon, Moyna J. Asst. Prof.  
Faulds, A. C. Asst. Prof.  
Allbon, L. C. (Occupnl. Therapy), Lectr.  
Adamson, M. C., BA MD *Manit.* †Sessl. Instr.  
Finnegan, P. D. †Sessl. Instr.  
Rowand, Elizabeth F. †Sessl. Instr.

### Preventive Medicine

Greenhill, S., MD DPH *Tor.* Prof.  
Hogge, H. L., BSc †Lectr.  
Preece, C. G., MD *Tor.* †Instr.

### Psychiatry

Yonge, K. A., MD CM *McG.*, DPM *Lond.* Prof.  
Spaner, S., BA MD †Clin. Prof.  
MacLean, R. R., MD Hon. Clin. Prof.  
McAlister, W. J., MC, MD CM *McG.*  
Hon. Instr.  
McCullough, D. L., BA MD BCL *Dub.*,  
DPM *Lond.* Hon. Instr.  
Michie, T. C., MD Hon. Lectr.  
le Vann, L. J. Hon. Lectr.  
Forsger, W., MB BS *Durh.*, DPM *Lond.*  
Assoc. Prof.  
Guild, J., BSc MD Asst. Clin. Prof.  
MacPherson, A. D., DSO, MD  
†Asst. Clin. Prof.  
Schrag, A. R., MD †Asst. Clin. Prof.  
Chenard, Imelda, MSS *Laval* †Asst. Prof.  
Jellinek, E. M., MD Hon. Sessl. Lectr.  
Phillips, D. I. G., MD †Sessl. Lectr.  
Carson, G. D., MD †Sessl. Instr.  
Edwards, F. J., MD *McG.* Sessl. Instr.  
Morrison, Mary A., MSW *McG.* †Sessl. Instr.  
Paterson, J. I., BSc MD †Sessl. Instr.  
Selinger, Z., MD *Montr.* †Sessl. Instr.  
Sigurdson, W. E., MD †Sessl. Instr.

**Radiology**

Duggan, H. E., MD †Prof.  
 Clare, R. McC., MD †Lectr.  
 Hyndman, C. F., MD CM *Qu.* †Lectr.  
 Mallett, M., MD CM *McG.* †Lectr.  
 Hall, R. M., MD *Tor.*, DMR *Lond.* †Instr.  
 Holmes, C. E., BA MD †Sessl. Instr.  
 Dick, D. A. L., MB ChB *Edin.*, FFR †Sessl. Instr.

**Surgery and Clinical Surgery**

MacKenzie, W. C., BSc MD CM *Dal.*,  
 MS *Minn.*, FACS, FRCSCan †Prof.  
 Anderson, W. S., MD MS *Tor.*, BSc,  
 FACS, FRCSCan Prof.  
 Couves, C. M., BA *Sask.*, MD *Manit.*,  
 FRCSCan Assoc. Prof.  
 Harrison, R. C., MS *Tor.*, MD, FRCSCan,  
 FACS Assoc. Prof., Dir. of Exper. Surg.  
 Macbeth, R. A., MSc *McG.*, BA MD,  
 FRCSCan, FACS Assoc. Prof.  
 Kowalewski, K. P., MD PhD *Brussels*,  
 MPH *Warsaw* (Exper. S.) Assoc. Prof.  
 Blas, The Hon. A., MD BS *Laval*, FACS  
 (Clin. S.) Hon. Prof.  
 Ellis, G. N., BA MD CM *Qu.*, FACS  
 (Urol.) †Hon. Clin. Prof.  
 Alexander, N. E., MD, FACS  
 Hon. Assoc. Clin. Prof.  
 Anderson, R. L., MD, FACS, FRCSCan  
 Hon. Assoc. Prof.  
 Wilson, T. S., BSc *New Br.*, MD *Tor.*,  
 FRCSCan, FACS (Clin. S.) †Clin. Prof.  
 Morton, G. K., MD (Neurosurg.) †Clin. Prof.  
 Michalyshin, B., MD, FRCSCan †Clin. Prof.  
 Willox, G. L., MD, FRCSCan, FACS  
 †Clin. Prof.  
 Metcalfe, J. O., BSc MD, FRCSCan  
 (Urol.) †Clin. Prof.  
 Hardy, A. W., MD, FACS, FRCSCan  
 (Clin. S.) †Asst. Clin. Prof.  
 Johnston, R. J., BSc MD, FRCSCan  
 †Asst. Clin. Prof.  
 McCarten, A. B., MD *Manit.*, FRCS,  
 FRCSCan †Asst. Clin. Prof.  
 Mousseau, L. P., MD *Montr.*, FACS  
 †Asst. Clin. Prof.  
 Speakman, T. J., MD *Manit.*, MSc *McG.*,  
 FRCSCan †Asst. Clin. Prof.  
 Weinlos, M., BA MD, FRCSCan,  
 FRCSED †Asst. Clin. Prof.  
 Callaghan, J. C., MD MS BSc *Tor.*,  
 FRCSCan, FACS  
 (Clin. S.) †Asst. Clin. Prof.  
 Tucker, G. N., MD *Tor.* (Urol.) †Lectr.  
 Greene, E., MD CM *McG.*, FACS,  
 FRCSCan, FRCSED  
 (Surg. Anat.) Hon. Lectr.  
 Elliot, E. C., MD *Tor.*, BSc †Lectr.  
 Hitchin, E., MD †Lectr.  
 Kling, S., BA *Sask.*, MD *Tor.*, FRCSCan,  
 FACS †Lectr.  
 Francis, R. R., BA MD, FRCSCan,  
 FACS (Urol.) †Lectr.

Richard, H. L., MD, FRCSCan, FACS  
 (Clin. S. & Surg. Anat.) †Lectr.  
 Lees, J. M., MD, FRCSCan, FACS  
 (Clin. S.) †Lectr.  
 Shandro, W. A., MD CM *McG.*, FRCSCan,  
 (Clin. S.) †Lectr.  
 Allard, C. A., MD, FRCSCan, FACS †Lectr.  
 Hall, W. F. M., BSc MD, FRCSCan †Lectr.  
 Tucker, G. N., MD *Tor.* (Urol.) †Lectr.  
 Allin, E. S., MD *Tor.*, BSc, FRCS,  
 FRCSCan (Clin. S.) †Instr.  
 Besney, M., BSc MD Instr.  
 Boileau, G. R., BSc MD, FRCSCan †Instr.  
 Conroy, F. D., MD (Urol.) †Instr.  
 Dafoe, C. S., MD CM *Qu.*, FRCSED †Instr.  
 Davis, R. G., BSc MD Instr.  
 MacLean, W. A., MD *Manit.*, FRCSCan Instr.  
 Meltzer, H., MD *Manit.* (Clin. S.) †Instr.  
 Ross, C. A., MD, FRCSCan †Instr.  
 Strutz, W. A., BA *Sask.*, MD, FRCSCan Instr.  
 Weinlos, C. H. W., BA MD, FRCSCan  
 (Clin. S.) †Instr.  
 Williams, H. T. G., MB ChB *Liv.*, FRCS,  
 FRCSCan †Instr.  
 Archibald, W. S., MD CM *McG.*, BA  
 †Sessl. Instr.  
 Gulley, J. L., MD *Tor.* Sessl. Instr.  
 Hebb, H. D., BSc CM MD *Dal.* †Sessl. Instr.  
 Jespersen, R. E., BA MD †Sessl. Instr.  
 Laskin, M. M., BA *Sask.*, MD *Tor.*,  
 FRCSCan Sessl. Instr.  
 Theman, A. E., MD *Manit.*, FRCSCan  
 †Sessl. Instr.

**Therapeutics**

Rodman, F. S. B., MSc *Sask.*, PhD *Minn.*,  
 MD †Asst. Clin. Prof.

**INDUSTRIAL LABORATORIES**

Noble, C. E., BA BSc Provincial Analyst, Dir.

**PROVINCIAL LABORATORY OF  
PUBLIC HEALTH**

Stuart, R. D., ChB MD DSc DPH *Aberd.*,  
 FRFPGlas Prof., Provincial Bacteriologist  
 Shute, D., MD ChB *Manc.* \*Dir.  
 Crichton, Erika P., MB ChB *Glas.*  
 \*Chief Asst., Bacteriologist

**RESEARCH COUNCIL OF ALBERTA**

Grace, N. H., MBE, MA *Sask.*, PhD *McG.*,  
 FRCSCan, FCIC Dir. of Res.  
 Wark, Kathleen, BCom Accountant  
 Stover, Vera, MSc Librarian

**Coal Research**

Lang, W. A., MSc  
 Chemist-in-Charge, Sec. of Council  
 Berkowitz, N., PhD *Lond.* Chemist  
 Elofson, R. M., PhD *Wis.*, BSc Chemist  
 Moreland, C., BSc *Lond.*, PhD *Birm.* Engineer

Wood, J. C., PhD *McG.*, BSc Chemist  
 Campbell, J. D., BA *McM.*, MA *Br.Col.*,  
 PhD *McG.* Palaeobotanist  
 Fryer, J. F., BSc Chemist  
 McIntyk, N., BSc Engineer  
 Jensen, E. J., MSc *Copenhagen* Engineer  
 Davies, G., BSc *Lond.* Engineer  
 Dencer, R. B. J., BSc Chemist  
 Pearson, G. R., BSc *Nott.*, MSc *McM.*,  
 PhD *Qu.* Coal Geologist  
 Moschopedis, S., BSc *Athens* Chemist

### Gasoline and Oil Testing

Charlesworth, J. S., BSc Chemist-in-Charge  
 Stott, Gladys M., BSc Chemist  
 Rowbotham, M. E., BSc Chemist

### Geology

Gravenor, C. P., BA *Ti.* MS *Wash.*,  
 PhD *Indiana* Geologist-in-Charge  
 Kidd, D. J., PhD *Tor.* Geologist  
 Green, R., PhD *Durh.* Geologist  
 Godfrey, J. D., BSc *Nott.*, MS *Chic.* Geologist  
 Farvolden, R. N., BSc Geologist  
 Jones, J. F., BSc *W. Ont.* Geologist  
 Wall, J. H., MSc Geologist  
 Carrigy, M. A., MSc *W. Aust.* Geologist  
 Halferdahl, L. B., MSc *Qu.* Geologist  
 Lennox, D. H., BA *Tor.* Geologist  
 LeBreton, E. G., BSc *Wales* Geologist  
 Mendel, W. A., BSc *Sask.* Geologist  
 Govett, G. J., BSc *Wales*, PhD *Lond.* Geologist  
 Bayrock, L. A., MSc Geologist  
 Mellon, G. B., MSc Geologist  
 Moffatt, C. E., BSc Geologist  
 Meyboom, P., MSc *Utrecht* Geologist

### Highways

Rix, H. H., BSc Engineer

### Industrial Engineering Services

Gregory, J., MSc Engineer-in-Charge  
 Spencer, H. A., BSc *Sask.* Engineer  
 Anderson, A., BSc *Sask.* Engineer

Fitzpatrick, A. B., BSc MA Engineer  
 Lee, M., BSc Chemist

### Natural Gas Research

Habgood, H. W., MSc *Qu.*, PhD *Mich.* Chemist  
 Slaniceanu, R. D., DEcon *Florence* Engineer

### Petroleum Research

Hodgson, G. W., PhD *McG.*, MSc  
 Chemist-in-Charge  
 Clark, K. A., MA *McM.*, PhD *Ill.*  
 Engineer-Consultant  
 Pasternack, D. S., BSc *Qu.*, PhD *McG.* Chemist  
 Blades, A. T., BSc *W. Ont.*, PhD *Wis.* Chemist  
 Baker, B. L., BSc Chemist  
 Thyne, D. E., BSc Chemist  
 Charles, M. E., BSc *Lond.* Engineer  
 Jopling, Margaret D., BSc *McG.* Chemist  
 Round, G. F., PhD *Birm.* Engineer  
 Hitchon, B., PhD *Manit.* Geologist

### Soils

Odynsky, W., MSc Soil Surveyor-in-Charge  
 Wynnyk, A., MSc Soil Surveyor  
 Lindsay, J. D., MSA *Br.Col.* Soil Surveyor  
 Mathieu, A. L., MSc Soil Surveyor  
 Pawluk, S., PhD *Minn.*, MSc Soil Surveyor  
 Heringa, P. K., MSc *Wageningen* Soil Surveyor  
 Reeder, S. W., MSc *McG.* Soil Surveyor  
 Plaxton, G. W. A., BSA *Sask.* Soil Surveyor  
 Scheelar, M. D., BSc Soil Surveyor

### DEPARTMENT OF EXTENSION

Cameron, D., MSc Dir., Banff Sch. of Fine Arts  
 Shaw, N. G., BSc *New Br.*  
 Sec., Banff Sch. of Fine Arts  
 Campbell, D. D., BCom BA *Br.Col.*  
 Dir., Dept. of Extension  
 Cormack, E. W., OBE, BSc Asst. Prof.  
 Des Champs, A., BSA *Manit.* Agric. Sec.  
 Rossell, P. E., MA *Sheff.* Asst. Prof.  
 Potter, G. T., BA *Oxon.* Sr. Asst.  
 Dodds, Mary I., MS *Col.*, BCom Librarian  
 Fowlie, L., BA *Qu.*, BLS *Tor.* Asst. Librarian

## ADMINISTRATIVE AND OTHER STAFF

GENERAL. Dir. of Banff Sch. of Fine Arts : D. Cameron, MSc. Dir. of Extension : D. D. Campbell, BCom BA *Br.Col.* Principal, Calgary : M. G. Taylor, PhD *Calif.* Assoc. Dean of Educn., Calgary : A. L. Doucette, BSc in CE *Dal.*, EdD *Stan.*, MA. Dir. of Summer Session & Evening Credit Programme : J. W. Gilles, EdD *Stan.*, MA MEd. Provost, Calgary : A. A. Gibb, MA *Tor.*, EdD *Stan.*, BSc BEd. Dir. of Student Advisory Services : A. J. Cook, AM *Harv.*, PhD *Chic.*, BSc. Counsellor, Student Counselling Service : A. R. Vander Well, BA *Central Coll.*, MA *Iowa State*. Counsellor, Student Counselling Service, Lectr. : D. C. Fair,

BEd MA. Advisor to Women Students, Calgary : Ethel King, MA *Iowa*, BEd. Advisor to Men Students : R. C. W. Hooper. Personnel Officer : M. S. Cooke, BSA *Sask.* Dean of Women : Mrs. J. Grant Sparling, BA DipSW *Tor.* Supt. of Univ. Hospital : A. C. McGugan, MD DPH. Assoc. Registrar and Asst. to the Principal, Calgary : H. R. Hawes, BSc ; Asst. Registrar : L. P. Morgan, BA. Accountant : M. A. Roussell, BCom *McG.* Purchasing Agent : E. F. Hunter, BCom. Warden of Pembina Hall : Shirley M. Stinson, MNA *Minn.*, BSc ; Warden of Assiniboia Hall : . . . . . ; Warden of Athabasca Hall : D. J. Sherbaniuk, BA LLB. Alumni Sec. : A. G.

Markle, BJ *Car.*, BA. Manager, Univ. Press : Mrs. Bella Donnan. Officer-in-Charge, Univ. Office, Natnl. Employment Service : T. E. Walker. Radio Producer, CKUA : G. Vaughan. Supt. of Bldgs. : B. W. Brooker, BSc ; Supt. of Grounds : R. H. Knowles, BSA *Tor.*, MA MSc. Univ. Medical Officer : J. F. Elliott, BA MD, FRPCan, FACP.

**LIBRARY.** Reference Librarian : Dorothy I. Hamilton, BScinLS *Wash.*, BA ; Circulation Librarian : Norma E. Freifield, BLS *Tor.*, BA ; Order Librarian : Lilian E. M. Leversedge, BLS *Tor.*, BA ; Chief Cataloguer : D. A. Baird, BA *Br.Col.*, MS *Col.* ; Medical Librarian : Phyllis J. Russell, BLS *Tor.*, BA ; Educn. Librarian (Edmonton) : Moira L. English, BA *Br.Col.*, MLS *Wash.* ; Librarian (Calgary) : Dorothy E. Ryder, BA *Br.Col.*, BLS *McG.* ; Chief Processing Librarian (Calgary) : Mary E.

Speith, BA *Qu.*, BLS *McG.* ; Appl. Sci. Librarian : Emma MacDonald, BA *Br.Col.*, BLS *Tor.* ; Law Librarian : Denys Noden, MA *Camb.*, BLS *McG.* ; Library Asst. (Cataloguing) : Yvonne Fenton, BA *Durh.* ; Library Asst. (Cataloguing—Calgary) : Hazel E. Milne, BA *Sask.* ; Library Asst. (Reference) : Louise Range, BA *Sask.*, BLS *McG.* ; Library Asst. (Circulation) : . . . . . ; Librarian (Boreal Inst.) : Lois J. Carrier, BA *Sask.*, BLS *Tor.* ; Library Asst. (Cataloguing) : W. C. Rudy, BA *W.Ont.*, BLS *Tor.* ; Library Asst. (Reference) : Shirley E. Mooney, BA *Sask.* ; Library Asst. (Calgary) : D. Kehaya, BA *Col.Coll.* ; Library Asst. (Appl. Sci.) : Mrs. I. Raletich, Lic *Belgrade* ; Library Asst. (Medicine Reading Room) : Margaret I. Sutherland, BA ; Library Asst. (Cataloguing) : C. N. Suchowsky ; Library Asst. (Cataloguing) : Pauline Duby, BA ; Library Asst. (Order Dept.) : A. Kantautas, BCom *Copenhagen*.

## AFFILIATED INSTITUTIONS

**CAMROSE JUNIOR COLLEGE** (tel. : Camrose 2444). Dean—K. G. Morgenroth, BA *Qu.*, MA *Med Sask.*, PhD *Milton*. Affiliated to univ. in 1959. Provides courses in 1st yr. arts & sci. subjs.

**LETHBRIDGE JUNIOR COLLEGE**, a jr. college, is at Lethbridge, 5th Ave. and 18th St. South (tel. : FA7-4731). Dean—W. J. Cousins, MA. Affiliated in 1957. Provides courses in 1st yr. arts & sci. subjs.

**MOUNT ROYAL COLLEGE**, a jr. coll., is at Calgary (tel. : Calgary AM6-4611). Principal—Rev. J. H. Garden, BA DD. Affiliated in 1931. Provides courses in 1st yr. arts & sci. subjs.

**ST. STEPHEN'S COLLEGE**, a theological coll. of United Church of Canada, is situated on univ. campus. *Postal Address* : Univ. of Alberta,

Edmonton, Alberta, Canada (tel. : Edmonton GE3-1153). Principal—E. J. Thompson, MA BD PhD. Affiliated in 1910. Provides courses in Hebrew and bibl. lit.

**ST. JOSEPH'S CATHOLIC COLLEGE** (arts) is situated on the univ. campus. *Postal Address* : Univ. of Alberta, Edmonton, Alberta, Canada (tel. : Edmonton GE3-1569). Rector—Brother Prudent, BA B<sup>pad</sup> *Tor.*, MA. Affiliated in 1926 as an arts coll. working under authority of senate. Provides courses in hist. and philos.

**PROVINCIAL INSTITUTE OF TECHNOLOGY AND ART**, Calgary (tel. : Calgary AV9-7607), operates directly under the authority of the dept. of education. Principal—E. W. Wood. Affiliated 1926. No univ. courses are provided.

## GENERAL INFORMATION

The univ. was created in 1906 by an act of the first session of the first legislature of the province. The provincial legislature has establd. a close relationship between the univ. and the professions by giving the general fac. council jurisdiction over the educn. standards of agrologists, architects, chartered accountants, dentists, engineers, land surveyors, lawyers, pharmacists, physicians and surgeons, physiotherapists, registered nurses and veterinary surgeons.

In 1944 the univ. assumed responsibility for all teacher trg. in the province and in 1945 took over the provincial normal schs. and their staffs. The Calgary normal sch., which was housed in the bldg. of the provincial inst. of technol. and art, became the Calgary branch of the univ., now the 'Univ. of Alberta in Calgary'. It provides 1st yr. and some 2nd yr. courses in arts & sci.,

comm. and nursing, with 2-3 yrs. educn. and 1st yr. engin.

The senate supervised all phases of the instn.'s activities until 1910, when a bd. of governors was constituted and given charge of the univ.'s business affairs. This form of govt. remained substantially unaltered until 1942, when a new act reduced the size of senate and transferred most of its academic functions to the general fac. council. The univ. act is at present being revised.

**CONSTITUTION.** The chancellor is elected for 6 yrs. by convocation, which consists of survivors of original groups of grads. of other univs. who registered as members of convocation under the univ. act of 1906, and all subsequent grads. of the univ. : he is a member of the bd. of governors and of senate, as is the pres. The bd. of governors



consists of 6 *ex-officio* members and 7 apptd. by the lt.-governor in council. The senate consists of 25 members: there is considerable emphasis on its function as a bridge between the univ. and the life and activities of the province, and 9 of its members represent agric., business, labour, industry, public educn. and organizations devoted to social and cultural welfare.

**INCOME (1959-60).** On current account, about \$10,100,000 (major sources of revenue: prov. of Alberta, 53 per cent.; govt. of Canada, 24 per cent.; tuition fees, 23 per cent.). Income on capital account (prov. of Alberta, 100 per cent.), \$10,850,000.

**FACULTIES AND DEANS.** See p. 120.

**SCHOOLS AND DIRECTORS.** See p. 120.

**LOCATION.** In Edmonton, the univ. possesses 857 acres (campus, 133 acres; farm, 724 acres). The campus, located about 2 miles from the business centre, borders the wooded southern bank of the N. Saskatchewan river. It contains some 12 major teaching and res. bldgs., in addition to student residences, service bldgs. and 2 affiliated colls. Adjoining are the Alberta Res. Council, the prov. lab. of pub. health, 2 teaching hosps. and the Northern Alberta Jubilee Auditorium. At Calgary, the new campus extends to about 230 acres, and is situated on the Banff highway, at the western limits of the city. The 2 bldgs. in Calgary are designed to house arts, educn., engin. and sci. The Banff Sch. of Fine Arts, which is administered by the univ., is located in the mountains.

**LIBRARY.** 236,000 vols., incl. 192,000 in Rutherford libr., 20,000 in educn. libr. and 24,000 in libr. of the univ. at Calgary. 2000 periodicals taken regularly at Edmonton and 250 at Calgary.

**LABORATORIES** for all scientific courses; museum; herbarium; farm; agric. experimental plots; extensive greenhouses and growth chambers.

**RESEARCH LABORATORIES** for the study of animal nutrition; cancer; coal; field crops; hydraulics; petroleum products; pharmacy; soils; soil mechanics; strength of materials; structural engin. The provincial lab. of pub. health and the indust. labs. are situated on the campus.

**INSTITUTES.** Boreal inst. in arctic res., inst. of theore. phys., summer inst. of linguistics.

**TEACHING HOSPITALS.** University (1138 beds), General (402 beds), Misericordia (443 beds), Royal Alexandra (729 beds), Charles Cammell H., Oliver Mental H., Aberhart Memorial TB. Sanatorium, Workmen's Compensation Bd. Rehabilitation Clinic, Cerebral Palsy Centre, Prov. Mental H. at Ponoka, Prov. Sch. for Retarded at Red Deer.

**ADMISSIONS** See Appendix II.

**NON-MEMBERS OF THE UNIV.** may be admitted to classes on payment of the class fee (\$55) and

reduced general fees. No univ. degree credit is gained by such attendance.

**FIRST DEGREES.** 3 yrs. (hons. 4 yrs.)—BA, BSc (arts); 3 yrs.—BSc (household econ.), BSc (pharmacy), BPE, BMus, BSc in med. lab. sci.; 4 yrs.—BSc (agric.), BSc (civil, chem., electr., mech., metallurgical, mining and petroleum engin., and engin. phys.; variety of pattern in civil, electr., metallurgical engin.), BCom, BEd; 5 yrs.—DDS (incl. 1 yr. pre-dental), BSc (nursing) (incl. 3 yrs. hosp. trg.). 'Combined' courses: 5 yrs.—BA & BCom, BA & LLB; 6 yrs.—BA & BSc (engin.); 6 yrs.—MD (4 yrs. after 2 yrs. arts and sci.).

Hons. degrees are awarded only in arts, sci. and comin.: subjs. are biochem., bot., chem., classics, Latin-French, Latin-Engl., Engl., entomol., geog., geol., hist., maths., appl. maths., mod. langs., philos., philos.-Gk., psychol., phys., phys.-geol., physiol., pol. econ., pol. sci., sociol., sociol.-psychol., slavonic & soviet studies, zool. About four-fifths of the individual courses in an hons. curriculum are in the subj. of specialization or related fields; with certain limitations, the remainder may be selected by the student.

**Erg. Credit Programme.** Some 24 arts and 5 educn. courses are offered in Edmonton and a few in Calgary and other centres. No degree can be completed in this way.

**HIGHER DEGREES.** 3 yrs. after BA—LLB. A bachelor with hons. standing may obtain MA or MSc in 1 yr. of advanced study (2 yrs. for bachelors with general degree). MEd requires equivalent of 2 yrs. of advanced study. Period of study for BD varies according to programme selected but is in no case less than a combined total of 4 yrs. in arts and theol. For PhD and EdD bachelors normally must have 3 yrs. of study and res., and masters 2. Two yrs. of residence required in either case. Grad. courses are offered in animal sci., bacteriol., biochem., bot., chem. & engin., chem., civ. engin., classics, dairy sci., educnl. admin., educnl. psychol., electr. engin., elem. educn., Engl., entomol., geol., hist., maths., mod. lang., petrol. engin., pharm., philos., psychol., phys., phys. educn., physiol., plant sci., econ., pol. sci., second. educn., soil sci., zool. The PhD may be given in animal sci., biochem., chem., educnl. admin., educnl. psychol., entomol., geol., hist., metall., pharm., phys., physiol., pharmacol., plant sci., second. educn., soil sci.

Higher degrees are open to grads. of other univs. on the same terms as to grads. of this univ.; courses of instructn. (as distinct from facilities for supervised res.) are provided.

DSc and DLitt have been conferred for high distinction in original res.

**HONORARY DEGREE.** LL.D.

The univ. does not award **EXTERNAL DEGREES**, though credit may in certain circumstances be given for exams. passed through extra-mural study.

**DIPLOMAS, CERTIFICATES, ETC.** *Educn.*: 1-yr. 'normal' course for jr. elem. cert. *Nursing*: 3-yr. general dipl. course; 1-yr. dipl. courses for

grad. nurses in pub. health nursing and teaching & supervision. *Physiotherapy*: dipl. (2 yrs.). *Art*: dipl. (4 yrs.); inter. dipl. (2 yrs.). Short courses in dairying and obstet.

**RESEARCH.** Well-equipped labs. in agric., biochem., bot., chem., engin., med., pharmacy and zool. Computing centre: Van de Graaff accelerator. Cosmic ray lab. at Sulphur Mountain, Banff. The teaching hosps. provide many res. problems. Res. in educn. is facilitated since all teacher trg. in the province is conducted in that fac. There is an inst. of highway engin. The cancer lab. provides for surgical res. There is close collaboration with the Res. Council of Alberta (*see below*). Depts. of the provincial govt. assist in res. *See also* 'Research Laboratories' *above*. Published res. papers are listed in annual *Report of Bd. of Governors*.

**RESEARCH COUNCIL OF ALBERTA.** Adjoining campus. Its essential function is to conduct res. directed to the utilization of the resources of the prov. of Alberta. Its staff members collaborate with members of related depts. of the univ. *See also* p. 129.

**STUDY LEAVE.** One yr. is granted, subject to conditions regarding nature of studies and financial consequences to the univ., on half to four-fifths salary.

**FEES.** Annual tuition fees: BA, \$215; BSc, \$245; BCom, \$245; BSc(HEc), \$245; BSc (agric.), \$235-\$245; BSc (engin.), \$285-\$315; DDS, pre-dental, \$245, other yrs., \$265-\$415; BEd, \$205-\$225; L.L.B., \$265; MD, \$365-\$525; BSc (nursing), 1st yr.—\$245, 5th yr.—\$245, 2nd, 3rd & 4th yrs.—gratis; BSc (pharmacy), \$255. Inclusive fee for master's degree, \$200-\$300. General fees: students' union: \$21-25.

**ACADEMIC YEAR.** Sept. to April (2 terms, of about 12 & 14 wks., separated by Christmas vacation). In med. and in dent., terms are about 15 & 17 wks. Summer session, 6 wks. in July and Aug. (mainly for students in arts and sci. and in educn.). All courses may be credited towards degrees.

**ADULT EDUCATION** work includes lectures, radio discussion group material, debating material, general information service, agric. bulletins, short courses in art and dramatics, film and lantern slide service, open-shelf and travelling libraries and community life conferences.

The **BANFF SCHOOL OF FINE ARTS** held during July and Aug. offers non-credit courses in theatre, art, music, ballet, opera, appl. art, oral French, photography, play-writing and radio-writing, and certain credit courses in fine arts and French which are of particular interest to teachers.

The **BANFF SCHOOL OF BUSINESS ADMINISTRATION**, under the joint sponsorship of Alta., Br. Col., Manit. and Sask., is meeting industry's demand for exec. trg. through its advanced management courses.

'**OPEN**' AWARDS. No undergrad. 'open' awards. Postgrad. awards: Univ. of Alberta

grad. fellowship, \$3600 over 12 mos. for PhD or EdD programme. Prov. of Alberta grad. fellowships, 3 of \$3600 each over 12 mos. for PhD or EdD programmes. Prov. of Alberta grad. scholps., 10 of \$2200-\$2600 each over 12 mos. Francis F. Reeve Foundation grad. bursaries, 3 of \$2400 each over 12 mos., financial need, preference to Canadian grads. Shell Oil fellowship, \$1800 p.a., open to sci. or engin. grads. of Canadian univs. (or of recognized univs., if they have had 1 postgrad. yr. in Canada) who intend to follow a career in Canada; fields: chem. engin., chem., geol., geophys., mech. engin., petroleum engin., phys. CIL fellowship, \$2000 p.a., open to Canadian citizens (or univ. grads. who intend to follow a career in Canada) for doctoral work in chem. engin. or chem. Cominco fellowship, \$1000 p.a. for grads. in agric., engin. or sci. of a recognized univ., preferably Canadian citizen or British subject resident in Canada; field: preferably related to chem. industry, metall. or mining. Pan American Petroleum Corp. fellowship, \$1200 plus fees p.a. for grads. with BSc from any recognized univ. for grad. study in petroleum engin. Pan American Petroleum Corp. fellowship, \$1200 plus fees p.a. for Canadian grads. for grad. study in geol. For all above, apply by March 1 on form which may be obtained from administrator of student awards. The fac. of educn. has certain fellowships available. Apply direct to fac. Teaching assistantships and fellowships are available in certain depts.; value up to \$3600. Apply direct to dept. concerned.

**APPOINTMENTS.** A sub-office of the Edmonton branch of the Natl. Employment Service is located on the campus. This serves both grads. and undergrads., and collaborates with cttee. on student employment.

**ALUMNI ASSOCIATION.** All grads. are members of the alumni assocn., whose operations are controlled by a council of 20 members. The alumni sec.-treasurer, employed by the univ., has his office in the students' union bldg.; he is also editor of *The New Trail* (*see below*).

**STUDENT RESIDENCES.** Pembina Hall (tel. GE3-0331), 152 women; Pembina House (tel. GE9-2191), 18 women; Athabasca Hall (tel. GE3-1472), 138 men; Assiniboia Hall (tel. GE3-1571), 186 men; St. Joseph's College (tel. GE3-1569), 100 men; St. Stephen's College (tel.: GE3-1153), 153 men; and St. Aidan's House (tel.: GE3-8756), 11 men. All except St. Aidan's (11,009 89th Avenue) are on the campus. Cost of room and bd., \$70 to \$75 per month. Full meal and restaurant service provided by cafeteria. Student life is under the supervision of the provost.

**STAFF RESIDENCES.** Ten houses for sr. staff members occupying admin. positions; 12 suites or apartments available for limited period to new staff members with families.

**NAVAL, MILITARY AND AIR UNITS.** Officers' trg. is provided for undergrads. by the univ.

naval trg. div. of the Royal Canadian Navy, the Alberta contingent of the Canadian officers' trg. corps of the Canadian Army and the reserve univ. squadron of the Royal Canadian Air Force.

**MEDICAL SERVICES.** Students are entitled to med. treatment, under certain conditions and provisions.

**STUDENTS' UNION.** Student affairs in Edmonton and Calgary are handled by a students' union at each place. In Edmonton the union has its own bldg. and employs a permanent sec. Union fee collected by the univ. at time of registration includes substantial contributions to the bldg. fund and to the univ. athletic bd., and a sub. to the *Gateway* student newspaper.

**PUBLICATIONS.** *Calendar* (spring); *summer session Announcement*; *Information for Prospective Univ. Students* (for matriculants); *Report of Bd. of Governors* (Nov.); *The New Trail* (quarterly), jtl. by univ. and alumni assocn.; *Gateway* (student newspaper, twice weekly); *Evergreen and Gold* (annually by students); *Stet* (students' magazine—irregularly); *The History of the Univ. of Alberta, 1908-1958*. J. MacDonald. (Univ. of Alberta Printing Dept., 1959).

**UNIVERSITY BOOKSTORE** stocks text-books, stationery and other accessories.

**UNIVERSITY PRINTING DEPT.** The univ. maintains its own printing and bookbinding establishment on the campus.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* to house Van de Graaff accelerator and labs., \$50,000; admin. bldg. Banff Sch. of Fine Arts, \$520,000. *Approaching completion:* phys. educn. & recreation bldg. (offices, classrooms, gymnasiums, swimming pool, artificial ice arena, etc.), \$3,000,000.

**NEW DEPARTMENT.** Mech. engin.

**RETIREMENTS.** Prof. J. W. Scott (med.); Prof. J. E. Bowstead (animal husbandry); Prof. H. A. MacGregor (educn.); Prof. R. F. Shaner (anat.); G. B. Taylor (admissions registrar).

**RESIGNATIONS.** S. C. T. Clarke (educn.), apptd. sec., Alberta Teachers' Assocn.; J. Guttman (maths.), to McG.; J. D. Newton (soil sci.), to F.A.O.; J. R. Murray (pharm.), apptd. dean of pharm., Manit.; Dean R. M. Hardy (engin.), to business; H. B. Barnett (educn.), to Victoria Coll.; A. O. Saffel (acctg.), to business; Blanche Giffen (library), on marriage; H. M. Axford (comm.), apptd. pres., Waterloo Univ. Coll.

**DEATHS.** R. B. Miller (hd. of zool.); S. M. Strong (sociol.).

**HONORARY DEGREES.** *LLD*—C. M. MacInnes, former prof. of hist., Brist.; (the late) S. E. Smith, Canadian minister of external affairs; F. P. Galbraith, pioneer newspaper editor; E. E. Roper, civic leader; A. Stewart, former pres., Alta., chairman of Canadian Bd. of Broadcast Governors; C. M. Macleod, chairman, bd. of governors, Alta.; R. J. Dinning, company executive; D. N. MacCharles, pioneer physician & surgeon; H. H. Saunderson, pres., Manit.; W. T. R. Flemington, pres., Mt. All.

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	4182	300
Women . . .	2205	126
Total . . .	6387	426

These figures include special students, enrolled and receiving instructn., but not seeking credit towards degree or dipl.; they do not include 925 persons of both sexes enrolled in regular univ. courses held in evgs. in various towns to provide credits towards a degree.

**Distribution by Faculties.** *Agric.*, 111; *arts & sci.*, 1495; *comm.*, 203; *dent.*, 121; *educn.*, 1632; *engin.*, 1143; *grad. studies*, 437; *household econ.*, 60; *law*, 107; *med.*, 249; *nursing*, 488; *pharm.*, 182; *phys. educn.*, 81; *physiotherapy*, 51; *theol.*, 18. Total: 6387.

*Included in the figures above are:—*

Postgraduate students, 437.

New admissions, 2188.

Students from other countries, 118. (Countries from which largest numbers came: U.K., 21; India, 21; Hong Kong, 16; Pakistan, 10).

**DEGREES AWARDED (1958-59).** *Agric.*: BSc, 35. *Arts & sci.*: BA, 164; BSc, 144. *Comm.*: BCom, 37. *Dent.*: DDS, 26. *Div.*: BD, 5. *Educn.*: BEd, 225. *Engin.*: BSc, 159. *Grad. studies*: MA, 15; MEd, 17; MSc, 40; PhD, 10. *Household econ.*: BSc, 21. *Law*: LLB, 27. *Med.*: MD, 50. *Nursing*: BSc, 24. *Pharm.*: BSc, 36. *Phys. educn.*: BPE, 12.

**DIPLOMAS AWARDED (1958-59).** *Educn.*: sr., 217; jr. elem., 59; jr. secondary, 122. *Nursing*: nursing, 99; teaching & supervision, 12; pub. health, 20. *Physiotherapy*: 14.

# ASSUMPTION UNIVERSITY OF WINDSOR\*

Founded as Assumption College in 1857

*Postal Address* : 400 Huron Line, Windsor, Ontario, Canada

*Cables and Telegrams* : Assumption University, Windsor, Ontario

*Telephones* : Windsor—CLearwater 4-9246; Detroit—WOODward 3-6113

CHANCELLOR—Most Rev. J. C. CODY, DD LL.D *W.Ont.*, Bishop of London

VICE-CHANCELLOR AND PRESIDENT—Very Rev. E. C. LEBEL, CD, BA *Tor.*, MA *Chic.*

EXECUTIVE VICE-PRESIDENT AND REGISTRAR—Rev. P. J. M. SWAN, MA PhD *Tor.*

VICE-PRESIDENT, DEVELOPMENT—Rev. D. J. MULVIHILL, BA *W.Ont.*, MA PhD *Mich.*

CHAIRMAN, BOARD OF REGENTS—A. F. FUERTH

CHAIRMAN, ESSEX COLLEGE BOARD OF DIRECTORS—J. W. WHITESIDE, BA *W.Ont.*

TREASURER—Rev. E. A. ROBERTS, BA *W.Ont.*, STB *St.Michael's(Tor.)*

LIBRARIAN—W. F. DOLLAR, MA *W.Ont.*, AMLS *Mich.*

DEANS—APPLIED SCIENCE—F. A. DEMARCO, MASc PhD *Tor.*, FCIC, Principal, Essex College; ARTS  
AND SCIENCE—Rev. N. J. RUTH, MA *Tor.*; Rev. E. C. GARVEY, MA PhD *Tor.*, Principal, University College; GRADUATE STUDIES—Rev. C. P. J. CROWLEY, BA *Tor.*, MA PhD *Mich.*; THEOLOGY—  
Rev. D. L. EGAN, STL *C.U.A.*

## TEACHING STAFF

[(C)= staff of Canterbury Coll., (E)= Essex Coll., (R)= Holy Redeemer Coll.,  
(U)= Univ. Coll.; †= Part-Time]

### Anthropology (U)

Fay, C., BS MA PhD *St.Louis* Asst. Prof.

### Biology (E)

Grant, Rev. A. J., BA *Tor.*,  
MA *St.Bonaventure* Prof.

Benedict, W. G., BSA PhD *Tor.* Assoc. Prof.

Doyle, R. J., MA *W.Ont.*, MS *Mich.State*  
Asst. Prof.

Kuchner, C. C., MSc PhD *Ohio State*  
Asst. Prof.

Moss, Marie L., BS *Nebraska*, MS *Minn.*  
(on leave) Asst. Prof.

Dougherty, Rev. J. R., BA *W.Ont.*,  
STB *St.Michael's(Tor.)*, MS *Corn.* Lectr.

Sister Michael Mary, BA *W.Ont.* Lectr.

Petras, M. L., MSc *Notre Dame* Lectr.

McCurdy, H. D., BA *W.Ont.*, MSc  
PhD *Mich.State* Lectr.

2 Jr. Demrs.

### Business Administration (E)

Horne, G. R., BA *W.Ont.*, MA PhD *Mich.* Prof.

Brownlie, M., BA *W.Ont.*, MBA *Mich.*  
Asst. Prof.

Gertz, J. R., BS *Detroit*, MBA *Ohio State*  
Asst. Prof.

Zin, M., MBA *Mich.*, BComm Asst. Prof.  
Hanson, W., BComm *Sask.*, MBA *W.Ont.*

Birch, C. M., BA *W.Ont.*, MA PhD *Tor.* †Instr.  
Flock, D. A., BA *W.Ont.*, LLB *Osgoode* †Instr.  
Meanwell, R. W., BA *W.Ont.* †Instr.

### Chemistry (E)

Jellinek, H. H. G., PhD *Lond. & Camb.* Prof.

DeMarco, F. A., MASc PhD *Tor.*, FCIC Prof.

Billinghurst, R. G., MASc *Tor.* Assoc. Prof.

Rutherford, K. G., BA *W.Ont.*,  
PhD *Wayne State* Assoc. Prof.

Holland, W. J., BSc *Qu.*, MSc PhD *Wayne State* Asst. Prof.

Price, S. J. W., BA MSc *Br.Col.*,  
PhD *Edin.* Asst. Prof.

Thibert, R. J., BA *W.Ont.*, MS *Detroit*,  
PhD *Wayne State* Asst. Prof.

Kosicki, Rev. G. W., BA *W.Ont.*,  
MS *Mich.* (on leave) Lectr.

..... Instr.  
2 Jr. Demrs.

### Classics (U)

Hussey, Rev. J. M., BA *Tor.*, MA *C.U.A.* Prof.

Macdonald, Rev. D. G., MA *Tor.* Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Economics (U)**

- Phillips, W. G., MA PhD *Tor.* Prof.  
 Burns, Rev. F. L., MA PhD *Mich.* Assoc. Prof.  
 Chrypinski, V. C., ML *Lublin Catholic U.*,  
 MA *Wayne State*, PhD *Mich.* Assoc. Prof.  
 White, W. L., DFC, BA *W.Ont.*, MA *Tor.*  
 Asst. Prof.  
 Fallenbuchl, Z. M., BSc(Econ) *Lond.*,  
 MA *Montr.* Asst. Prof.  
 Gillen, W. J., MA *Tor.*, BA Lectr.

**Engineering (E)**, see Applied Science, below

**English (U, R)**

- Crowley, Rev. C. P. J., BA *Tor.*, MA  
 PhD *Mich.* Prof.  
 Manley, Mary J., BA *W.Ont.*, MA  
 PhD *Yale* Assoc. Prof.  
 Johnson, Rev. K. J., BA *W.Ont.*, MA *C.U.A.*  
 Asst. Prof.  
 McNamara, E. J., MA *De Paul* Asst. Prof.  
 Pappert, Rev. E. C., BA *Tor.*, MA *Detroit*,  
 PhD *Ott.* Asst. Prof.  
 Sullivan, J. F., MA *Detroit*, PhD *Mich.*  
 Asst. Prof.  
 Padley, G. A., BA *Leeds* Asst. Prof.  
 Madden, Rev. R. J., MA *Tor.*,  
 STB *St. Michael's (Tor.)* (on leave) Lectr.  
 Kelly, D. P., MA *Tor.* Lectr.  
 Plante, H. F., BA *H.Ont.*, MA *Tor.* Lectr.  
 2 Readers, 3 Instrs.

**Fine Art (U)**

- Galantic, I. †Instr.

**French**, see Mod. Langs.

**Geography (E)**

- Vandall, P. E., BA *W.Ont.* Lectr.

**Geology (E)**

- Weiler, Rev. A. J., BA *Tor.* Lectr.

**German**, see Mod. Langs.

**History (U, R)**

- Mulvihill, Rev. D. J., BA *W.Ont.*, MA  
 PhD *Mich.* Prof.  
 Nelligan, Most Rev. C. L., DD BA *Laval*  
 Assoc. Prof.  
 O'Meara, Rev. J. P., BA *Tor.*,  
 MA *Wayne State*, PhD *Ott.* Assoc. Prof.  
 Boland, Rev. F. J., BA *Tor.*, MA *Detroit*,  
 PhD *Ott.* Assoc. Prof.  
 McCormick, Rev. J. J., MA *W.Ont.* Asst. Prof.  
 Swan, C. M. J. F., MA *W.Ont.*, PhD *Camb.*  
 (on leave) Asst. Prof.  
 Vukovic, M., MA Lectr.  
 Rayson, Rev. R. S., MA *Qu.*, STB *General*  
*Theol. Sem.*, DD *Anglican Theol. Coll.*  
*(R.C.)* Instr.

**Household Science (U)**

- Sister Mary Romana, BSc *Nazareth (Mich.)*,  
 MS *Mich. State* Lectr.  
 Sister Michael Mary, BA *W.Ont.* Lectr.

**Mathematics (E)**

- Faught, Rev. D. T., BA *Tor.*, MA *Mich.*  
 Assoc. Prof.  
 Eliopoulos, H. A., BSc *Salonika*,  
 MSc *McG.*, PhD *Tor.* Assoc. Prof.  
 Abramowich, J., BSc *Alta.*, MA *Tor.*,  
 PhD *Calif.* Asst. Prof.  
 Campbell, L. I., BSc *Manit.*, MS *Iowa*,  
 PhD *Tor.* Asst. Prof.  
 Nigh, Rev. W. F., BA *W.Ont.*, MA *Houston*  
 Asst. Prof.  
 Zakon, E. R., MgrPhil DrJur *Vilna* Asst. Prof.  
 Klambauer, G., MA *Wayne State*, BSc Lectr.  
 Zayachkowski, W., BA *Sask.*, MA  
 PhD *Alta.* Lectr.  
 Gee, W. R., BSc *Qu.* †Instr.

**Modern Languages (U)**

- Drouillard, Rev. C. J., MA *Tor.*, PhD *Laval*  
 Assoc. Prof.  
 Sabatino, M. A., AM *Miami (Fla.)*,  
 DML *Middlebury* Assoc. Prof.  
 Thibault, A. A., AB *Boston Coll.*, AM *Harv.*,  
 LèsL *Paris*, DèS *Laval* Assoc. Prof.  
 Sister Pauline of Mary, BA *W.Ont.*,  
 MA *Laval* Asst. Prof.  
 McCarthy, Lillian M., MA PhD *Tor.*  
 Asst. Prof.  
 Pazik, Rev. R. S., BA *W.Ont.*, MA *Tor.*  
 Asst. Prof.  
 Weiler, Rev. A. J., BA *Tor.* †Lectr.  
 Zakon, Mrs. Batia, MA *Vilna* Lectr.  
 Thibault, Mrs. Mary M., BA *St. Jos.*,  
 MA *C.U.A.*, Dipl de prof de français  
 à l'étranger *Paris*, Dipl. *Inst. de Phon.*,  
*Paris* †Instr.

**Music (U)**

- Gilinski, M. Sp. Prof.  
 Leach, Mrs. Violet W., AM *Wayne* †Instr.

**Nursing (E)**

- Roach, Florence M., BS *Seton Hall* Prof.  
 Sanders, Leta G., BS MA *Col.* Lectr.  
 Gray, Mrs. Elizabeth, DNE Instr.

**Philosophy (U, R)**

- Garvey, Rev. E. C., MA PhD *Tor.* Prof. (U)  
 Kingston, Rev. F. T., MA LTh BD *Tor.*,  
 DPhil *Oxon.* Prof. (C)  
 Flood, P. F., MA *W.Ont.* Assoc. Prof. (U)  
 Alexander, Rev. A. E., PhL *Frib.* Asst. Prof. (U)  
 Fay, C., BS PhD *St. Louis* Asst. Prof. (U)  
 Powers, Rev. R. D., MA *C.U.A.* Asst. Prof. (R)  
 Swan, Rev. P. J. M., MA PhD *Tor.*  
 Asst. Prof. (U)

Deck, J. N., MA *W.Ont.*, PhD *Tor.*

	Asst. Prof. (U)
Macdonald, Rev. D. G., MA <i>Tor.</i>	Lectr. (U)
Daley, Rev. J., BA <i>W.Ont.</i> , MA <i>Tor.</i> ,	
STB <i>St.Michael's(Tor.)</i>	Lectr. (U)
Graham, J. M., MA <i>W.Ont.</i>	Lectr. (U)

**Physics (E)**

Krause, L., BSc <i>Lond.</i> , MA PhD <i>Tor.</i>	Assoc. Prof.
Huschilt, J., MA <i>Tor.</i>	(on leave) Asst. Prof.
MacDonald, R. E., MA PhD <i>Tor.</i>	Asst. Prof.
Rankin, D., MA <i>Br.Col.</i>	Asst. Prof.
Habib, E. E., BSc <i>Birm.</i>	Lectr.
Koenig, R. H., MSc <i>McM.</i>	Lectr.
Ruci, K. H., ME <i>OrdinanceEngin.Coll.</i>	
( <i>Taiwan</i> ), MME PhD <i>Syr.</i>	Lectr.
Brockman, I. H., BE <i>Sask.</i>	Instr.
† Technician	

**Political Science (U)**

Chrypinski, V. C., MA <i>Wayne</i> , PhD <i>Mich.</i>	Asst. Prof.
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**Psychology (U)**

Philip, Brother R., MA <i>Tor.</i> , PhD <i>C.U.A.</i>	Prof.
Sister Marion Dolores, BA <i>Marylhurst</i> ,	
MA PhD <i>Loyola(III.)</i>	Prof.
Malone, Rev. J. A., BA <i>W.Ont.</i> , MA <i>Tor.</i> ,	
PhD <i>Fordham</i>	Assoc. Prof.
Record, Rev. M. A., BA <i>W.Ont.</i> , MA <i>Tor.</i>	
	Assoc. Prof.
Smith, A. A., MA <i>Qu.</i> , PhD <i>McG.</i>	Assoc. Prof.
Behr, Rev. R. C., BA <i>Tor.</i> , MA <i>Detroit</i> ,	
PhD <i>Fordham</i>	Asst. Prof.
Mann, W. R., BA <i>Texas</i> , MA <i>C.U.A.</i>	Asst. Prof.
McGouey, Rev. T. J., BA <i>W.Ont.</i>	Lectr.
Mann, Mrs. Anne M., BA <i>Bryn Mawr</i> ,	
MA <i>C.U.A.</i>	† Instr.

**Religious Knowledge**

McCann, Rev. L. A., BA <i>W.Ont.</i> , STB	
<i>Pontif.Athen.Angelicum</i> , STD <i>Laval</i>	
	Prof. (U)
Ravson, Rev. R. S., MA <i>Qu.</i> , STB <i>General</i>	
<i>Theol.Sem.</i> , DD <i>AnglicanTheol.Coll.</i>	
( <i>B.C.</i> )	Prof. (C)
Neligan, Most Rev. C. L., DD BA <i>Laval</i>	
	Assoc. Prof. (U)
Egan, Rev. D. L., STL <i>C.U.A.</i>	Assoc. Prof. (U)
Crowley, Rev. E. J., BA <i>St.Jos.</i> , STL <i>C.U.A.</i> ,	
SSL <i>Pontif.Bibl.Inst.</i>	Asst. Prof. (U)
Kingston, Rev. F. T., MA LTh BD <i>Tor.</i> ,	
DPhil <i>Oxon.</i>	Lectr. (C)

**Russian**, see Mod. Langs.

**Sociology (U)**

Helling, R. A., BA <i>Wayne</i> , Dipl Socialwirt	
<i>Wilhelmshavn</i>	Lectr.

**Spanish**, see Mod. Langs.

**Speech**, see English

**APPLIED SCIENCE (E)**

**Chemical Engineering**

Adelman, M., MASC PhD <i>Tor.</i>	Prof.
Billingham, R. G., MASC <i>Tor.</i>	Assoc. Prof.
Gnypp, A. W., MASC PhD <i>Tor.</i>	Asst. Prof.
Tien, C., BS <i>Natnl.Taiwan</i> , MS <i>Kansas</i>	
<i>State</i> , PhD <i>Northwestern</i>	Asst. Prof.

**Civil Engineering**

Herbich, H. P., DiplIng <i>Warsaw</i> ,	
DSc <i>Edm.</i>	Prof.
Wu, T. S., BS <i>Natnl.Chiao-Tung</i> , MS <i>Wash.</i> ,	
PhD <i>Ill.</i>	Assoc. Prof.
Duquette, D. D., BA <i>W.Ont.</i> ,	
MS <i>Mich.State</i>	Asst. Prof.
Apostolopoulos, H. A., BCivilEng <i>Minn.</i>	Lectr.
Hartt, J. P., BASc <i>Tor.</i>	Lectr.
Montrose, C. H., BSc <i>Qu.</i>	† Instr.

**Electrical Engineering**

Fletcher, H. R., MASC <i>Tor.</i>	Asst. Prof.
Hwang, H. H., BS <i>Natnl.Chiao-Tung</i> , MS	
PhD <i>Lehigh</i>	
Detthow, P. A., CivEng <i>Chalmers Tech.</i>	Lectr.
Joyce, J. D., BSc <i>Qu.</i> , MSE <i>Mich.</i>	Lectr.
Huschilt, J. J. M., BASc <i>Tor.</i>	Instr.

**Engineering Physics**

...	Assoc. Prof.
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**Mechanical Engineering**

Colborne, W. G., MSc <i>Qu.</i>	Assoc. Prof.
Tucker, H. J., MEng <i>McG.</i>	Asst. Prof.
Babiy, G. B., MSc <i>Manit.</i>	Lectr.
Howell, Rev. A. R., BSc <i>Sask.</i> , STB <i>St.</i>	
<i>Michael's(Tor.)</i> , MASC <i>Tor.</i>	Lectr.

**THEOLOGY (R)**

**Canon Law**

McAulay, Rev. L. C., BA <i>St.Dun.</i> ,	
JCL <i>Pontif.Athen.Lateran</i>	Lectr.

**Church History**

Egan, Rev. D. L., STL <i>C.U.A.</i>	Assoc. Prof.
McCormick, Rev. J., MA <i>W.Ont.</i>	Asst. Prof.

**Dogmatic Theology**

Owens, Very Rev. L. G., STL <i>Pontif.</i>	
<i>Athen.Angelicum</i>	Prof.

**Moral Theology**

Thomas, Rev. A. J., JCD <i>Laval</i>	Asst. Prof.
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**Pastoral Theology**

Kelly, Rev. T. I., STL <i>C.U.A.</i>	Lectr.
Powers, Rev. R. D., MA <i>C.U.A.</i>	Asst. Prof.

**Sacred Scripture**

Crowley, Rev. E. J., BA <i>St.Jos.</i> , STL <i>C.U.A.</i> ,	
SSL <i>Pontif.Bibl.Inst.</i>	Asst. Prof.

## UNIVERSITY EXTENSION

## Special Lecturers

Jackson, R. D.

(Acctg.)

Kirk, J., BComm

(Acctg.)

Masterson, J. P.

(Acctg.)

Mongenais, J. C., BSc

(Bus. Maths.)

Taylor, R. W., BComm

(Acctg.)

Zuber, T. G., BA *W.Ont.*

(Law)

## ADMINISTRATIVE AND OTHER STAFF

Dir. of Extension: Rev. E. C. Pappert, BA *Tor.*, MA *Detroit*, PhD *Ott.* Asst. Registrar: Barbara H. Birch, MA *W.Ont.* Dir., Christian Culture Series: Rev. J. S. Murphy, BA *W.Ont.*, MA *Tor.* Dir. of Athletics: R. J. Moriarty, BA. Dean of Men: Rev. D. T. Faught, BA *Tor.*, MA *Mich.* Dean of Women: Sister Marian Dolores, BA *Marylhurst*, MA PhD *Loyola(Ill.)*.

Chaplain: Very Rev. F. L. Burns, BA *W.Ont.*, MA PhD *Mich.* Dir. of Devel. & Public Relns.: J. E. Thompson, MC, BA *Manit.* Med. Adviser: F. G. De Marco, MD *W.Ont.* Alumni Sec., Manager, Placement Bureau: R. J. Schifferli, BA *W.Ont.* Asst. to Student Publicns.: Mrs. Charlotte B. Perry, BA *W.Ont.*

## AFFILIATED COLLEGES

CANTERBURY COLLEGE, 172 Patricia Rd., Windsor, Ontario (tel.: Clearwater 6-6442). Principal—Rev. R. S. Rayson, MA *Qu.*, STB *General Theol. Sem.*, DD *Anglican Theol. Coll.* (B.C.). Anglican liberal arts coll., offering courses in theol., hist. and philos. to undergrads. in any course. Founded and affiliated 1957.

ESSEX COLLEGE, Windsor, Ontario (tel.: Clearwater 4-9246). Principal—F. A. DeMarco, MAsc PhD *Tor.*, FCIC. Non-denominational. Comm., engin., nursing, sci.; grad. work in sci. and comm. Founded and affiliated 1956.

HOLY NAMES COLLEGE, Windsor, Ontario (tel.: Clearwater 2-5998). Principal—Sister Marian Dolores, BA *Marylhurst*, MA PhD *Loyola(Ill.)*. Residential facilities for women. Founded and affiliated 1934. Instrucl. services merged with Univ. Coll. in 1950.

HOLY REDEEMER COLLEGE, Windsor, Ontario (tel.: Yorktown 9-2840). Principal—Very Rev. L. G. Owens, STL *Pontif. Athen. Angelicum*. Founded as St. Alphonsus Seminary, Woodstock, Ont., 1930. Affiliated, 1956. 4 yr. arts and 4 yr. theol. for Redemptorist scholastics.

## GENERAL INFORMATION

Founded 1857 by Rev. Pierre Point, pastor of Assumption Parish, Sandwich (Windsor). Incorporated 1858 by a public act of the legislature of the Province of Canada. Conducted by the Basilian Fathers in 1857-58 and since 1870. Most Rev. D. O'Connor, DD, president 1870-90, lengthened the arts course from 2 to 4 yrs., and was responsible for considerable academic and material progress. Affiliated with the fac. of arts and science of the Univ. of Western Ontario in 1919. The Assumption College Act, 1953, passed by the legislature of the province of Ontario, amended the original act of incorporation, varied the administration of the coll. and enlarged and specified its university powers. Affiliation ceased July 1, 1953, and the following year the coll. was admitted to the National Conference of Canadian Univs.

A reorganization of the fac. of arts and science took place in 1956, whereby the depts. of the natural scis., maths., engin., nursing educn. and bus. admin. were assigned to Essex Coll. under its own non-denominational bd. of dirs. and the remaining depts. of this fac. were grouped into an academic unit known as University College, under the direct control of the Assumption bd. of governors. In March 1956 the Ontario legis-

lature passed an act which changed the name of Assumption College to Assumption University of Windsor.

The univ. is located in the city of Windsor (pop. 190,880) and serves a pop. of approx. 331,000 in S.W. Ontario.

CONTROL AND SUPPORT. The univ. and university coll. are operated by the Basilian Fathers, a Roman Catholic order conducting univs., colls. and secondary schs. in Canada, the U.S.A. and France. There is wide community representation on the senate, board of regents and advisory council, and the facilities of the univ. are open to all, regardless of race, colour or creed. The affiliated colls. are legally and financially distinct, but subject in academic matters to the senate.

INCOME (1958-59). Total income (operational) \$1,485,734 (tuition & other student fees, 28.1 per cent.; govt. grants, 41.4 per cent. (federal, 18.5 per cent.; provincial, 18.5 per cent.; municipal, 4.4 per cent.); ancillary enterprises, 27 per cent.; other sources, 3.5 per cent.).

FACULTIES. See p. 135.

UNIVERSITY PRECINCT. The univ. is housed in a group of bldgs. on a 100-acre campus bordering the Detroit river. These include the adminis-

tration bldg., staff and student residences, Dillon Hall (Univ. Coll. lecture and seminar rooms, labs. for household sci., langs. and psychol.); Essex Coll. (biol., chem., engin., geol. and phys. labs., biol. museum, audio-visual aids); St. Denis Hall (gymnasium and swimming pool) and student union (offices of the students' admin. council, student press, lounge, cafeteria, drama workshop and games room). Extensive playing fields available on campus.

**LIBRARY.** opened 1958, has 94,000 vols. and 16,000 bound vols. of periodicals.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** 3 yrs.—BA, BSc, BComm; 4 yrs.—BA hons., BSc hons., BComm hons. (in bus. admin.), BHSc hons., BASc (in chem., civil, electr. and mech. engin., and in engin. phys.), BScN. The 1st yr. of pass and hons. courses is common; remaining yrs. are separate. BA hons. may be taken in econ. & pol. sci., Engl., French, hist., philos., psychol., Spanish; BSc hons. in biochem., biol., chem., maths., phys.

The univ. offers also a pre-pharmacy course (1 yr.) which must be completed at other univs.

*Evg. division* offers BA, BComm pass courses equivalent to those offered in day division but extending over a longer period.

**HIGHER DEGREES.** 1 yr. from hons. or 2 yrs. from pass degree—MA, MSc, MBA. These degrees are open to grads. of other univs. Courses of instructn. offered (for MA) in econ., Engl., hist., philos., psychol.; (for MSc) in biol., chem., maths., phys.; (for MBA) in bus. admin.; and (for MASc) in chem., civil, electr. and mech. engin.

**HONORARY DEGREES.** DCL, LL.D, DSc, DLitt, MusD.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Management, pub. health nursing, nursing educn., each course 1 yr., for grads. in respective fields.

**STUDY LEAVE.** It is regular practice to permit staff members pursuing higher degrees to have one or more calendar yrs.' leave of absence (in addition to summers).

**FEES.** Annual tuition and misc. fees—full-time: engin., \$500; all other courses—undergrad. \$425, grad. \$412.50; part-time and extension: \$40 1st hour, \$30 each additional hour (per wk. in winter session or per day in summer sch.). Students from outside the Commonwealth pay \$70 per subj. extra (to a max. of \$100 per yr.). Room and board—\$650 p.a.

**ACADEMIC YEAR.** Winter session, mid-Sept. to mid-May: 2 terms, 16 weeks each.

**SUMMER SESSION.** Day classes in selected undergrad. subjects are offered in a 6-wk. summer

session—July and Aug. BA pass course may be taken.

**ADULT EDUCATION.** Evening courses, provided for employed men and women seeking degrees and dipls., are open as well to those interested only in single subjects. In addition, extension courses, for which no academic credit is allowed, are offered at low cost for interested members of the public. Since 1934 the univ. has sponsored for public benefit an annual series of lectures and recitals by outstanding persons, known as the Christian Culture series.

**PRINCIPAL 'OPEN' AWARDS** offered to students entering the univ. for the first time. Univ. entrance scholps.—\$3200 (for out-of-town students) or \$2000 (for local students) (6 offered annually): \$1500 for residents of Essex Co. (unlimited number for grade XIII grads. with averages of 75 per cent. or better); Friends of Assumption Foundation, Inc. scholps.—\$2000 (2 offered annually); Assumption Alumni awards—\$3200 (2 offered annually). Students entering the univ. are eligible for Dominion-Provincial type A bursaries, Navy League of Canada bursaries, I.O.D.E. bursaries, Canadian Legion bursaries, Atkinson Charitable Foundation bursaries and others offered to students entering various instns. of higher learning.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** Fellowships, varying from \$500 to \$2000, offered for study towards MA and MSc degrees.

**MILITARY TRAINING.** Preparations for commissioned rank in the active or reserve forces of the Canadian navy, army or air force is made possible by membership in the univ. training division, the Canadian officers' training corps or the R.C.A.F. reserve univ. squadron. Trg. is on a pt.-time basis during the academic session, full-time during the summer months.

**STUDENT SERVICES.** Counselling and guidance facilities and a student placement service available. The univ. has dormitories for men (200) and, in Holy Names Coll., for women (80). The univ. maintains, in addition, a housing registry through which rooms or rooms and board may be located in near-by homes. Extra-curricular activities are controlled by an elected students' admin. council.

**ALUMNI ASSOCIATION.** Founded 1903. Monthly publication: *The Alumni Times*.

**PUBLICATIONS.** By the univ.—*President's Report*, *General Announcement* (incl. admission requirements, general regns. & courses), *Grad. Studies*, *evg. division*, summer session and admission brochures, all annually. By the students' admin. council—*The Lance*, bi-monthly newspaper; *The Ambassador*, annually; *Student Handbook*, annually; *The Kaleidoscope*, annually.



## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Total value of *all* **Statistics**  
benefactions received : \$1,018,917.

**NEW FACULTIES AND SCHOOL.** Fac. of appl. sci. ; fac. of grad. studies ; fac. of theol. ; school of bus. admin. within fac. of arts and sci.

**RESIGNATIONS.** Mrs. J. Evelyn Dalman (nursing), to Qu. ; C. D. Goodwin (econ. & pol. sci.), to Duke ; Sister M. John Thomas (Engl.) ; Rev. J. J. Keon (philos.) ; Rev. E. J. Lajeunesse (mod. langs.), to St. Basil's Sem., Tor. ; Mary C. Shaver (nursing), to grad. studies ; Mrs. Norma Surbeck (bus. admin.).

**DEATH.** G. Duwalo (phys.).

**HONORARY DEGREES.** *L.L.D.*—Celia Franca, artistic dir., natl. ballet of Canada ; F. S. Rivers, dep. minister of educn. ; J. G. Diefenbaker, prime minister.

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	813	730
Women . . .	189	310
Total . . .	1002	1040

**Distribution by Faculties.** *Appl. sci.*, 151 ; *arts & sci.*, 1842 ; *grad. studies*, 34 ; *theol.*, 15. Total : 2042.

*Included in the figures above are :—*

Postgraduate students, 49.

New admissions, 790.

Students from other countries (full-time only), 155. (Countries from which largest numbers came : U.S.A., 110 ; Hong Kong, 20 ; W. Indies Fed., 10 ; Venezuela, 6).

**DEGREES AWARDED (1958-59).** BA, 137 ; BComm, 25 ; BSc, 26 ; BScN, 2 ; MA, 3. *Total number of first degrees awarded*, 190.

**DIPLOMAS AWARDED (1958-59).** Bus. admin., 12 ; nursing educn., 8 ; pub. health nursing, 6.

# BISHOP'S UNIVERSITY

Founded 1843; Royal Charter 1853

*Postal Address* : Lennoxville, Quebec, Canada

*Cables and Telegrams* : Bishop's University, Lennoxville

*Telephone* : Lorraine 2-7922

VISITORS—THE ARCHBISHOP OF QUEBEC AND THE BISHOP OF MONTREAL

CHANCELLOR—Hon. Mr. Justice D. C. ABBOTT, BCL Hon. LLD *McG.*, Hon. DCL

VICE-CHANCELLOR AND PRINCIPAL—A. R. JEWITT, MA *Oxon.*, PhD *Corn.*, BA LLD *Dal.*, DCL

PRESIDENT OF THE CORPORATION—J. H. MOLSON, DCL

VICE-PRESIDENT OF THE CORPORATION—Lt.-Col. A. A. MUNSTER, DCL

REGISTRAR—W. L. TOMKINS, BA

VICE-PRINCIPAL—Professor A. L. KUEHNER, MA *Qu.*, DCL, FCIC

DEANS—ARTS AND SCIENCE—A. R. JEWITT, MA *Oxon.*, PhD *Corn.*, BA LLD *Dal.*, DCL; DIVINITY—  
Rev. S. JELlicoe, MA BD *Durh.*, DD *McG.*

## TEACHING STAFF

[† = Part-Time]

### Biology

Langford, A. L., BA *Qu.*, MA PhD *Tor.* Prof.  
Sepp, L., Grad in Zool *Tartu* (Zool.) Lectr.

### Business Administration

Duval, R. E., MBA *W.Ont.*, BA Prof.  
Patridge, D. C., MBA *Harv.* Asst. Prof.

### Chemistry

Kuehner, A. L., MA *Qu.*, DCL, FCIC Prof., Hd. of Dept.  
McCubbin, J. W., MSc *Qu.*, PhD *McG.* Prof.  
Van Horn, W. F., MSc *McG.*, BSc Asst. Prof.

### Classics

Preston, A. W., MA *Edin. & Oxon.* Prof.  
Thaler, R. P., BA *Tennessee*, MA *Ill.*,  
PhD *Harv.* Assoc. Prof.  
Fry, Marion G., MA *Dal.*, BLitt *Oxon.* Lectr.

### Divinity

Jellicoe, Rev. S., MA BD *Durh.*, DD *McG.* Prof.  
Anido, Rev. J. D. F., MA *Oxon.* Mountain Prof.  
Crouse, Rev. R. D., BA *Dal.*, STB *Harv.*,  
MTh *Trin.Coll.Tor.* (Church Hist.) Asst. Prof.  
Forth, Rev. D. S., BA BD *McG.*,  
LTh *Montreal Diocesan*, PhD *Camb.*  
(Syst. Theol. & N.T.) Asst. Prof.

### Economics

Judson, T. A., BSc *Manit.*, MA *Tor.* Assoc. Prof.

### Education

Jefferis, J. D., MA *McG.*, PhD *Tor.*, BA Prof.

### English

Gray, J., MA *Aberd. & Oxon.* Prof., Hd. of Dept.  
Motyer, A. J., BA *Mt.All.*, MA *Oxon.* Assoc. Prof.  
Reisner, T. A., BA *SirG.Wms.*,  
MA *Montr.* Lectr.  
Converse, W., BA †Lectr.

### History

Masters, D. C., MA *Tor.*, DPhil *Oxon.*,  
FRSCan Prof.  
Thaler, R. P., BA *Tennessee*, MA *Ill.*,  
PhD *Harv.* Assoc. Prof.

### Mathematics

Taylor, S., MA *Oxon.* Prof.  
Van Horn, W. F., MSc *McG.*, BSc Asst. Prof.

### Modern Languages

Yarrill, E. H., MA *Tor.*, Dipl'd'ÉtSup *Paris*,  
Cert *Inst.dePhon.,Paris* Prof.  
Keffer, I. W., BA *Tor.* Asst. Prof.

### Philosophy

Poole, C. F., BA *Dal.*, MA PhD *Tor.* Asst. Prof.  
Fry, Marion G., MA *Dal.*, BLitt *Oxon.* Lectr.

**Physics**

Home, M. S., BA *Br.Col.*, MSc *McG.* Prof.  
Isenor, N. R., BSc *Acad.*, MSc *McG.* Asst. Prof.

**Psychology**

Smith, D. D., BA *SirG.Wms.*, MA *Minn.*,  
PhD *McG.* Assoc. Prof.

**ADMINISTRATIVE AND OTHER STAFF**

Librarian: A. D. Banfill, BCL BLS *McG.*,  
BA. Asst. Librarian: Dorothy Van Horn, BA  
BLS *Simmons*. Sec.-Treasurer, Alumni Assoc.:  
A. R. Almond, BA. Dir. of Athletics & Place-

ment Officer: G. Smith. Hon. Consultant for  
Clin. Pastoral Trg.: T. J. Quintin, MD CM  
*McG.*, FACP.

**GENERAL INFORMATION**

The coll., founded in 1843 (and deriving its name from the 3rd bishop of Quebec who helped to found it), was in 1853 by royal charter constituted a univ. with power to confer degrees.

**CONSTITUTION.** The univ. is administered by a corporation, whose members are apptd. by jt. action of the Anglican bishops of the province of Quebec on the recommendation of a nominating cttee. composed of the chancellor, vice-chancellor and pres. and vice-pres. of the corporation. The corporation consists of 21 trustees and 9 coll. council members. An executive cttee., apptd. at annual meeting in Oct., consists of the chancellor, pres. and vice-pres. and principal *ex-officio* and 10 other members.

**INCOME (1958-59).** Total, \$419,000 (govt. grants, 24 per cent.; endowments, 19 per cent.; fees, 50 per cent.; other sources, 7 per cent.).

**FACULTIES.** Arts & sci.; div. For deans, *see* p. 141.

**LIBRARY.** 34,000 vols.

**LABORATORIES.** Biol., chem., phys.

**ADMISSION.** *See* Appendix II.

**FIRST DEGREES.** 4 yrs.—BA pass, hons.; BSc pass, hons.; BA in bus. admin. A student who enters the univ. with high standing may be allowed to complete pass degree course in 3 yrs. BA hons. may be taken in classics, econ., econ. & hist., econ. & maths., Engl., Engl. & French, Engl. & hist., Engl. & philos., French & hist., French & Latin, hist., hist. & philos., maths. & phys., mod. langs., or philos. & theol. BSc hons. may be taken in biol. & chem., chem. & maths., chem. & phys., or maths. & phys.

Theol. students take BA with theol. options (3 yrs.) followed by 2 yrs. of theol. study for LST.

**HIGHER DEGREES.** 2 yrs. postgrad.—MA (may be taken at present in educn., Engl., hist., theol.). 1 yr. postgrad. (or 4 summer sessions) plus 2 yrs. teaching experience—MEd. BD, DD and STh (scholar in theol.) awarded by the univ. in accord-

ance with regns. of Bd. of Examiners of General Synod of Anglican Church of Canada.

**HONORARY DEGREES.** DCL, DD.

The univ. does not award EXTERNAL DEGREES.

**LICENTIATE.** 2 yrs.—LST (lic. in sacred theol.).

**CERTIFICATE COURSE.** 1 yr. postgrad. course for Quebec high sch. cert.

**FEES (p.a.).** Tuition: \$400 (arts), \$310 (div. & educn.), \$435 (sci.). Bd. & lodging (incl. heating & lighting): \$600 extra (single room), \$550 (double room).

**ACADEMIC YEAR.** Two terms: Sept. to Dec., Jan. to May.

**SUMMER SESSION.** Grad. courses, with credits towards MEd, offered during 6 wk. summer session for secondary sch. teachers. All resident requirements for MEd may normally be met by attendance at 4 summer sessions.

There are no 'OPEN' POSTGRADUATE AWARDS offered by, or tenable solely at, the univ.

**STUDENT RESIDENCES.** Except for those living at home or with relatives, all undergrad. students must reside in the univ. or in approved lodgings; there are residences for 189 men (Norton Hall, McGreer Hall, Old Lodge, Pollack Hall) and for 115 women.

**MILITARY FORMATIONS.** C.O.T.C. Bishop's Univ. Contingent (C.O.: Capt. E. V. Pilgrim, MA) offers trg. for undergrads. who wish to prepare for commissions in the Canadian army (regular or militia).

**STUDENT EXECUTIVE COUNCIL.** Student affairs are administered by this council which also regulates the financial assistance given to student societies.

**PUBLICATIONS.** *Calendar* (March), no charge. Students: *The Mitre*, 3 times per session; *The Campus*, weekly during session; *The Year Book*, annual. History: *Bishop's University: The First Hundred Years*. D. C. Masters. (Clarke, Irwin, 1950).

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: women's residence (to accomm. 115); John Basset memorial library.

RESIGNATIONS. Rev. R. E. Reeve (div.), apptd. warden, Cranmer Hall, Durham; Rev. G. F. Illens (div.), to postgrad. study, Col.

HONORARY DEGREES. *DCL*—Hon. L. B. Pearson, leader, Liberal Party in Canada; Rt. Rev. F. H. Wilkinson, bishop of Toronto; Hon. J.-J. Bertrand, minister of lands & forests, Que. govt.; W. H. Campbell, chartered accountant; R. Clarkson, chairman of bd., Royal Trust Co.

Distribution by Faculties. *Arts & sci.*, 389; div., 11. Total: 400.

*Included in the figures above are:—*

Postgraduate students, 2.

New admissions, 157.

Students from other countries, nil.

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	245	1
Women . . .	154	—
Total	399	

DEGREES AWARDED (1958-59). *Arts & sci.*: BA, 55; BSc, 15. *Div.*: BD, 1; LST, 6.

DIPLOMAS AWARDED (1958-59). *Div.*, 6.

# UNIVERSITY OF BRITISH COLUMBIA\*

Founded 1908

Postal Address : Vancouver 8, British Columbia, Canada

Cables and Telegrams : Ubrico

Telephone : CA4-1111

VISITOR—THE LIEUTENANT-GOVERNOR OF THE PROVINCE

CHANCELLOR—A. E. GRAUER, BA PhD *Calif.*, LL.D

PRESIDENT—N. A. M. MACKENZIE, CMG, MM & Bar, QC, BA LLB *Dal.*, LL.M *Harv.*, LL.D *Mt. All.*, *New Br.*, *Tor.*, *Ott.*, *Brist.*, *Alta.*, *Glas.*, *Dal.*, *St.F.X.*, *McG.*, *Syd.*, *Roch.*, *Calif.* & *Alaska*, DCL *Sask.* & *Whitman*, DScSoc *Laval*, FRSCan

DEANS—ADMINISTRATIVE AND INTER-FACULTY AFFAIRS—W. H. GAGE, MA LL.D (Maths.) ; AGRICULTURE—B. EAGLES, MA PhD *Tor.*, BA, FRSCan, FCIC (Animal Sci.) ; APPLIED SCIENCE—D. M. MYERS, BSc BE DScEng *Syd.*, MIEAust, FIP (Electr. Engin.) ; ARTS AND SCIENCE—S. N. F. CHANG, OBE, MA *Tor.* (Psychol.) ; COMMERCE AND BUSINESS ADMINISTRATION—E. D. MACPHEE, MM, BEd MA *Edin.*, LL.D *Alta.* ; EDUCATION—N. V. SCARFE, MA *Lond.* ; FORESTRY—G. S. ALLEN, PhD *Calif.*, MASC ; GRADUATE STUDIES—G. M. SHRUM, OBE, ED, MM, MA PhD *Tor.*, FRSCan (Phys.) ; F. H. SOWARD, BA *Tor.*, BLitt *Oxon.*, FRSCan (Hist.) (Assoc. Dean) ; LAW—G. F. CURLES, QC, LLB *Sask.*, BA BCL *Oxon.*, LL.D *Dal.* & *Sask.*, DCL *New Br.* ; MEDICINE—J. F. MCCREARY, MD *Tor.*, FRCPCan ; PHARMACY—A. W. MATTHEWS, MSc *Alta.*, PhD *Flor.*, WOMEN—MRS. HELEN MCCRAE, BA *Tor.*, MSW

DEAN AND DEPUTY TO THE PRESIDENT—G. C. ANDREW, BA *Dal.*, MA *Oxon.*

REGISTRAR AND SECRETARY OF SENATE—J. E. A. PARNALL, MA *Tor.*, BA BEd

HONORARY BURSAR—E. D. MACPHEE, MM, BEd MA *Edin.*, LL.D *Alta.*

LIBRARIAN—N. HARLOW, EdB MA *Calif.*

## TEACHING STAFF

[†=Part-Time]

### Agricultural Economics

Anderson, W. J., BSA MSc *Sask.*, PhD *Chic.*  
Prof., Chairman of Dept.  
Richter, J. J., DrRerPol *Graz* Asst. Prof.

### Agricultural Engineering and Agricultural Mechanics

Coulthard, T. L., BE *Sask.*, MSc *Calif.*  
Prof., Chairman of Dept.  
Staley, L. M., MSc *Calif.*, BASc Asst. Prof.  
Watson, E. L., MSc *Calif.*, BASc Asst. Prof.

### Animal Science

Eagles, B., MA PhD *Tor.*, BA, FRSCan,  
FCIC (Dairying) Prof., Chairman of Div.  
Berry, J. C., PhD *Iowa State Agric.*,  
MSA (Animal Husb.) Prof.  
Campbell, J. J. R., PhD *Corn.*, BSA  
(Dairying) Prof.

Wood, A. J., PhD *Corn.*, MSA  
(Animal Husb.) Prof., Dir. of Central  
Animals Depot  
Mackenzie, C. D., PhD *Aberd.*, MSA  
(Animal Husb.) Prof., Asst. to Dean  
Kitts, W. D., PhD *Iowa State Agric.*, MSA  
(Animal Husb.) Assoc. Prof., Assoc. Dir.  
of Central Animals Depot  
Neilson, Nora E., PhD *Calif.*, MSA  
(Dairying) Asst. Prof.

### Anthropology and Sociology

Hawthorn, H. B., MSc BA *N.Z.*, PhD *Yale*,  
FRSCan (Anthropol.) Prof., Hd. of Dept.  
Belshaw, C., MA *N.Z.*, PhD *Lond.*  
(Anthropol.) Assoc. Prof.  
Naegelc, K. D., BA *McG.*, AM *Col.*,  
PhD *Harv.* (Sociol.) Assoc. Prof.  
Suttles, W., BA PhD *Wash.*  
(Anthropol.) Assoc. Prof.

Member of the Association of Universities of the British Commonwealth

Robson, R. A. H., BSc *Lond.*, PhD *Minn.*  
(Sociol.) Assoc. Prof.  
Cohn, W., BSS *C.C.N.Y.*, PhD *N.Y. Sch.*  
for Soc. Res. Asst. Prof.  
Jamieson, S., MA *McG.*, PhD *Calif.*, BA  
(Sociol.) Lectr.  
Bhishen, B. R., MA *McG.* (Sociol.) Lectr.  
Erdlen, C. E., MA PhD *Calif.*  
(Archaeol.) Lectr.  
Srivastava, R. P., MA *Luck.*, PhD *Saug.*  
(Anthropol.) Visiting Lectr.

### Architecture

Lasserre, F., BArch *Tor.* Prof., Dir. of Sch.  
Wisnicki, B. P., DipEng *Lwow* Prof.  
Oberlander, H. P., BArch *McG.*, MCP  
PhD *Harv.* (Planning & Design) Assoc. Prof.  
Gerson, W. Assoc. Prof.  
Robinson, I. M., AB *Wesleyan*, MA *Chic.*  
(Planning) Asst. Prof.  
Lyman, V. F., IngArch *Prague* Asst. Prof.  
Jackson, A. C., BArch *McG.* Asst. Prof.  
Rogatnick, A., BA BArch *McG.* Asst. Prof.  
Thomas, L. A. J. Asst. Prof.  
Tiers, C. A., MArch *M.I.T.*, BArch Instr.  
Hodge, G. J. F., MCP *Calif.*, BA Instr.  
Bunting, B. C. (Fine Arts) Hon. Lectr.  
Davison, K. B., BArch *Manit.* Sp. Lectr.  
Marsh, L. C., BSc(Econ) *Lond.*,  
MA PhD *McG.* Sp. Lectr.  
Beck, S. M., LL.M *Yale*, BA LL.B Sp. Lectr.  
McNab, D. S., BArch *McG.* †Lectr.  
Porter, J. C. II., BArch *McG.* †Lectr.  
Webster, J. W., BSc *Glas.*, MSc *M.I.T.*,  
MRP *N.Carolina* †Lectr.

### Asian Studies

Soward, F. H., BA *Tor.*, BLitt *Oxon.*,  
FRSCan Prof., Dir.  
Ho, Ping-ti, BA *Natul.Tsing Hui*,  
PhD *Col.* Prof.  
Wang, Yi-T'ung, MA *Yenching*, PhD *Harv.*  
Assoc. Prof.  
Ikato, S., MD *Tokyo* Asst. Prof.  
McKay, J. R., BA *Clark*, MA *Boston*,  
PhD *Montr.*, FRSCan Lectr.  
Sattles, W., BA PhD *Wash.* Lectr.  
Langdon, F. C., MA *Harv.*, PhD *Calif.* Lectr.

### Bacteriology and Immunology

Dolman, C. E., MB BS PhD DPH, FRCPCan,  
FRCP, FRSCan Prof., Hd. of Dept.  
Duff, D. C. B., MA PhD *Tor.* Prof.  
Bismanis, J. E., DipBact *Latvia*, MD Asst. Prof.  
Stock, J. J., BSA *Tor.*, MSc PhD *McG.*  
Asst. Prof.  
Cockcroft, W. H., DPH MD *Tor.* Asst. Prof.  
Gerwing, Mrs. Julia, PhD *Lond.*, BA Instr.  
Shearer, A. R., BA †Lectr.

### Biology and Botany

Taylor, T. M. C., MS *Wis.*, PhD *Tor.*, BA  
Prof., Hd. of Dept. & Dir. of Bot. Garden  
Allardice, J., PhD *McG.*, MA Prof.

Wort, D. J., MSc *Sask.*, PhD *Chic.* Prof.  
Bier, J. E., BScF MA PhD *Tor.* Prof.  
Krajina, V., DSc(NatSc) *Prague* Prof.  
Scagel, R. F., PhD *Calif.*, MA  
(Oceanog.) Assoc. Prof.  
Pillsbury, R. W., MA Asst. Prof.  
Cole, Kathleen, PhD *Smith*, MA Asst. Prof.  
Bandoni, R. J., BS *Nevada*, MS PhD *Iowa*  
Asst. Prof.  
Rouse, G. E., BA MSc PhD *McM.* Asst. Prof.  
Kuijit, J., PhD *Calif.*, BA Instr.  
Beamish, Katherine, PhD *Wis.*, MSA Instr.  
Hutchinson, A. H., MA *McM.*, PhD *Chic.*,  
FRSCan Hon. Lectr., Prof. Emer.

### Business Administration, see Commerce and Business Administration

### Chemistry

McDowell, C. A., DSc *Belf.*, FRIC, FCIC  
Prof., Hd. of Dept.  
Hooley, J. G., PhD *M.I.T.*, MA, FCIC Prof.  
Harris, J. A., PhD *Ill.*, MA, FCIC Prof.  
Reid, C., DIC, BSc PhD *Lond.*, FCIC Prof.  
Bryce, W. A., MA *Sask.*, PhD *McG.*,  
DPhil *Oxon.*, FCIC Assoc. Prof.  
Dutton, G. G. S., MA *Camb.*, MSc *Lond.*,  
PhD *Minn.*, FRIC Assoc. Prof.  
Halpern, J., BSc PhD *McG.*, FCIC Assoc. Prof.  
Hayward, L. D., BA *Sask.*, PhD *McG.*,  
FCIC Assoc. Prof.  
Stewart, J. R., PhD *Wash.*, MA, FCIC  
Assoc. Prof.  
Bonnett, R. A., BSc *Lond.*, PhD *Camb.*  
Asst. Prof.  
Clark, H. C., MSc PhD *N.Z.*, PhD *Camb.*  
Asst. Prof.  
Daggett, H. M., Jr., BSc *Qu.*, PhD *Brown*  
Asst. Prof.  
Dunell, B. A., AM PhD *Prin.*, MASC,  
FCIC Asst. Prof.  
Frost, D. C., BSc PhD *Liv.* Asst. Prof.  
Harrison, L. G., BSc PhD *Liv.* Asst. Prof.  
Harvey, K. B., BA *Tor.*, DSc *Laval* Asst. Prof.  
James, D. G. L., MA PhD *Camb.* Asst. Prof.  
Porter, G. B., BS *Calif.*, PhD *S.Calif.* Asst. Prof.  
Farmer, J. B., BSc PhD *Liv.* Asst. Prof.  
Snider, R. F., BSc *Alta.*, PhD *Wis.* Asst. Prof.  
Cullen, W. R., MSc *N.Z.*, PhD *Camb.*  
Asst. Prof.  
Hochstrasser, R., PhD *Edin.* Asst. Prof.  
Reeves, L. W., BSc PhD *Brist.* Asst. Prof.  
Trotter, J., BSc PhD *Glas.* Asst. Prof.  
Rosenthal, A., BEd MSc *Alta.*, PhD  
*Ohio State* Asst. Prof.  
Bartlett, N., BSc PhD *Durh.* Instr.  
Coope, J. A. R., DPhil *Oxon.*, MA Instr.  
Butter, J. N., BSc *Rensselaer*, PhD *Harv.* Instr.  
Kutney, J. P., BSc *Alta.*, MSc *Wis.*,  
PhD *Wayne* Instr.  
Ogryzlo, E. A., MSc *Manit.*, PhD *McG.* Instr.  
McGeer, D. E., MSc *Alta.*, PhD *Ill.* Instr.  
Pincok, R. E., BS *Utah*, PhD *Harv.* Instr.  
King, Ruth, MSc *Lond.* Lectr.

Premuzic, E., MSc *Birm.*  
 Muenster, L., BA  
 12 Post-Doctoral Res. Fellows

### Classics

McGregor, M. F., PhD *Cinc.*, MA,  
 FRSCan Prof., Hd. of Dept.  
 Grant, W. L., AM *Harv.*, PhD *Tor.*, BA Prof.  
 Guthrie, P. C. F., CD, BA *Manit.*,  
 MA PhD *Tor.* Assoc. Prof.  
 Riddehough, G. B., AM *Calif.*, PhD *Harv.*,  
 MA Assoc. Prof.  
 Eliot, C. W. J., MA *Tor.* Asst. Prof.  
 McLeod, W. E., BA *Tor.*, AM *Harv.* Instr.  
 Morrison, Elizabeth L., BA *Manit.* Lectr.  
 Logan, H. T., MC, BA *McG.*, MA *Oxon.*  
 Prof. Emer., Sp. Lectr.

### Commerce and Business Administration, see below

### Economics and Political Science

Young, J. H., MA *Qu.*, PhD *Camb.*  
 Prof., Hd. of Dept.  
 Crumb, J. A., BBA *Wash.*, MS PhD *Calif.*  
 (Econ.) Prof.  
 Jamieson, S., MA *McG.*, PhD *Calif.*, BA  
 (Econ.) Prof.  
 Anderson, W. J., BSA, MSc *Sask.*,  
 PhD *Chic.* (Agric. Econ.) Prof.  
 Ronimoi, H. E., MSc(Econ) *Tartu*,  
 PhD *Lond.* Assoc. Prof.  
 Clark, R. M., AM PhD *Harv.*, BA BCom  
 (Econ.) Assoc. Prof.  
 Scott, A. D., AM *Harv.*, PhD *Lond.*, BCom  
 BA (Econ.) Assoc. Prof.  
 Moore, A. M., BA *Qu.*, AM *Chic.* Assoc. Prof.  
 Matuszewski, T. I., MSc(Econ) *Lond.*  
 Assoc. Prof.  
 Laponce, J., Dipl *Inst.d'Ét.Pol., Paris*,  
 PhD *Calif.* Asst. Prof.  
 Stankiewicz, W. J., MA *St.And.*, PhD *Lond.*  
 Asst. Prof.  
 Langdon, F. C., AM *Harv.*, PhD *Calif.*  
 Asst. Prof.  
 Smiley, D. V., MEd MA *Alta.*, PhD *North-*  
*western* Asst. Prof.  
 Will, R. M., BA *W.Ont.*, AM PhD *Duke*  
 Asst. Prof.  
 Cairns, H. A. C., MA *Tor.* Instr.  
 Richter, J. J., DrRerPol *Graz* Instr.  
 The President (Pol. Sci.) Hon. Lectr.  
 Angus, H. F., BA *McG.*, MA BCL *Oxon.*,  
 LLD *McG. & Br.Col.*, FRSCan  
 Hon. Lectr., Prof. Emer.  
 Robinson, I. F., AB *Wesleyan*, MA *Chic.*  
 Sp. Lectr.  
 McGuigan, G. F., MA *Tor.* Instr.

### Education, Faculty of

Scarfe, N. V., MA *Lond.* Prof.  
 Argue, K. F., BA *Alta.*, MA *Oxon.*, EdD *Col.*  
 Prof., Dir. of Summer Session

Lectr. Johnson, F. H., DPæd *Tor.*, MA  
 Lectr. Prof., Dir. of Elem. Teacher Educn.  
 Gilliland, H. C., MA  
 Hon. Prof., Dir. of Teacher Educn.,  
 Victoria Coll.  
 McIntosh, J. R., BA MEd *Sask.*, PhD *Col.*  
 Prof., Dir. of Secondary Teacher Educn.  
 Broome, E. B., BEd MA  
 Prof., Asst. to Dir. of Elem. Educn.  
 Stein, H. L., MA *Manit.*, PhD *Minn.*  
 Prof., Supervisor of Grad. Studies  
 Katz, J., BA MEd *Manit.*, PhD *Chic.*  
 (on leave) Prof.  
 Marquis, G. W., MA *Whitman*, PhD *Calif.* Prof.  
 Richardson, J. A., BA *Liv.*, MA *Birm.*,  
 PhD *Q'ld.* Prof.  
 Smith, C. E., BSc *Lond.*, MA DPæd *Tor.*,  
 LLD *Manit.*, FBPsS Prof.  
 Hollinbeck, W. C., BA *Occidental*,  
 BD *San Francisco*, MA PhD *Col.*  
 (Adult Educn.) Visiting Prof.  
 Verner, C., AM *William & Mary*, MA  
 PhD *Col.* Visiting Prof.  
 Auld, W. H., EdM *Oregon State*, BA  
 Assoc. Prof., Asst. Supervisor of Student  
 Teaching  
 Black, S. Assoc. Prof.  
 Birkett, Mrs. Alice G., MA *Calif.*, BA  
 Assoc. Prof.  
 Boughton, R. C., MSc *Manit.*, PhD *Minn.*  
 Assoc. Prof.  
 Brown, L. E., BPE MA *Oregon* Assoc. Prof.  
 Covell, H. M., BA *Sask.*, BEd *Manit.*,  
 EdD *Flor.* Assoc. Prof.  
 Deyell, Edith M., BA *Qu.*, MA *Col.* Assoc. Prof.  
 Dolmage, Grace, BA *Manit.*,  
 MEd *Northwestern* Assoc. Prof.  
 Ellis, F. E., AB *Reed*, BA *W.Wash.Coll.*,  
 DEd *Harv.* Assoc. Prof.  
 Hardwick, F. C., MA Assoc. Prof.  
 Kilgour, A. Jean, MA Assoc. Prof.  
 McGechaen, J., MA  
 Assoc. Prof., Assoc. Dir. of Summer  
 Session  
 Ozard, E. G., BA *Wash.* Assoc. Prof.  
 Tomkins, G. S., BA BS *SirG.Wms.*,  
 MA *McG.* Assoc. Prof.  
 Truax, C. W., BA BEd  
 Assoc. Prof., Supervisor of Student  
 Teaching  
 Boyles, Sadie M., MA  
 Assoc. Prof., Asst. to Dir. of Secondary  
 Educn.  
 Cottingham, Mollie, MA Assoc. Prof.  
 Gibbard, D. C., MA *Wash.* Assoc. Prof.  
 Gibbard, J. E., MA BEd Assoc. Prof.  
 MacKay, Vera A., BA *Tor.*, MS  
 EdD *Indiana* Assoc. Prof.  
 Young, J. T., MA BEd Assoc. Prof.  
 Slind, I. H., BSc *Sask.*, BMus *Montr. &*  
*Sask.*, EdD *Flor.* Assoc. Prof.  
 Smith, D. C., DEd *Calif.*, BA BEd Assoc. Prof.  
 Smith, R. N., EdD *Col.*, MA Assoc. Prof.  
 Baxter, Edna, MA *Wash.*, BA Asst. Prof.

Clingman, A. E., MMus <i>Drake</i> , MA DED <i>Col.</i>	Asst. Prof.	Thomas, O. J., BA <i>McG.</i>	Lectr.
Davis, D. E., BA <i>Calif.</i> , MMus <i>Northwestern</i> , DED <i>Oregon</i>	Asst. Prof.	Towell, A. S., MA	Sp. Lectr.
Gamble, F. E., BFA <i>Nebraska</i> , MA <i>C.U.A.</i> , DED <i>Col.</i>	Asst. Prof.	Vey, Mrs. Florence, BED	Lectr.
Mcderith, Kathleen L., BA <i>W.Ont.</i>	Asst. Prof.	Whittle, H. D., BPHE <i>Tor.</i> , MS PhD <i>Oregon</i>	Lectr.
Munro, B. C., BA <i>Bed Sask.</i> , MED PhD <i>Alta.</i>	Asst. Prof.	Wiseman, E.	Lectr.
McConnell, Ruth, MA	Asst. Prof.	2 Teaching Assts.	
McRae, Joyce, BED	Asst. Prof.	Also members of fac. representing other depts. & Victoria Coll.	
Nalevykin, Shirley, BA <i>Sask.</i> , BSc <i>McG.</i> , MS <i>Mich.</i>	Asst. Prof.	<b>Engineering, Chemical</b>	
Whitinger, B. R., BE <i>St.Cloud</i>	Asst. Prof.	Forsyth, J. S., BSc <i>Glas.</i> , PhD <i>Leeds</i>	Prof., Hd. of Dept.
Penner, P. G., BA <i>Bed Sask.</i> , MA <i>Wash.</i>	Asst. Prof.	Cavers, S. D., PhD <i>Cal.Tech.</i> , MASC, FCIC	Assoc. Prof.
Macdonald, J. A. S.	Asst. Prof.	Scott, D. S., MSc <i>Alta.</i> , PhD <i>Ill.</i>	Assoc. Prof.
MacKenzie, Mrs. Hilda M., BA	Asst. Prof.	Epstein, N., MEng <i>McG.</i> , EngScd <i>N.Y.</i>	Assoc. Prof.
O'Connell, M. Sheila, BA (on leave)	Asst. Prof.	Patterson, R., PhD <i>McG.</i> , MASC (Pulp & Paper Technol.) Hon. Lectr.	
Lanning, W., BLS <i>Col.</i> , BA	Asst. Prof.	<b>Engineering, Civil</b>	
McGann, J. D., MA <i>Conn.</i> , ED <i>Boston</i>	Asst. Prof.	Muir, J. F., BSc <i>Manit.</i>	Prof., Hd. of Dept.
Shopland, Stella, DipLibSc <i>Tor.</i> , MA	Asst. Prof.	Finlay, A. H., MC, MS in CE <i>Ill.</i> , BASc	Prof.
Smith, G. A.	Asst. Prof.	Hrennikoff, A., Grad Inst. <i>Communication</i> <i>Eng.</i> , <i>Moscow</i> , Scd <i>M.I.T.</i> , MASC	Prof.
Roxburgh, Jean, BA <i>BED</i>	Asst. Prof.	Pretious, E. S., MSc <i>Iowa</i> , BASc	Prof.
Thomas, A. M., BA <i>Tor.</i> , AM <i>Col.</i>	Asst. Prof.	Peebles, A., MSc <i>Iowa State Agric.</i> , BASc BA	Prof.
Ellis, J. F., BA	Asst. Prof.	Lipson, S. L., MS <i>Cal.Tech.</i> , BASc	Prof.
Campbell, Mrs. P. R., BED <i>Sask.</i> , MS PhD <i>Wis.</i>	Instr.	de Jong, S. H., MSc <i>Manit.</i>	Assoc. Prof.
Devereaux, Mrs. Louise, BPE	Instr.	Heslop, W. G., BASc <i>Tor.</i>	Assoc. Prof.
Hambleton, D. C., BED <i>Sask.</i> , MA <i>Col.</i>	Instr.	Hoolley, R. F., MSc PhD <i>Stan.</i> , BASc	Assoc. Prof.
Hannmarstrom, Louise, BPE	Instr.	Bell, H. R., DiplSurvey <i>Lond.</i> , BASc MScEng	Asst. Prof.
Healy, S. D., BA <i>Mt.All.</i> , AM <i>Col.</i>	Instr.	Cherry, S., BSc(CE) <i>Manit.</i> , MS <i>Ill.</i> , PhD <i>Brist.</i>	Asst. Prof.
Lawson, D., BSS <i>C.C.N.Y.</i> , MA DED <i>Col.</i>	Instr.	Ruus, E., Grad <i>Tallinn</i> , DrEng <i>T.H.</i> <i>Karlsruhe</i>	Asst. Prof.
Seal, R. F.	Instr.	Anderson, J. D., MS(CE) <i>Wash.</i> , BASc	Asst. Prof.
Barclay, L., BA	Lectr.	Nathan, N. D., BSc <i>Rand</i> , SM <i>M.I.T.</i>	Asst. Prof.
Black, Charlotte, BSChE <i>Manit.</i> , AM <i>Col.</i>	Lectr.	<b>Engineering, Electrical</b>	
Brown, Margaret E., BED	Lectr.	Noakes, F., BSc <i>Alta.</i> , MS PhD <i>Iowa State</i> <i>Agric.</i>	Prof., Hd. of Dept.
Cannon, G. H., BA <i>Bed MSc</i>	Lectr.	Myers, D. M., BSc BE DScEng <i>Syd.</i> , MIEAust, FIP	Prof.
Clements, H. M., BA <i>Calif.</i> , MA <i>San</i> <i>Francisco</i>	Lectr.	Moore, A. D., MSc <i>Qu.</i> , PhD <i>Stan.</i>	Assoc. Prof.
Foster, M. I.	Lectr.	Kersey, L. R., BASc	Assoc. Prof.
Gornall, F., BA <i>BED</i>	Lectr.	Bohn, E. V., DrRerNat DiplMath <i>Gött.</i>	Assoc. Prof.
Gouldston, Mrs. Alice	Lectr.	Bowers, F. K., MA <i>Camb.</i>	Assoc. Prof.
Hallamore, Joyce, PhD <i>Munich</i> , MA	Lectr.	Beddoes, M. P., BSc <i>Glas.</i> , DIC, PhD <i>Lond.</i>	Asst. Prof.
Heywood, R. H., BA	Lectr.	Szablya, J. F., DiplEng DiplEcon DiplEduc DrEcon <i>Bud.</i>	Asst. Prof.
Lathwaite, A. B., CD, DipPE <i>Carnegie</i> <i>Phys.Trg.Coll.</i>	Lectr.	Walker, G. B., MA <i>Glas.</i> , PhD <i>Lond.</i>	Res. Prof.
Leduc, R. J., BED <i>Alta.</i> , MS <i>Oregon</i>	Lectr.	Clement, B. D., BASc	Instr.
McGregor, M. F., PhD <i>Cinc.</i> , BA	Lectr.	Sodomsky, K. F., BSc <i>Manit.</i> , PhD <i>Lond.</i>	Instr.
McIntosh, D. J., BA	Lectr.	Pullinger, W. W., BASc	Lectr.
MacPherson, E., BA	Lectr.	Scott, P., BASc	†Lectr.
Mitchell, J. R., BPE <i>BED</i>	Lectr.	2 Demrs., 1 Res. Assoc., 1 Res. Engineer	
Parker, Ilsa, BA <i>Manc.</i>	Lectr.		
Renney, A. J., MS <i>Calif.</i> , PhD <i>Oregon</i> <i>State</i> , BSA	Lectr.		
Rizer, Mrs. Dorothy, BA <i>Calif.</i> , MA <i>Central Wash.Coll.</i>	Lectr.		
Schrodt, Barbara, MS <i>Oregon</i>	Lectr.		
Sinclair, Mrs. N., BED MA <i>Alta.</i>	Lectr.		
Stevenson, J.	Lectr.		
Sutherland, N., BA	Lectr.		



**Engineering, Mechanical**

Richmond, W. O., MS Pitt., BASc  
 Prof., Hd. of Dept.  
 McIlroy, H. M., MSc Qu.  
 Wolfe, W., MSc CaseSch. of Appl. Sci.,  
 BASc BA  
 Prof.  
 Parkinson, G. V., MS PhD Cal. Tech.,  
 BASc Lectr. in Aeron. Engin., Assoc. Prof.  
 Boston, R. E., BASc MCom Tor.  
 Young, J., BSc Glas., MS Ill.  
 Brockley, C. A., PhD Sheff., BA BASc  
 Wighton, J. L., MSE PhD Mich.,  
 BA BASc  
 Vernon, F. W., BSc Lond.  
 Cox, L., BASc  
 1 Demr.

**English**

Daniells, J. R., PhD Tor., BA, FRSCan  
 Prof., Hd. of Dept.  
 Akrigg, G. P. V., PhD Calif., MA  
 Andrew, G. C., BA Dal., MA Oxon.  
 Birney, A. E., MA PhD Tor., BA, FRSCan  
 Creighton, J. H., MA Tor.  
 Lewis, H. C., MA  
 Morrison, E., AM PhD Calif., BA  
 Read, S. E., MA McG.  
 Robbins, W., PhD Tor., MA  
 Watters, R. E., MA Tor., PhD Wis.  
 Cragg, R. C., MA PhD Tor.  
 Humphrey, Ruth, BA Mt. All., MA Oxon.  
 Spaulding, J. G., AB Pomona, PhD Calif.  
 Steinberg, M. W., MA Qu., PhD Tor.  
 Smith, Mrs. Marion B., MA Tor.,  
 PhD Penn.  
 Thompson, W. M., MA Tor., McM. &  
 Oxon., DrPhil Bres.  
 Thomson, W., MA Glas.  
 Baker, R. J., MA  
 Baxter, Edna L., AM Wash., BA  
 deBruyn, J., MA Lond., BA  
 Fredeman, W. E., BA Hendrix, MA  
 PhD Oklahoma  
 Gose, E. B., MA Colorado, PhD Corn.  
 Hall, W. F., MA Camb., PhD Johns H.  
 Hopwood, G. V., MA PhD Tor., BA  
 Jordan, R. M., AB Colorado, MA PhD Calif.  
 MacKenzie, Mrs. Mabel, MA PhD Tor.  
 Miller, C. W., BEd MA Sask., PhD Wash.  
 Piloto, A. E., MA McG., MLitt Camb.  
 Pinkus, P., PhD Mich., BA Tor.  
 Sawyer, A. E., BA Tor.  
 Tallman, W., BA Wash.  
 Wigod, J. D., AB N. Y., AM PhD Harv.

Woodcock, G.  
 Booth, M., MA Lond., BA  
 Burhans, C., BA Syr., MA Wis.  
 Hulcoop, J. F., BA Lond.  
 Berner, R. L., MA Wash.  
 Friedson, A. M., BA Simpson, MA  
 PhD Iowa  
 Allen, L. B., MA St. And.  
 Brooks, Mrs. H., MA  
 Campbell, P., BA N. Staffs., MA  
 Elliott, G. R., AM Harv., MA  
 Frazer, Frances, BA McM.  
 Fulton, M., BA Manit.  
 Lawrence, J. C., MA  
 Lewis, Mrs. Stella, MA  
 Lewis, J. C., BA Yale  
 Marriage, Mrs. S., BA Lond.  
 Morton, M. K., BA Tor., MA Col.  
 Nemser, Ruby, MA McG.  
 Newby, F. S., BA Redlands, MA Calif.  
 Savery, Mrs. Barnet, MA McG.  
 Stephens, D. G., MA New Br.  
 Watson, Mrs. C., BA Sask.  
 Zilber, J., BA Wis., MA Wash.  
 6 Reps. from Fac. of Educn.

**Fine Arts**

Binning, B. A.  
 Cragg, R. C., MA PhD Tor.  
 McNaurn, I., BA McM.  
 Ozard, E. G., BA Wash.  
 Black, S.  
 Robinson, Mrs. Orence, BScHIEc Alta.  
 MacDonald, J. A. S.  
 Smith, G. A.  
 Thomas, L. A. J.

**Forestry**

Allen, G. S., PhD Calif., MASE  
 (Silviculture) H. R. MacMillan Prof  
 Knapp, F. M., BSF Syr., MSF Wash.  
 Dir. of Univ. Forest, Prof.  
 Wellwood, R. W., MF PhD Duke, BASc  
 Griffith, B. G., MF Harv., PhD Wash., MA  
 Ker, J. W., MF DFor Yale, BASc  
 Assoc. Dir. of Univ. Forest, Assoc. Prof.  
 Haddock, P. G., BS PhD Calif.  
 Smith, J. H. G., MF PhD Yale, BSF  
 Graham, K., MSc McG., PhD Tor., BA  
 (For. Entomol.) Prof.  
 Bier, J. E., BScF MA PhD Tor.  
 (For. Pathol.) Prof.  
 Krajina, V., DSc(NatSc) Prague  
 Fensom, K. G., BScF Tor.  
 (Forest Prod.) Hon. Lectr.  
 Kennedy, R. W., BS N. Y. State, MF  
 Walters, J., MF  
 Tessier, J. P., BScF New Br., MF Yale  
 Resident Forester in Trg. & Sp. Lectr.  
 Orchard, C. D., MScF DSc New Br.  
 Dixon, L. B.  
 (Lumber Grad.) † Lectr.

Sziklai, O., DiplForEng *Sopron*  
13 Reps. from other Facs.

#### Sopron Division

Roller, K., DiplForEng *Sopron*,  
CandAgricSci *Bud.*

Adamovich, L., DiplForEng *Sopron*

Apt. O., DiplForEng *Sopron*

Fodor, G., DiplForEng *Sopron*

Jablanczy, S., DiplForEng *Prague*,  
CandAgricSci *Bud.*

Kornya, L., DiplArts *Debrecen*

Pap, F., DiplMinEng *Sopron*

Tusko, F., DiplForEng *Sopron*,  
CandBiolSci *Bud.*

Szv. F., DiplForEng *Sopron*

Salamon, M., DipMechEng *Bud.*

Lectr.

Dean, Dir.

Prof.

Prof.

Prof.

Prof.

Prof.

Prof.

Prof.

Asst. Prof.

Lectr.

#### French, see Romance Studies

#### Geography

Robinson, J. L., BA *W.Ont.*, MA *Syr.*,  
PhD *Clark* Prof., Hd. of Dept.

Mackay, J. R., BA *Clark*, MA *Boston*,  
PhD *Montr.*, FRSCan Prof.

Chapman, J. D., MA *Oxon.*, PhD *Wash.*  
Assoc. Prof.

Earley, A. L., MA Asst. Prof.

Staerck, J. K., BA *McM.* Instr.

Mathews, W. H., PhD *Calif.*, MAsc,  
FGSA, FRSCan Sp. Lectr.

Warren, H. V., BSc DPhil *Oxon.*,  
BA BASc, FRSCan, FGSA Sp. Lectr.

Scarfe, N. V., MA *Lond.* Sp. Lectr.

Wallis, J. H., BA Sp. Lectr.

#### Geology

Okulitch, V. J., PhD *McG.*, MAsc, FGSA,  
FRSCan

(Palaeontol. & Stratig.) R. W. Brock  
Prof., Hd. of Dept.

Warren, H. V., BSc DPhil *Oxon.*, BA BASc,  
FRSCan, FGSA (Mineral.) Prof.

Mathews, W. H., PhD *Calif.*, MAsc,  
FGSA, FRSCan Prof.

White, W. H., PhD *Tor.*, MAsc, FGSA Prof.

Thompson, R. M., PhD *Tor.*, MAsc Assoc. Prof.

McTaggart, K. C., MSc *Qu.*, PhD *Yale*,  
BA BASc Assoc. Prof.

Best, R. V., PhD *Prin.*, MAsc Asst. Prof.

Danner, W. R., MS PhD *Wash.* Asst. Prof.

Ross, J. V., ARCS, DIC, BSc PhD *Lond.*  
Asst. Prof.

Swanson, C. O., PhD *Wis.*, MAsc, FGSA,  
FRSCan Hon. Prof.

Rouse, G., BA MSc PhD *McM.* Instr.

Delavault, R. E., BLett LèsSc *DUParis*  
(Geochem.) Res. Assoc.

Cockbain, A. E., BSc PhD *Nott.*  
(Geol. Oceanog.) Res. Assoc.

Williams, M. Y., BSc *Qu.*, PhD *Yale*, FGSA,  
FRSCan

Hon. Curator of Museum, Prof. Emer.

Mackay, J. R., BA *Clark*, MA *Boston*,  
PhD *Montr.*, FRSCan Sp. Lectr.

Yole, R. W., BSc *New Br.*, MA *Johns H.* Lectr.

#### German

Hallamore, Joyce, PhD *Munich*, MA

Prof., Hd. of Dept.

Borden, C. E., MA PhD *Calif.* Prof.

McNeely, J. A., MA PhD *Calif.*, BA Asst. Prof.

Batts, M. S., BA *Lond.*, DPhil *Freib.* Asst. Prof.

Anderson, A. R., BA *Tor.* Instr.

Goetz, Marketa C., MA PhD *Tor.* Instr.

Loeb, E., MA *Penn.* Instr.

Taylor, Mrs. Pauline, MA Lectr.

Sorensen, O. M., MA *Stan.* Lectr.

Runge, Britta, BA Lectr.

#### Graduate Studies

Shrum, G. M., OBE, MM, MA PhD *Tor.*,  
FRSCan Prof.

Soward, F. H., BA *Tor.*, BLitt *Oxon.*,  
FRSCan Prof., Assoc. Dean

Parnall, J. E., MA *Tor.*, BA BEd  
Sec. & Registrar

Membership in Fac.: Hds. and fac. reps. of  
depts. offering grad. work.

#### History

Soward, F. H., BA *Tor.*, BLitt *Oxon.*, FRSCan  
Prof., Dir. of Internat. & Asian Studies,

Hd. of Dept.

Cooke, A. C., BA *Manit.*, MA *Oxon.* Prof.

Ormsby, Margaret A., PhD *Bryn Mawr*, MA  
Prof.

Ho, Ping-ti, BA *Natnl.TsingHua*,  
PhD *Col.* Prof.

Davies, G. O. B., MA *Camb.* Assoc. Prof.

Norris, J. M., MA PhD *Northwestern* Asst. Prof.

Neathy, H. B., BA *Sask.*, MA *Oxon.*,  
PhD *Tor.* (on leave) Asst. Prof.

Hanrahan, Rev. T. J., MA *Tor.*, MSL *Greg.*  
(on leave) Asst. Prof.

Conway, J. S., MA PhD *Camb.* Asst. Prof.

Bosher, J. F., Dipl'd'ÉtSup *Paris*,  
PhD *Lond.*, BA Asst. Prof.

Prang, Margaret, MA *Tor.*, BA *Manit.* Lectr.

Sheehan, Rev. M., MA *Tor.* Lectr.

Harnetty, P., AM PhD *Harv.*, BA Instr.

3 Reps. from Fac. of Educn.

#### Home Economics

Black, Charlotte S., BSc(HEc) *Manit.*,  
AM *Col.* Prof., Dir. of Sch.

Holder, Mary, BSc(HEc) *Mt.All.*,  
MS *Mich.State* Assoc. Prof.

MacFarlane, Margaret, BSc(HEc) *Alta.*,  
MS *Col.* Assoc. Prof.

Blair, Ruth, MS *Corn.*, BIIE  
Asst. Prof., Dir. of Food Services

Bracher, Winifred J., BSc(HEc) *McG.*,  
AM *Col.* Asst. Prof.

McEwen, W. Jean, BSc(HEc) *Alta.*,  
MS *Mich.State* Asst. Prof.

Robinson, Mrs. Orene J., BSc(HEc) *Alta.*  
Asst. Prof.

Smith, Elizabeth, BSc(HEc) *Acad.*,  
MSc *Manit.* Asst. Prof.

McEachran, Ailsa, BHE  
 Poolton, Martha, MS(HEc) *Wash.*  
 Flynn, Yvonne, BA MA *Tor.*  
 Clara, Rosina, BSc *W. Virginia*,  
 MA *Wash. State*  
 3 Hon. Lectrs.

### International Studies

Soward, F. H., BA *Tor.*, BLitt *Oxon.*,  
 FRSCan Prof., Dir.  
 Davies, G. O. B., MA *Camb.* Assoc. Prof.  
 Conway, J. S., MA PhD *Camb.* Asst. Prof.  
 Harnetty, P., AM PhD *Harv.*, BA Instr.

### Italian, see Romance Studies

### Law

Curtis, G. F., QC, LLB *Sask.*, BA BCL *Oxon.*,  
 LL.D. *Dal. & Sask.*, DCL *New Br.* Prof.  
 MacIntyre, M. M., BA *Mt. All.*, LL.M.  
 SJD *Harv.* Prof.  
 Bourne, C. B., BA *Tor.*, LLB *Camb.* Prof.  
 Carrothers, A. W. R., LL.M. *Harv.*, BA LLB Prof.  
 Todd, E. C. E., LL.M. *Manc.* Assoc. Prof.  
 Herbert, R. G., DFC, BA LLB Asst. Prof.  
 Feltham, I., BCL *Oxon.*, BA LLB Asst. Prof.  
 The President Lectr.  
 Beck, S. M., LL.M. *Yale*, BA LLB Lectr.  
 Branca, A., QC Lectr.  
 Brown, D. McK., BCom Lectr.  
 Beckett, K. M., BA Lectr.  
 Carlyle, W. M., BCom *Qu.*, LLB Lectr.  
 Carr, M. C., LLB *Lond.* Lectr.  
 Clark, D. M. Lectr.  
 Flackett, J. M., LL.B. *Birm. & Camb.* Lectr.  
 Dryer, V. L., QC, BA Lectr.  
 Ladner, L. J., QC, BA LLB *Tor.* Lectr.  
 Lysyk, K., LLB *Sask.* Lectr.  
 McFarlane, M. M., QC, BA Lectr.  
 McClean, A. J., LL.B. *Belf.* Lectr.  
 Schmitt, G. R., BA LL.B. *Sask.*, LL.M. *Harv.* Lectr.  
 Smith, W. K., BA *Manit.*, LLB Lectr.  
 Tuck, W. D. C., LLB Lectr.  
 Ruttan, Hon. Mr. Justice, MA BCL *Oxon.*,  
 BA Lectr.  
 Priestly, Diana M., MLL *Wash.*, BA LLB  
 Lectr., Law Librarian  
 Heuston, R. F. V., BA LL.B. *Dub.*,  
 MA *Oxon.* Visiting Prof.  
 Watts, A., AFC, ED, BCom  
 Lectr., Hon. Liaison Sec.

### Mathematics

James, R. D., PhD *Chic.*, MA, FRSCan  
 Prof., Hd. of Dept.  
 Gage, W. H., MA LL.D. Prof.  
 Jennings, S. A., MA PhD *Tor.* Prof.  
 Murdoch, D. C., PhD *Tor.*, MA Prof.  
 Derry, D., BA *Tor.*, DrPhil *Gött.*, FRSCan Prof.  
 Leimanis, E., MagMath *Riga*,  
 DrRerNat *Hamburg* Prof.  
 Moyls, B. N., PhD *Harv.*, MA Assoc. Prof.  
 Simons, W. H., PhD *Calif.*, MA Assoc. Prof.

Hull, T. E., MA PhD *Tor.* Assoc. Prof.  
 Nash, W., BA *Puget Sound*, MA PhD *Calif.* Instr.  
 Instr. Assoc. Prof.  
 Marcus, M. D., AB PhD *Calif.* Assoc. Prof.  
 Divinsky, N. J., BSc *Manit.*, MSc PhD *Chic.* Lectr.  
 Assoc. Prof.  
 Thurston, H. A., BA PhD *Camb.* Assoc. Prof.  
 Barclay, May L., MA Asst. Prof.  
 Benedicty, M., DrMaths LibDoc *Rome*  
 Asst. Prof.  
 Bullen, P. S., MSc *Natal*, PhD *Camb.* Asst. Prof.  
 Christian, R. R., BS MA PhD *Yale* Asst. Prof.  
 Sion, M., MS *N.Y.*, PhD *Calif.* Asst. Prof.  
 Restrepo, R. A., PhD *Cal. Tech.*,  
 BA *Lehigh* Asst. Prof.  
 Swanson, C. A., PhD *Cal. Tech.*, MA Asst. Prof.  
 Froese, Charlotte, PhD *Camb.*, MA Asst. Prof.  
 Minc, H., MA *Edin.* Asst. Prof.  
 Ree, R., BA *Seoul*, PhD Asst. Prof.  
 Macskasy, E., CandSc *Bud.* Asst. Prof.  
 Bressler, D. W., MA PhD *Calif.* Instr.  
 Cayford, A. H., MA *Calif.* Instr.  
 Katz, M. W., BA *McM.*, PhD *Ill.* Instr.  
 Lindsay, J. H., MA *Tor.* Instr.  
 Thompson, R. C., PhD *Cal. Tech.*, MA Instr.  
 Whittaker, J. V., PhD *Calif.* Instr.  
 Parnall, J. E. A., MA *Tor.*, BA BEd Lectr.  
 Struik, Ruth R., MA *Ill.*, PhD *N.Y.* Lectr.  
 Abramovitch, J., BSc *Alta.*, MA *Tor.*,  
 PhD *Calif.* Lectr.  
 Deuel, P. D., Jr., MA *Calif.* Lectr.  
 Stein, H. L., MA *Manit.*, PhD *Minn.*

Hon. Lectr

1 Post-Doctoral Res. Fellow

### Medicine, see below

### Mining and Metallurgy

Forward, F. A., BASc *Tor.*, FIM, FCIC  
 Prof., Hd. of Dept.  
 Crouch, L. G. R., BSc *Melb.*, MSc *Utah*  
 (Min. Engin.) Prof  
 Howard, H. M., BASc *Tor.*  
 (Mineral Dressing) Prof  
 Armstrong, W. M., BASc *Tor.* (Metall.) Prof.  
 Samis, C. S., MSc *Manit.*, PhD *Lond.*  
 (Metall.) Prof  
 Lund, J. A. H., PhD *Birm.*, BASc Asst. Prof.  
 Peters, E., MASc PhD Asst. Prof.  
 Teghtsoonian, E., BASc MA PhD *Tor.*  
 Asst. Prof.  
 Armstrong, Mrs. A. Margaret, MA *Tor.* Lectr.  
 Halpern, J., BSc PhD *McG.* Hon. Lectr.  
 3 Res. Assocs.

### Music

Marquis, G. W., MA *Whitman*, PhD *S. Calif*  
 Prof., Hd. of Dept.  
 Adaskin, H. Prof.  
 Slind, L. H., BSc *Sask.*, BMus *Montr. &*  
*Sask.*, EdD *Flor.* Assoc. Prof.  
 Gibbard, D. C., MA *Wash.* Assoc. Prof.  
 Clingman, A. E., MMus *Drake*, MA  
 EdB *Col.* Asst. Prof.

Davis, D. E., MMus *Northwestern*,  
DED *Oregon* Asst. Prof.  
Morris, R. B., MM *U.T.S.*,  
DrVocalPed *Indiana* Asst. Prof.  
Pitz, H. K., MM *Northwestern* Asst. Prof.  
Weisgarber, E., MM *Roch.* Asst. Prof.  
Adams, Mrs. Jean C. Instr.  
Huberman, Mrs. Barbara P. Instr.

**Nursing**

Mallory, H. Evelyn, BSc AM *Col.*  
Prof., Dir. of Sch.  
Morrison, Ruth, BS *Minn.*, AM *Col.* Assoc. Prof.  
Capelle, Pauline, AM *Chic.*, BA BAsc Asst. Prof.  
McCann, Elizabeth K., MSN *Wayne*, BA  
BAsc Asst. Prof.  
Duncan, Margaret W., MS *Chic.*, BA BAsc  
Asst. Prof.  
Campbell, Margaret A., MS *Western Reserve*,  
BA BAsc Instr.  
Cawston, Helen E. Instr.  
Cornwell, Dorothy M., BSN Instr.  
Spears, Margaret E., BSN Instr.  
Neylan, Mrs. Margaret, BN *McG.* Instr.  
Prowse, Margaret, BN *McG.* Instr.  
Baumgart, Alice, BSN Instr.  
Sugimoto, Tomiko, BSN Instr.  
Walton, Elizabeth A., BSN Instr.  
Munson, Joan D., MA *Col.*, BAsc  
Instr., Nursing Supervisor Child Health  
Programme  
8 Lectrs.†, Clin. Instr., 6 Field Supervisors

**Pharmacy**

Matthews, A. W., MSc *Alta.*, PhD *Flor.* Prof.  
Morrison, F. A., MBE, BSP *Sask.*,  
MSc *Maryland*  
(Pharm.) Assoc. Prof., Asst. to Dean  
Halliday, J. E., BSP *Sask.*, MS *Purdue*,  
PhD *Wash.*  
(Mat. Med. & Pharmacol.) Assoc. Prof.  
Groves, G. A., BSc(Pharm), MSc *Alta.*,  
PhD *Wis.* (Pharm.) Assoc. Prof.  
Brown, T. H., MS *Wash.*, BSP  
(Pharm. Chem.) Asst. Prof.  
Morr, J. G., MS *Mich.*, BSP Instr.  
Sanders, H. D., BSP (Pharm.) Sp. Lectr.  
8 Reps. from other Facs.

**Philosophy**

Savery, B., AB *Wash.*, AM PhD *Harv.*  
Prof., Hd. of Dept.  
Stroll, A., MA PhD *Calif.* Assoc. Prof.  
Brown, D. G., MA DPhil *Oxon.* Asst. Prof.  
Remnant, P., MA PhD *Camb.* Asst. Prof.  
Rowan, R. J., MA PhD *Calif.* Asst. Prof.  
Allen, E. B., MA *Tor.*, MSI, *Pontif Inst.*,  
*Tor.*, PhD Instr.  
Deul, P., MA *Calif.* Instr.

**Physical Education and Recreation**

Osborne, R. F., BA BED Prof., Dir. of Sch.  
Penney, Mrs. Marian, BA *Tor.*, AM *Texas*  
*State Coll. for Women* Assoc. Prof.

Whittle, H. D., BPHE *Tor.*, MS PhD *Oregon* Assoc. Prof.  
Pomfret, J., BA (Health & P.E.) *Wash.* Asst. Prof.  
Laithwaite, A. B., CD, DipPhysEd  
*Carnegie Phys. Trg. Coll.* Asst. Prof.  
Howell, M. L., MA EdD *Calif.* Asst. Prof.  
Mullins, P. M., MSc *Wash. State* Asst. Prof.  
Eckert, Helen, MEd *Alta.* Asst. Prof.  
Goodwin, Mrs. Helen Lectr.  
Vincent, G. Lectr.  
Burkhardt, P. Lectr.  
Smith, J. H. G., MF, PhD *Yale*, BSF Lectr.  
Gnup, F. T., BS(PE) *Manhattan Coll.* Instr.  
Hammarstrom, Louise, BPE Instr.  
Hindmarch, R. G., MS *Oregon*, BPE Instr.  
Morford, W. R., MPE Instr.  
Schrodt, Barbara, MS *Oregon*, BPE Instr.  
Tilley, Anne D., BA *McM.* Instr.  
Phillips, R. J. Instr., Athletic Dir.  
2 Reps. from Fac. of Educn.

**Physics**

Shrum, G. M., OBE, ED, MM, MA  
PhD *Tor.*, FRSCan Prof., Hd. of Dept.  
Crooker, A. M., BA *McM.*, MA PhD *Tor.* Prof.  
Mann, K. C., OBE, BA *Sask.*, MA PhD *Tor.* Prof.  
Volkoff, G. M., MBE, PhD *Calif.*, MA DSc,  
FRSCan Prof.  
Warren, J. B., DIC, BSc PhD *Lond.*, FIP,  
FRSCan Prof.  
Burgess, R. E., BSc *Lond.* Prof.  
Pickard, G. L., MBE, MA DPhil *Oxon.* Prof.  
Opechowski, W., MagFil *Warsaw* Prof.  
Jacobs, J. A., MA PhD *Lond.*, FRSCan  
(Geophys.) Prof.  
Kaempffer, F. A., DiplIng DrRerNat *Gött.* Prof.  
Daniels, J. M., MA DPhil *Oxon.*  
(on leave) Prof.  
Blüh, O., DrRerNat DPhys *Prague*, FIP  
Assoc. Prof.  
Stewart, R. W., MSc *Qu.*, PhD *Camb.*  
Assoc. Prof.  
Brown, J. B., DPhil *Oxon.*, BA Assoc. Prof.  
Russell, R. D., MA PhD *Tor.* Assoc. Prof.  
Griffiths, G. M., BAsc *Tor.*, MA PhD  
Assoc. Prof.  
Bloom, M., MSc *McG.*, PhD *Ill.* Assoc. Prof.  
Allan, D., BA *Tor.*, PhD *Tor. & Camb.*  
Asst. Prof.  
Barnard, A. J., MSc *Rhodes*, PhD *Glas.*  
Asst. Prof.  
Burling, R. W., MSc *N.Z.*, PhD *Lond.*  
Asst. Prof.  
Curzon, F. L., DIC Asst. Prof.  
Livesey, D. L., BA PhD *Camb.* Asst. Prof.  
Barrie, R., BSc PhD *Glas.* Asst. Prof.  
Erdman, K. L., BA MSc *Alta.*, PhD Asst. Prof.  
Nodwell, R., BSc *Sask.*, MAsc PhD Asst. Prof.  
Prescott, J. R., BSc *Adel.*, PhD *Melb.*,  
DPhil *Oxon.* Asst. Prof.  
Savage, J. C., BS *Arizona*, PhD *Cal. Tech.*  
Asst. Prof.  
Rastall, P., BSc PhD *Manc.* Asst. Prof.

White, B. L., BSc <i>N.Z.</i> , DIC, PhD <i>Lond.</i>	Asst. Prof.	MacKay, D. C. G., MA <i>Qu.</i> , PhD <i>Stan.</i>	Assoc. Prof.
Grindlay, J., BSc <i>Glas.</i> , DPhil <i>Oxon.</i>	Asst. Prof.	Kenny, D., PhD <i>Wash.</i> , MA	Assoc. Prof.
Taylor, K. N. R., MSc <i>Birm.</i>	Instr.	Fraser, D. C., BSc <i>Glas.</i> , MA PhD <i>Edin.</i> , MSc <i>Camb.</i>	Asst. Prof.
Scheltgen, E., BA	Instr.	Potashin, Reva, MA PhD <i>Tor.</i>	Asst. Prof.
Barton, N., MA	Instr.	Sampson, D. G., MA PhD <i>Tor.</i>	Asst. Prof.
Taylor, K. N. R., BSc PhD <i>Birm.</i>	Instr.	Hayward, Mrs. F. Margaret, MA <i>Western</i> <i>Reserve</i> , BA	(on leave) Instr.
Critchlow, P. R., BA <i>Oxon.</i>	Instr.	Read, W. H., BA <i>B'Out.</i> , MA <i>Tor.</i> , PhD <i>Mich.</i>	Instr.
Howard, R., BSc PhD <i>Nott.</i>	Instr.	Cox, A. E., MA <i>Tor.</i> , BA	Lectr.
McLean, W. L., MSc <i>N.Z.</i>	Instr.	Shirran, A. F., MA	Lectr.
Viet, J. J., BSc PhD <i>Lond.</i> , MSc <i>Birm.</i>	Instr.	Bryenton, G. A. M., MA <i>Tor.</i> , BA	Lectr.
deSobrine, I., MSc <i>M.I.T.</i>	Instr.	Nuttall, J. C., BA BEd <i>Belf.</i>	Lectr.
Giles, J. C., BSc <i>Sheff.</i> , PhD <i>Exc.</i>	Instr.	Ryan, J. E. B., MA PhD <i>Tor.</i> , BA	Lectr.
Sheinin, S. S., BSc MA PhD <i>Tor.</i>	Lectr.		
Batho, H. F., BA <i>McM.</i> , SM PhD <i>Chic</i>	Hon. Lectr.		

George, S., BSc <i>Trav.</i> , MSc <i>Saug.</i>	Lectr.
Clark, R. J., BA <i>McG.</i> , PhD <i>Camb.</i>	†Lectr.
Stacey, J. S., BSc <i>Durh.</i> , MSc	†Lectr.
Christoffel, D. A., MSc <i>N.Z.</i> , PhD <i>Nott.</i>	†Lectr.
3 Demrs., 2 Res. Assocs., 2 Post-Doctoral Fellows	

### Plant Science

Brink, V. C., PhD <i>Wis.</i> , MSA(Agron)	Prof., Chairman of Div.
Harris, G. H., MS <i>Oregon State</i> , PhD <i>Calif.</i> , BSA, FCIC	(Hort.) Prof.
Hornby, C. A., PhD <i>Corn.</i> , MSA	(Hort.) Assoc. Prof.
Renney, A. J., MS <i>Calif.</i> , PhD <i>Oregon State</i> , BSA	(Agron.) Assoc. Prof.
Neill, J. W., MC, BSA <i>Tor.</i> , PhD <i>Oregon</i> <i>State</i>	(Hort.) Assoc. Prof., Superv. of Landscaping
MacLean, N. A., BS PhD <i>Wash.State</i>	Asst. Prof.
Ormsrod, D., PhD <i>Calif.</i> , BSA	Asst. Prof.
Teir, J. B., MSA	Hon. Lectr.
Fitzpatrick, R. E., BSA <i>McG.</i> , PhD <i>Tor.</i>	Hon. Lectr.
Burns, W. T., BSA MSc <i>Sask.</i>	Hon. Lectr.
Clarke, M. F., PhD <i>Penn.</i> , MSA <i>Sask.</i>	Hon. Lectr.
Strachan, C. C., PhD <i>Oregon</i> , BSA	Hon. Lectr.
Willis, T. G., MSA	Hon. Lectr.
Woods, J. J., MSA	Hon. Lectr.
Savage, R., MSA <i>Sask.</i>	Hon. Lectr.

**Political Science**, see Econ. and Pol. Sci.

### Poultry Science

Biely, J., MS <i>KansasStateAgric.</i> , MSA	Prof., Chairman of Dept.
Lancaster, J. E., BVSc	Asst. Prof.
Bray, D. F., BSA <i>Tor.</i> , MS PhD <i>Purdue</i>	Instr.
March, Mrs. Beryl E., BA	Instr.
Ellis, H. W., BSA	Sp. Asst.
Tarr, H. L. A., PhD <i>McG. &amp; Camb.</i> , MSA	Hon. Lectr.

### Psychology

Chant, S. N. F., OBE, MA <i>Tor.</i>	Prof., Hd. of Dept.
Signori, E. BA <i>Alta.</i> , MA PhD <i>Tor.</i>	Prof.
Belyea, E. S. W., MA <i>Tor.</i>	Assoc. Prof.

### Romance Studies

Andison, J. G., BA <i>Manit.</i> , AM PhD <i>Col.</i>	(French) Prof., Hd. of Dept.
Dallas, Dorothy, DU <i>Paris</i> , MA	(French) Prof.
Gregg, R. J., BA <i>Belf.</i>	(French) Assoc. Prof.
Jeffels, R. R., BA BEd <i>Alta.</i> , MA <i>Camb.</i>	(French) Assoc. Prof.
Tougas, G. R., BA <i>Alta.</i> , MA <i>McG.</i> , PhD <i>Stan.</i>	(French) Assoc. Prof.
Livermore, H. V., BA <i>Camb.</i>	(Spanish) Assoc. Prof.
Bongie, L. L., DU <i>Paris</i> , BA	(French) Asst. Prof.
Bursill-Hall, G. L., MA <i>Camb.</i> , PhD <i>Lond.</i>	(French) Asst. Prof.
Kobbervig, K. I., PhD <i>Wash.</i>	(Spanish & Italian) Asst. Prof.
McDonald, J. A., MA	(Spanish) Asst. Prof.
Robert, P. R., MA PhD <i>Calif.</i> , BA	(French) Asst. Prof.
Weinberg, K., MA <i>Trin.Coll.Hartford</i> , PhD <i>Yale</i> (on leave)	(French) Asst. Prof.
Giese, Rachel, MA PhD <i>Wis.</i>	(Italian & French) Asst. Prof.
Bud, E. A., DU <i>Paris</i> , BA	(French) Instr.
Brearley, Katherine, DU <i>Paris</i> , MA	(French) Instr.
Fleury, F. d'A., LèsL <i>Paris</i> , MA <i>Camb.</i>	(French) Instr.
Niederauer, D. J., MA <i>Calif.</i>	(French) Instr.
Primeau, Marguerite A., MA <i>Alta.</i>	(French) Instr.

Treil, C., BA	(French) Instr.
Bartoli, T., BA <i>W.Ont.</i> , MA	(Spanish) Instr.
Bird, Mrs. Genevieve, LèsL <i>Paris</i> , MA <i>Brist.</i>	(French) Lectr.
Davison, Mrs. Emilia	(Spanish) Lectr.
Bresky, D., LLD <i>Prague</i> , MA <i>Wash.</i>	(French) Lectr.
Ciccone, Stephanie, DChem <i>Florence</i> , MSc	Lectr.
Coope, Mrs. René, LèsL <i>Paris</i> , MA	(French) Lectr.
Luethy, I. C. E., MA <i>Calif.</i>	(French) Lectr.

### Slavonic Studies

St. Clair-Sobell, J. O., MA <i>Melb.</i> , PhD <i>Graz</i>	Prof., Hd. of Dept.
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Ronimois, H. E., MSc(Econ) *Tartu*,  
 PhD *Lond.* Assoc. Prof.  
 Wainman, A. W., MA *Oxon.* Assoc. Prof.  
 Byrner, C., AB *Stan.*, PhD *Prague* Assoc. Prof.  
 Pech, S. Z., MA *Alta.*, PhD *Colorado* Asst. Prof.  
 Ignatieff, L. P., BA *McG.*, MA *Mich.* Asst. Prof.  
 Rose, W. J., BA *Manit.*, MA *Oxon.*, PhD  
*Cracow*, LLD, FRHistS, FRSCan  
 Hon. Lectr., Prof. Emer.  
 Halpert-Scanderbeg, T., StaatlDipl *Leip.*  
 Sp. Lectr.  
 Calsen, Irina M., MA Instr.  
 Clancy, G. A., BA *Wash.* Instr.  
 Dane, M. M., BA *Wash.*, MA *Harv.* Instr.  
 Babashoff, V. I. †Lectr.  
 Rakalski, Z., LèsL *Paris*, PhD *Camb.* Lectr.

### Social Work

Dixon, W. G., AM *Chic.*, BA Prof., Dir. of Sch.  
 Marsh, L. C., BSc(Econ) *Lond.*, MA  
 PhD *McG.* Prof., Dir. of Res.  
 McCrae, Mrs. Helen, BA *Tor.*, MSW Prof.  
 Gaudette, Muriel A., MSS *Smith*, BA Asst. Prof.  
 Furness, Anne, BA *McG.*, MSW Asst. Prof.  
 Macrae, A., MA *Lond.* Asst. Prof.  
 McCann, C. W., BA *San Diego*,  
 DSW *Calif.* Asst. Prof.  
 Telych, Mrs. Mary, BA *Manc.*, MSW  
 Asst. Prof.  
 Tornataro, J. V., BA BSW *Tor.* Asst. Prof.  
 Wheeler, M., BA *Lond.*,  
 CertSocSc&Admin *L.S.E.*, MSW Asst. Prof.  
 Foster, D., BA BSW Instr.  
 McCubbin, Frances A., BA MSW Instr.  
 Pepper, G. W., BA *Alta.*, MSW Lectr.  
 Bradley, Eleanor J., CertSW *Smith*  
 Instr., Soc. Work Supervisor, Child  
 Health Programme  
 3 Lectrs.†, 1 Hon. Lectr., 2 Field-Work Instrs.†

### Soil Science

Rowles, C. A., MSc *Sask.*, PhD *Minn.*  
 Prof., Chairman of Dept.  
 Clark, J. S., PhD *Corn.*, MSA Asst. Prof.  
 Easterhake, J., MSA *Tor.*, PhD *Rutgers* Instr.

### Spanish, see Romance Studies

### Theatre

Somerset, Dorothy, AB *Radcliffe*  
 Assoc. Prof., Hd. of Dept.  
 Soule, D. E., BA *Yale*, MA *Wis.*,  
 PhD *Stan.* Asst. Prof.  
 Young, N. Lectr., Tech. Dir.

### Zoology

Cowan, I. McT., PhD *Calif.*, BA, FRSCan  
 Prof., Hd. of Dept.  
 Hoar, W. S., BA *New Br.*, MA *W.Ont.*,  
 PhD *Boston*, FRSCan  
 (Zool. & Fisheries) Prof.  
 Chitty, D. H., BA *Tor.*, DPhil *Oxon.* Prof.

Graham, K., MSc *McG.*, PhD *Tor.*, BA  
 (Forest Entomol.) Prof.  
 Adams, J. R., MSc PhD *McG.* Prof.  
 Larkin, P. A., MA *Sask.*, DPhil *Oxon.*  
 Prof., Dir., Inst. of Fisheries  
 Ford, P., BSc PhD *Lond.*, FLS Assoc. Prof.  
 Udvardy, M. D. F., PhD *Debrecen* Assoc. Prof.  
 Dehnel, P. A., MA PhD *Calif.* Assoc. Prof.  
 Finnegan, C. V., BA *Bates*, MS PhD *Notre*  
*Dame* Assoc. Prof.  
 Band, R. N., BA MS *San Francisco*,  
 PhD *Calif.* Assoc. Prof.  
 Bary, B. McK., MSc PhD *N.Z.*  
 (Biolog. Oceanog.) Assoc. Prof.  
 Wilimovsky, N. J., PhD *Mich.* Assoc. Prof.  
 Briggs, J. C., BS *Oregon State*, MA  
 PhD *Stan.* Asst. Prof.  
 Hatter, J., BA PhD *Wash.State* Asst. Prof.  
 Bendell, J. F., BA *Tor.*, PhD Asst. Prof.  
 Lindsey, C. C., BA *Tor.*, PhD *Camb.*,  
 MA Asst. Prof., Curator of Fishes  
 Holmes, W. N., MSc PhD *Liv.* Asst. Prof.  
 Scudder, G. G. E., BSc *Wales*,  
 DPhil *Oxon.* Asst. Prof.  
 Jackson, Mary, BA *Tor.*, MA Instr.  
 Redlich, Aline, MA Instr.  
 Mahon, Elizabeth F., BSc *Dal.*, MA *Calif.* Lectr.  
 Maxwell, B., BA *Alta.*, PhD *N.Z.*, MA Lectr.  
 Vickers, Mary, BA *Tor.* Lectr.  
 Tarr, H. L. A., PhD *McG. & Camb.* MSA  
 Hon. Lectr.  
 Bruce, Muriel E., BSc *Edin.* Lectr.  
 Lundh, Mrs. Kathleen, BSc *Lond.* Lectr.  
 Northcote, T. G., MA Lectr.  
 Stevenson, G. Beth, MA Lectr.  
 Tucker, T., BA Lectr.  
 Spencer, G. J., BSA *Tor.*, MS *Ill.*  
 Prof. Emer., Sp. Lectr.  
 Clemens, W. A., MA *Tor.*, PhD *Corn.*,  
 FRSCan Prof. Emer., Sp. Lectr.  
 2 Post-Doctoral Fellows, 2 Res. Assocs.

## COMMERCE AND BUSINESS ADMINISTRATION

[\* = also member of staff of diploma division]

MacPhee, E. D., MM, BEd MA *Edin.*,  
 LLD *Alta.* \*Prof.  
 Gourlay, C. C., MCom *Tor.*, BCom  
 Prof., Asst. Dean

### Accounting

Beedle, A., BCom *Lond.*  
 \*Assoc. Prof., Chairman of Div.  
 Mitchell, C. L., BCom *Tor.* \*Assoc. Prof.  
 Burke, B. E., MA *Wash.*, BCom \*Assoc. Prof.  
 Blazouske, D., BA BCom *Alta.*  
 (on leave) \*Asst. Prof.  
 Robb, J. F., BS *Oregon*, MBA *Wash.* Asst. Prof.  
 Habiak, H., BSc(Econ) *Lond.* Instr.  
 Blaine, R. E., BCom Instr.  
 Heaver, T. D., BA *Oxon.* Instr.  
 Bell, H. E., BCom Hon. Lectr.  
 Brooker, G. H., BCom Hon. Lectr.  
 Butterworth, E. A., BCom Hon. Lectr.

Chambers, G.  
 Conlin, R., BA BAcc *Sask.*  
 Conway, G. R., BCom  
 de la Giroday, E. P., BCom  
 Ellis, D. W., BA  
 Fahy, B.  
 Ferguson, J. B.  
 Field, F., FCA  
 Fields, D. B., MCom *Tor.*, BCom  
 Goforth, J. D., BCom *McG.*  
 Hutton, J. M., BCom  
 Kelvin, A., BCom  
 Pew, C. G., BCom  
 Wallace, W. P., BCom  
 Walpole, R. A., BA MCom

### Finance

Wong, L. J. G., MBA *Calif.*, BCom  
 \*Prof., Chairman of Div.  
 White, P. H., BSc MSc(EstMan) *Lond.* \*Prof.  
 Gourlay, C. C., MCom *Tor.*, BCom \*Prof.  
 Clark, R. M., AM PhD *Harv.*, BA BCom  
 (Econ.) Assoc. Prof.  
 Loffmark, R. R., BA *Tor.*, MBA *Penn.*  
 Assoc. Prof.  
 Lusztig, P., MBA *W. Ont.*, BCom Instr.

### Marketing

Warren, J. B., BA *Wash.*, MBA *Calif.*  
 Assoc. Prof., Actg. Chairman of Div.  
 Oberg, S. M., MBA *Wash.*, BCom \*Assoc. Prof.  
 Perkett, W. O., BS *Oregon*, MBA *Wash.*  
 Asst. Prof.

Chapman, G. J., BS BA *Miss.*, DSC  
 DBA *Indiana* Hon. Lectr.  
 Sommers, M., MBA *Northwestern*, BCom Lectr.

### Policy and Administration

MacPhee, E. D., MM, BEd MA *Edn.*,  
 LLD *Alta.* \*Prof., Chairman of Div.  
 Carrothers, A. W. R., LL.M *Harv.*, BA LLB  
 (Comm. Law) Assoc. Prof.  
 Loffmark, R. R., BA *Tor.*, MBA *Penn.*  
 (Comm. Law) Assoc. Prof.

### Honorary Lecturers

MacIntyre, M. M., BA *Mt. All.*, LL.M  
 SJD *Harv.* (Law)  
 Bourne, C. B., BA *Tor.*, LLB *Camb.* (Law)  
 Matuszewski, T. I., MSc(Econ) *Lond.* (Econ.)  
 Mahoney, R. A., BA *Manit.*, MSc *Purdue*

### Production

Wilkinson, H. C., MBA *Wash.*, BCom  
 Assoc. Prof., Chairman of Div.  
 Hall, N. A., MBA *S. Calif.*, BCom Asst. Prof.  
 Aird, D. C., BSc *N. Carolina*, BCom Asst. Prof.  
 Crosse, J. A., MA *Camb.*, MSc *Purdue*  
 Asst. Prof.

### Teacher Education (Commercial)

Heywood, R. H., MA  
 \*Assoc. Prof., Chairman of Div.

Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.

### Transportation and Utilities

Hughes, W., BSc(Econ) *Lond.*, MBA *Indiana*  
 Asst. Prof., Chairman of Div.  
 5 Lectrs. from other Facs.

### MEDICINE

McCreary, J. F., MD *Tor.*, FRCPCan Prof.  
 Campbell, C. G., MD CM MS *McG.*,  
 FRCPCan  
 Asst. Prof., Asst. Dean (Academic)  
 Mather, J. M., MD DPH *Tor.*  
 Prof., Asst. Dean (Admin.)

### Anatomy

Friedman, S. M., BA MD CM MSc  
 PhD *McG.* Prof., Hd. of Dept.  
 Constantinides, P., MD *Vienna*, PhD *Montr.*  
 Prof.  
 Friedman, Mrs. Constance L., MSc  
 PhD *McG.* Res. Assoc. Prof.  
 Scherrer, H. F., MD *Graz* Assoc. Prof.  
 Miller, S., MSc MD CM *McG.*  
 (Radio-Anat.) †Clin. Asst. Prof.  
 Sreter, F. A., MD *Bud.*, DAg *Hungary*  
 Asst. Prof.  
 Hincke, J. A., MD Asst. Prof.  
 Erickson, L. B., BA *Roch.*, MA *Oxon.* Instr.  
 Johnstone, F. R. C., MB ChB *Edin.*,  
 FRCSEd †Lectr.  
 1 Teaching Fellow

### Biochemistry

Darrach, M., PhD *Tor.*, MA Prof., Hd. of Dept.  
 Beer, C. T., DPhil *Oxon.*, FRIC Assoc. Prof.  
 Polglase, W. J., PhD *Ohio State*, MA Assoc. Prof.  
 Zbarsky, S. H., BA *Sask.*, MA PhD *Tor.*  
 Assoc. Prof.  
 Jellinck, P. H., BA *Camb.*, MSc *Lond.* Asst. Prof.  
 Paterson, A. R. P., MA PhD Asst. Prof.  
 Tener, G. M., MS PhD *Wis.*, BA Asst. Prof.  
 Richards, J. F., MA *Qu.*, PhD *W. Ont.* Instr.  
 Biely, J., MS *Kansas State Agric.*, MSA  
 Hon. Lectr.  
 Campbell, J. J. R., PhD *Corn.*, BSA Hon. Lectr.  
 Eagles, Blythe, MA PhD *Tor.*, BA, FRCS,  
 FCIC Hon. Lectr.  
 Goranson, E. S., PhD *Tor.*, MA Hon. Lectr.  
 2 Fellows

### Medicine

Kerr, R. B., OBE, MD MA *Tor.*, FRCPCan,  
 FRCP, FACP Prof., Hd. of Dept.  
 Evelyn, K. A., BSc MD CM *McG.*,  
 FRCPCan, FACP  
 Prof., Dir., G. F. Strong Lab. for Med.  
 Res.  
 Whitelaw, D. M., MD CM *McG.*, BA,  
 FRCPCan Prof.  
 Campbell, C. G., MD CM MSc *McG.*,  
 FRCPCan Asst. Prof.  
 McIntosh, H. W., MB *Camb.*, MD CM  
 MSc *McG.*, FRCPCan Asst. Prof.

Solvonuk, P. F., MA *Sask.*, PhD *Alta.*  
 Res. Asst. Prof., Biochemist, G. F.  
 Strong Lab. for Med. Res.

†Clinical Associate Professors

Bagnall, A. W., MD *Tor.*, BA, FRCPCan  
 Battl, M. M., BA *New Br.*, BA BM BCh *Oxon.*,  
 FRCP, FRCPCan  
 Boyd, R. W., BSc *Alta.*, MD CM *McG.* (Radiol.)  
 Gould, C. E. G., MD *S.Calif.*, BA (Neurol.)  
 Kincaide, G. F., MD CM *McG.*  
 Munroe, D. S., BSc *Sask.*, MD *Manit.*,  
 FRCPCan, FACP  
 Williams, D. H., MD BSc *Manit.*, MSc *Minn.*  
 (Dermatol.)

†Clinical Assistant Professors

McNair, A. Y., MC, MB *Tor.*  
 Palmer, R. A., MD CM *McG.*, BA, FRCPCan,  
 FACP, FRCPEd  
 Thomas, J. P. W., MD CM *Dal.*  
 Walker, J. E., MB *Tor.*  
 Ford, D. K., BA MD *Camb.*, FRCPCan Instr.

Honorary Lecturer

Triapp, Ethlyn, BA MD CM *McG.*, DSc  
 (Therapeutic Radiol.)

†Clinical Instructors

Auckland, N. L. D., BA *Sask.*, MD *Manit.*  
 (Neurol.)  
 Beck, R. E., MD CM *Qu.*, FRCPCan  
 Bogoch, A., MD BSc(Med) *Tor.*, DSc *Penn.*,  
 FRCPCan  
 Boxall, E. A., MD CM *Qu.*, FRCPCan  
 Boyce, K. C., MD CM *Qu.*, BA  
 Caldwell, J. W. G., MD *Alta.*, FACP  
 Christopherson, E. F., BSc *Sask.*, MD *Manit.*,  
 FACP, FRCPCan  
 Covernton, C. C., MD CM *McG.*, BA  
 Donovan, E. G., MB ChB *Liv.* (Radiol.)  
 Fahrni, B. M., MD *Manit.*, FRCPCan  
 Golton, J. P., MD CM *McG.*, FRCPCan  
 Hasselback, R. C., BA *Sask.*, MD CM *McG.*  
 Henry, E. W., MB BCh MD *Belf.*, FRCPCan  
 Hertzman, V. O., MD *Tor.*, FRCPCan  
 Hurlburt, F. W. B., BSc *Sask.*, MD *Tor.*,  
 FRCPCan  
 Johnson, A. M., MD *W.Ont.*, FRCPCan  
 Johnston, Margaret M., MD CM *McG.*, BA  
 (Dermatol.)  
 Jones, D. P., MD ChB *Liv.* (Neurol.)  
 Kanev, B., MD *Manit.* (Dermatol.)  
 Kidd, Honor M., MD CM *McG.*, BA  
 (Clin. Microscopy)  
 Letoux, J. A., BSc *Sask.*, MD *Manit.*, DPH *Tor.*,  
 FRCPCan  
 Mathusen, A. K., MD CM *McG.*, BA FRCPCan,  
 FACCP  
 Mitchell, J. C., MD *Lond.* (Dermatol.)  
 Morse, P. W., BA *Sask.*, BA BM BCh *Oxon.*  
 Morton, J. W., MD CM *McG.*, BA  
 Moscovitch, B. B., MD *Alta.*  
 Moscovitch, J. C., MD CM *McG.*, FACP  
 Mowat, D., MD *Manit.*, FRCPCan  
 Murphy, H. O., MD CM *Qu.*  
 MacLean, C. A., MD CM *McG.*, BA, FRCPCan

McLean, T. K., MD *Alta.*, FRCPCan, FACP  
 Paige, B., MB BS *Syd.*  
 Parnell, J. L., MB ChB *Edin.*, BA, FRCPCan,  
 FACP

Reid, J. A. G., MD *Tor.*, FRCPCan  
 Rennie, C. S., MD *Manit.*  
 Robinson, C. E. G., MD CM *Qu.*, FRCPCan  
 Scott, H., BSc *Alta.*, MD CM *McG.*  
 Shallard, B. T., MB ChM *Syd.*, MD *Melb.*  
 Shaw, M. H., MD CM *Qu.*, FRCPCan  
 Shiers, J. A., BA *Camb.*, MB ChB *Manc.*  
 (Radiol.)

Simpson, W. W., MA PhD MD *Tor.*, BA  
 Slade, H. C., MD CM *Dal.*, FRCPCan  
 Stalker, H. S., MD *Manit.*  
 Stansfield, H., MSc MD *Alta.*  
 Stewart, W. D., MD *Wash.*, FRCPCan  
 Traynor, J. A., BA *Sask.*, MD *Tor.*, FRCPCan  
 Walsh, G. C., MD CM MSc *McG.*, BA,  
 FRCPCan, FACP  
 Walters, M. B., MD *Manit.*, FRCPCan  
 Wood, W. S., MD CM *McG.*, BA (Dermatol.)  
 Zeldowicz, L., MD *Warsaw* (Neurol.)  
 1 Demr.

Neurological Research

Gibson, W. C., MSc MD CM *McG.*,  
 DPhil *Oxon.*, BA, FACP  
 Kinsmen Prof., Chairman of Dept.  
 McGeer, P. L., BA MD Asst. Prof.  
 Wada, J., MD PhD *Hokkaido* Asst. Prof.  
 McGeer, Edith G., BA *Swarthmore*,  
 PhD *Virginia* Res. Assoc.  
 Paul, Rachel, MSc *W.Ont.*, BA Res. Assoc.  
 Mewburn, R. H., MSc *Alta.*, MD *McG.*  
 Res. Assoc.  
 Miller, J. R., MA *Tor.*, PhD *McG.* Res. Assoc.  
 2 Res. Fellows

Obstetrics and Gynæcology

Bryans, F. E., MD BSc *Tor.*, FRCSCan  
 Asst. Prof., Actg. Hd. of Dept.  
 Boyd, J. R., MD CM *McG.*, BA, FRCSCan  
 †Asst. Prof.  
 Johnston, F., MD *Alta.*, FACS  
 †Clin. Asst. Prof.  
 Bie, W. F., BSc *Sask.*, MD CM *McG.*  
 Clin. Asst. Prof.  
 Turko, M., MD *Tor.* Asst. Prof.  
 Claman, A. D., MD *Qu.*, FRCSCan Clin. Instr.  
 Collison, D. B., MD CM *McG.* Clin. Instr.  
 Costello, J. B., BA *Seattle*, MD CM *McG.*  
 Clin. Instr.  
 Dickinson, J. J., MD *Tor.*, FRCSCan  
 Clin. Instr.  
 Herstein, A., MD *Manit.* Clin. Instr.  
 Huang Chang, Madeline, MD *YaleMed.*  
 Coll.China Clin. Instr.  
 McDonagh, J. E., MD *Manit.* Clin. Instr.  
 MacEwan, W. R., MD *Alta.* Clin. Instr.  
 Millar, J. W., MD *Manit.* Clin. Instr.  
 Nickerson, K. G., BSc *Alta.*, MD  
 CM *McG.*, FRCSCan Clin. Instr.  
 Ross, J. E., MD *Qu.*, BA Clin. Instr.



Smith, G. G., MD *Tor.*, FRCSCan Clin. Instr.  
 Wadman, H. Clin. Instr.  
 Tysoe, F. W., BSc MD *Alta.* Clin. Instr.  
 Boyes, D. A., MD CM *Qu.* Clin. Instr.  
 1 Teaching Fellow

**Pædiatrics**

Graham, B. D., AB *Alabama*, MD *Fanderbilt* Prof., Hd. of Dept.  
 McCreary, J. F., MD *Tor.*, FRCPCan Prof.  
 Young, M. D., MA MB BChir *Camb.*, FRCPCan Assoc. Prof.  
 Robinson, G. C. F., MD CM *Qu.*, FRCPCan Asst. Prof.  
 Dunn, H. G., MB BChir *Camb.*, MA Asst. Prof.  
 Kendall, D., MA *Camb.*, PhD *Manc.* Asst. Prof.  
 Teasdale, Joyce M., MB ChB *Leeds* Asst. Prof.  
 Wilson, R. A., MD CM *McG.*, BA, FRCPCan †Clin. Assoc. Prof.  
 Hardyment, A. F., MD *Manit.* †Clin. Assoc. Prof.

Baker, H., MD *Tor.* †Clin. Asst. Prof.  
 James, E. S., MD *Tor.* †Clin. Asst. Prof.  
 Whitelaw, J. W., MD CM *McG.*, BA †Clin. Asst. Prof.  
 Segal, S., BSc *McG.*, MD CM *Qu.*, MA †Clin. Asst. Prof.  
 Gibson, W. M., BA *New Br.* MD CM *McG.* Instr.  
 Thurgar, Ailsa, BA MB BS *Lond.* Instr.  
 Vince, D. J., MD *Tor.* Instr.  
 Campbell, K. A., MD CM *McG.* Clin. Instr.  
 Gayman, G. R., BA MD *Tor.* Clin. Instr.  
 Krivel, H., MD *Alta.* Clin. Instr.  
 Mashal, J., BA MD CM *Berut* Clin. Instr.  
 Mullinger, Margaret, MD *Tor.* Clin. Instr.  
 Mirhady, F., MD *Vienna* Clin. Instr.  
 Padwick, P. H., MB BS *Lond.* Clin. Instr.  
 Piters, J., MD *Tor.*, BA Clin. Instr.  
 Read, J. H., BSc MD CM *McG.* Clin. Instr.  
 Shuman, B., MD *Tor.* Clin. Instr.  
 Stockton, W. H. S., MD *Tor.* Clin. Instr.  
 Treffry, C. J., MD *Tor.* Clin. Instr.  
 MacLennan, Jean M., MD *Edin.*, DPH *Glas.* Clin. Instr.

Hingston, J., MD *N.U.I.* Clin. Instr.  
 Dean, J., MB BChir *Camb.* Clin. Instr.  
 4 Demrs., 3 Res. Fellows

**Pathology**

Taylor, H. E., MD CM *Dal.*, FRCPCan, FRCPEd Prof., Hd. of Dept.  
 Chase, W., BSc MD CM *McG.* Asst. Prof.  
 Stuart, J. R., MD *PhD McG.* Asst. Prof.  
 Fidler, H. K., MD BSc *Manit.* †Clin. Prof.  
 Eden, J., MB BS *Durh.* †Clin. Assoc. Prof.  
 Leach, W., MD *Manit.*, MSc *McG.* †Clin. Asst. Prof.  
 Pitts, H. H., MD CM *McG.* †Clin. Asst. Prof.  
 Vassar, P. S., MB BS *Lond.* Clin. Asst. Prof.  
 Askanazy-Dolman, Mrs. Clarisse, MD *Tor.*, BA Clin. Instr.  
 Chisholm, H. A., MD CM *Dal.* Clin. Instr.  
 Condy, C. G., MD CM *McG.*, BA Clin. Instr.

English, E., PhD *W.Ont.*, MA Clin. Instr.  
 Phinney, J. I., BA BSc *Acad.*, MSc *Dal.* Clin. Instr.  
 Scott, J. F., BSc MD *Alta.* Clin. Instr.  
 Shepherd, W. E., BSc MD *Manit.* Clin. Instr.  
 Spitzer, R., AB *Corn.*, PhD *Cal.Tech.*, MD *Manit.* Clin. Instr.  
 Sturdy, J. H., MD *Alta.* Clin. Instr.  
 Sturrock, F. L., MB ChB *Edin.* Clin. Instr.  
 Trites, A. E. W., MD CM *McG.*, BA Clin. Instr.  
 Culling, C. F. A. Clin. Instr.  
 1 Museum Curator

**Pharmacology**

Foulks, J. G., BA *Rice*, PhD *Johns H.*, MD *Col.* Prof., Hd. of Dept.  
 Daniel, E. E., MA *Johns H.*, PhD *Utah* Assoc. Prof.  
 Perry, Florence, MSc *Dal.*, PhD *Tor.* Asst. Prof.  
 Dower, G. E., MB BS *Lond.* Asst. Prof.  
 Drummond, G. I., MSc *Alta.*, PhD *Wis.* Asst. Prof.  
 1 Fellow

**Physiology**

Copp, D. H., BA MD *Tor.*, PhD *Calif.* Prof., Hd. of Dept.  
 Black, E. C., MBE, BA *McM.*, PhD *Penn.*, MA, FRSCan Prof.  
 McLennan, H., MSc PhD *McG.* Assoc. Prof.  
 Cramer, C. F., MS *New Mexico*, PhD *Calif.* Asst. Prof.  
 1 Fellow

**Preventive Medicine**

Mather, J. M., MD DPH *Tor.* Prof., Hd. of Dept.  
 Elliot, G. R. F., MD CM *Qu.*, DPH *Tor.* †Clin. Prof.  
 Read, J. H., BSc MD CM *McG.*, DPH *Tor.* Asst. Prof.  
 Nelson, A. J., MD *Glas.*, DPH †Clin. Assoc. Prof.  
 Murray, S. S., MD DPH *Tor.* †Clin. Assoc. Prof.  
 Amyot, G. F., MB DPH *Tor.* (Admin.) Hon. Lect.  
 Wilson, W. A., BA MD *Tor.*, FRCPCan (Ethics) Hon. Lect.

Adams, J. R., MSc PhD *McG.* (Parasitol.) Lect.  
 Spencer, G. J., MS *Ill.*, BSA (Entomol.) Lect.  
 King, D. M., MD *Tor.* Clin. Inst.  
 Larsen, A. A., MD *Alta.*, DPH *Tor.*, MPH *Minn.*, BA Clin. Inst.  
 Waldie, A. C., MD *Alta.*, BA Clin. Inst.  
 Willits, Reba E., MD DPH *Tor.* Clin. Inst.  
 3 Res. Fellows

**Psychiatry**

Tyhurst, J. S., BSc MD CM *McG.* Prof., Hd. of Dept.  
 Margetts, E. L., MD CM *McG.*, BA Asst. Prof.  
 Richman, A., MD *Manit.* Asst. Prof.

Watterson, D. J., MD *Camb.*,  
DPM *Lond.* Asst. Prof.  
Davidson, G. A., MD *Manit.*, FRCPCan,  
FACP †Clin. Prof.  
Gre, A. M., MD CM *Qu.* †Clin. Prof.  
Zaldowicz, H., MD *Rome* Clin. Assoc. Prof.  
Warren, A. J., MD *Manit.*, DPM *Lond.*  
†Clin. Asst. Prof.  
Thomas, J. C., MA MB *Tor.* Clin. Asst. Prof.  
Davidson, A. E., MD *Alta.*, BA Clin. Asst. Prof.  
Hutton, G. H., MD DPH *Tor.* Clin. Asst. Prof.  
Gundry, C. H., MD *Tor.* Hon. Lectr.  
Menzies, A. M., MD CM *Qu.* Hon. Lectr.  
Wilson, J. R., MD *Qu.* Hon. Lectr.  
Halliday, R., MB BCh BAO *Belf.*,  
DPM *Manc.* Clin. Instr.  
Hutt, N. B., BA *Sask.*, MD CM *Qu.* Clin. Instr.  
Kaplan, S., MD *Tor.* Clin. Instr.  
Landenfeld, Elda, MD *Vienna* Clin. Instr.  
McNair, F. E., MD CM *McG.*, BA Clin. Instr.  
Powles, W. E., BA MD CM *McG.* Clin. Instr.  
Richardson, N. L., MD CM *McG.* Clin. Instr.  
Stephenson, G. H., MD *Tor.* Clin. Instr.  
Edwards, F. J., MD CM *McG.* Clin. Instr.  
Fister, W. M., MD, FRCPCan Clin. Instr.  
Kenning, I. S., BSc MD CM *McG.* Clin. Instr.  
Ketwood, L. A., BA *Camb.*, MD  
DPM *Dub.* Clin. Instr.  
Leyland, E. E., BS MD *Lond.* Clin. Instr.  
Tischler, I., MD *Munich* Clin. Instr.  
Walsh, J., MB ChB BAO *N.U.I.* Clin. Instr.  
Whitman, R. I., BSc *Sask.*, MD CM *McG.*,  
DPM *Lond.* Clin. Instr.  
2 Deurs.

### Surgery

McKenzie, A. D., MD *Alta.*, FRCSCan,  
FACS Prof., Hd. of Dept.  
Johnstone, F. R. C., MB *Edin.*, MSc,  
FRCSEd Assoc. Prof., Executive Officer  
Christensen, R. M., BA MD, FRCSCan Instr.  
Chung, W. B., MD *McG.*, FRCSCan Instr.  
Sargeant, T. R., MD *Tor.*, BA, FRCS,  
FRCSCan, FACS †Clin. Prof.

### †Clinical Associate Professors

Balfour, J. A., MD *Alta.*, FRCSCan  
Gourlay, R. H., MD CM *McG.*, FRCSCan  
Graves, H. B., BA MD CM *McG.*  
Patterson, F. P., MD CM *McG.*, FRCSCan,  
FACS  
Turnbull, F. A., MD *Tor.*, BA

### †Clinical Assistant Professors

Ashmore, P. G., MD *Tor.*, FRCSCan  
Boucher, H. H., MD CM *McG.*, MSc *Iowa*  
Chang, J., MD *Tor.*, FRCPCan  
Colbeck, J. C., MB BS *Lond.*  
Cowan, R. J., MD *Tor.*, FRCSCan  
Dodds, W. A., MD *Tor.*  
Elliot, J. A., MD *Tor.*, FRCSEd  
Evans, A. M., MD CM *McG.*, DMRE *Camb.*  
Harrison, W. E., MD *Manit.*, FACS  
Huggard, L. H. A. R., MD *Tor.*, FACS  
Lehmann, E. C. H., MD *Tor.*, FRCSCan

Morton, K. S., MD *McG.*, BA MSc, FRCSCan  
McConkey, A. S., MD *Alta.*  
Macartney, H. H., MB ChB BAO *Belf.*,  
FRCPCan  
Robertson, R., MD *Tor.*, FRCSCan, FACS  
Simpson, D., MB ChB *N.Z.*, FRCS, FRCSEd  
Sutherland, W. H., MD CM *McG.*, FRCSCan  
Tanton, B. W., MD *McG.*  
Williams, I. R., MD *McG.*, FRCSEd,  
FRCSCan  
Wilson, R., MD CM *McG.*, FRCSCan, FRCS,  
FACS

### †Clinical Instructors

Alexander, E. H., MD *Manit.*  
Alexander, J. D. F., MD CM *McG.*, FRCSCan  
Allen, P., MD *Tor.*, FRCSCan  
Allen, C. S., MD ChM *Manit.*, MS *Minn.*,  
FRCSCan, FACS  
Ankenman, G. J., MD CM *Qu.*, FRCSCan  
Arbuckle, J. W., Jr., MD CM *McG.*, FRCSCan  
Austin, W. E., MD *Manit.*, FRCSEd, FRCSCan,  
FACS  
Badger, G. A., MD *Alta.*  
Blair, N. J., BSc MD *Manit.*  
Cambon, K. G., BA MD CM *McG.*  
Carroll, J. J., BA *Bishop's*, MD CM *McG.*  
Chambers, H. I., BA *Sask.*, MD *Tor.*  
Charlton, W. J., MD *Manit.*, FRCSCan  
Cluff, J. W., BSc *Sask.*, MD *Manit.*, FRCSCan  
Cohen, A., MD *Manit.*  
Cook, C. E., MD *Alta.*, FRCSCan  
Cooper, H. G., BA MD *Alta.*  
Crawford, G. M., MD *W.Ont.*  
Davies, Lois, MD *Tor.*  
Ellison, Lucille, MD *Manit.*  
Fahrui, W. H., MD *Manit.*, FRCSEd, FRCSCan  
Farish, J. R., MD *McG.*, BA, FRCSCan  
Fleming, K. O., MD CM *McG.*, BA  
Fratkin, I. B., BSc MD *Alta.*, FRCSCan  
Frost, J. W., MD CM *McG.*, BA, FRCSEd,  
FRCSCan  
Fulton, J. B., BA MD *Alta.*  
Ganshorn, J. A., MD *Manit.*, MS *Minn.*  
Gillespie, H. S., MD *Tor.*, FRCSCan  
Goodman, G. B.  
Grauer, F. W., MD CM *McG.*, BSA, FRCSEd,  
FRCSCan, FACS  
Hall, E. R., BSc MD *Alta.*  
Hall, W. M., MD *Alta.*  
Hudson, P. W., MD *Alta.*  
Hugill, Jean T., BSc MD *Alta.*  
Inglis, A. M., MD *Manit.*, FRCSCan  
Irving, J. A., MD *Qu.*  
Jackson, P. P., BS *E.Central State*,  
MD *Oklahoma*  
Jenkins, I. C., BA MD CM *McG.*, FRCSCan  
Johnston, G. C., BA MD *Alta.*, FRCSCan  
Kester, H. A., BA MD *W.Ont.*  
Large, G. C., MD *Tor.*, FACS  
Lehmann, P. O., MD *Manit.*  
Lockhart, H. B., BSc *New Br.*, MD *Tor.*,  
FRCSCan  
Macartney, H. H., MB ChB BAO *Belf.*,  
FRCPCan

MacDougall, J. A., MD *Manit.*, FRCS,  
FRSCan  
McFetridge, S. A., MD *Manit.*, FRCSEd  
McKechnie, R. E., MD CM *McG.*  
McKinlay, W. D., MD CM *McG.*, BA  
Matheson, D., MB ChB *Aberd.*, FFARCS  
Minnes, J. F., MD *McG.*  
Morton, W. A., MB ChB *Edin.*, FRCSEd  
Musgrove, J. E., MD *Manit.*, FRCSCan  
Nixon, J. R., MD *W.Ont.*  
Osler, T. R., MD CM *McG.*, FRCSCan  
Oulton, J. L., BSc MD *McG.*  
Paine, R. J., MD CM *McG.*, BA  
Patterson, W. J., MD *Ott.*  
Percherson, P. B., MD CM *Qu.*, FRCPCan  
Perrett, T. S., BA MD *Tor.*, FRCSCan  
Poole, J. C., MD *Manit.*  
Preston, F. C., MD BSc *Tor.*, FRCSCan  
Randall, H. S., BA *New Br.*, MD CM *McG.*  
Rees-Davies, P., FRCS, FRCSCan, FACS  
Robins, R. E., MD *W.Ont.*, FRCSCan  
Sands, C. A., BA *Sask.*, MD *Tor.*  
Saxton, G. D., MD *Manit.*, FRCSEd  
Schultz, M. H., MD *Qu.*  
Simpson, R. E., MD *Qu.*, MA  
Sleath, G. E., MD *Alta.*, BA  
Sparkes, J. W., MD *Tor.*  
Smith, E. L., MD CM BSc BA  
Smith, H. A., BA *Camb.*, MB BCh *Belf.*,  
FRCSEd, FRCSCan  
Starr, D. E., MD *Tor.*, FACS  
Stewart, A. J., MD *McG.*, BA  
Taylor, W. R., BSc *New Br.*, MD CM *McG.*  
Thompson, W. J., BSc *Sask.*, MD *Manit.*,  
FRCSCan  
Thomson, F. B., BA MD *Tor.*, FRCSCan  
Trapp, W. G., MD *McG.*, FRCSCan  
Walcott, D. B., BSc MD *McG.*, FRCSCan

Webb, E., MD *W.Ont.*  
Wilson, J. W., MD CM *McG.*, FRCSCan  
Wilson, W. M. G., BA *McM.*, MD *Tor.*  
Wood, L. G., MD *Alta.*, FRCSCan  
Woodsworth, R. S., MD *Manit.*  
Word, E. F., BS *Oklahoma Baptist*,  
MD *Oklahoma*, FRCSCan, FACS  
2 Teaching Fellows

### UNIVERSITY EXTENSION

Friesen, J. K., DFC, BA *Manit.*, AM  
EdB *Col.* Dir.  
Selman, G. R., BA Asst. Dir.  
Thomas, A. M., BA *Tor.*, AM *Col.*  
(Educn.) Instr., Sp. Asst. in Extension  
Smith, Marjorie V., BA *Sask.*, MSW  
(Family Life & Group Development) Superv.  
Thomson, Mrs. Mary, BA *Alta.*, MSW  
Asst. in Family Life & Group Devel.  
Curtis, B., BA BEd  
(Short Courses & Conferences) Superv.  
Buttedahl, K., BCom  
(Study-Discussion Programme) Superv.  
Campbell, L. A., BSF (Forestry Serv.) Superv.  
Haar, J., BA (Business Courses) Superv.  
Lindenberger, Mrs. Alice  
(Evg. Class Programme) Superv.  
Roberts, J. G., BA (Audio-Visual) Superv.  
Risk, S., MA *Corn.* Field Rep. in Drama  
Pearce, R. (Arts & Crafts) Superv.  
Drew, G. A., BSA (Agric.) Superv.  
MacFarlane, Mrs. Mary, BA MSW  
(Lecture Programmes & Speakers) Sec.  
Stewart, Edith, BA *Manit.*, BS in LS *Wash.*  
Extension Librarian  
Stewart, Jessie Film Librarian  
Kaye, R. D. Recordings Librarian

### ADMINISTRATIVE AND OTHER STAFF

Admin. Asst. to President: G. O. B. Davies,  
MA *Camb.* Asst. to President and Dir. of Univ.  
Development Fund: A. Roberts. Assts. to Dean  
of Arts: I. McT. Cowan, PhD *Calif.*, BA,  
FRSCan; M. F. McGregor, PhD *Cmc.*, MA;  
Asst. Registrars: Myrtle L. Kievel, BA; J. H.  
Wallis, BA. Sec. to President: Margaret  
Frederickson, BA *Tor.* Dir. of Summer Session:  
K. F. Argue, BA *Alta.*, MA *Oxon.*, EdD *Col.*  
Assoc. Librarian: S. Rothstein, BLS *Calif.*,  
PhD *Ill.*, MA; Asst. Librarian: Anne Smith,  
BS in LS *Wash.*, MA *Mich.*, BA. Don, Acadia  
Camp: Barbara Schrodt, BPE; Don, Mary  
Bollert Hall: Frances Fraser, BA *McM.*; Don,  
Isabel MacInnes Hall: Frances M. Munro,  
BA; Don, Anne Wesbrook Hall: Shirley A.  
McKelvey, BSc. Housing Administrator: A. R.  
Baird. Purchasing Agent: H. A. LeMarquand.  
Assoc. Bursar: W. White. Accountant: M. H.  
Craven. Supt. of Bldgs. and Grounds: T.  
Hughes, BEng *McG.* Univ. Book Store and Post  
Office: J. A. Hunter (Manager and Postmaster).  
Dir., Food Services: Ruth Blair, MS *Corn.*,

BIIE; Asst. Dir., Food Services: .....  
Dietitians in Charge: Fort Camp, Mrs. Verna  
Heathfield, BSc(HEC) *Manit.*; Acadia Camp,  
Mrs. Stephanie Barnes, BIIE; Cafeteria & Bus  
Stop, Mrs. Anne Woodley, BSc(HEC) *McG.*;  
Doris Schuh, BSc(HEC) *Alta.* Hon. Curator of  
Herbarium: J. W. Eastham, BSc *Edin.* Curator:  
T. M. C. Taylor, MS *Wis.*, PhD *Tor.*, BA.

INFORMATION OFFICE. Information Officer:  
J. A. Banham, BA. Asst. Information Officer:  
Laree S. Heide.

UNIV. HEALTH SERVICE. Dir. of Health Service  
and Health Service Hosp.: A. K. Young, MB  
ChB *Glas.* †Physician: I. L. Shand, MD *Manit.*  
†Staff Physicians: J. K. A. Clokie, MD *Manit.*;  
A. C. Waldie, MD *Alta.*; C. Brumwell, MD.  
Consultant Psychiatrist: D. J. Watterson, MD  
DPM *Camb.* Consultant Radiologists: S. Miller,  
MD CM MSc DRT *McG.*; H. M. Spiro, MD  
CM BSc *Dal.* Nursing Supervisor: Muriel  
Upshall, BASc. Public Health Nurses: Mrs.

Madeleine Noble, BSN ; Jane Vango ; Margaret Cameron, BSN ; Betty Barrett.

COUNSELLING, PLACEMENT, STAFF PERSONNEL, VETERANS' SERVICES. Dir. of Student and Per-

sonnel Services : J. F. McLean, DSO, CD, BA. Asst. Dir. & Counsellor : A. F. Shirran, MA. Counsellors : A. Cox, MA *Tor.*, BA ; J. E. B. Ryan, MA PhD *Tor.*, BA.

## AFFILIATED COLLEGES

ANGLICAN THEOLOGICAL COLLEGE OF BRITISH COLUMBIA, Vancouver, B.C. (tel. : CA4-4511). Affiliated in 1922. Provides courses leading to its own degrees and dipl. in theol. (BD, Hon. DD, STh, LTh) and in religious knowledge options for credit towards univ. BA. Actg. Principal—Rt. Rev. R. S. Dean, MTh DD.

ST. ANDREW'S HALL (Presbyterian Church in Canada). Dean—J. H. Ross, MA PhD *Tor.*, BD Knox (*Tor.*). At present residential only.

ST. MARK'S COLLEGE (Roman Catholic), Vancouver, B.C. (tel. : CA4-9811). Principal—Very Rev. H. Carr, BA *Tor.*, LL.D. Offers courses in religious knowledge options for credit towards BA of the univ.

UNION COLLEGE OF BRITISH COLUMBIA (United Church of Canada), Vancouver, B.C. (tel. :

CA4-3266). Affiliated in 1922. Provides courses leading to its own degrees and dipl. in theol. (BD, BTh, Hon. DD, testamur) and in religious knowledge options for credit towards univ. BA. Principal—Rev. W. S. Taylor, MA *Emmanuel*, PhD BD *Tor.*

VICTORIA COLLEGE, Victoria, B.C. (tel. : Beacon 4931). Affiliated to univ. in 1920, for 1st and 2nd yrs. in arts, incl. 1st yr. comm., and 2 yrs. of educn. degree programme. W. H. Hickman, DUParis, MA, Principal, Prof. of French ; R. T. D. Wallace, MA, Vice-Principal & Dir. of Evng. Div., Prof. of Maths. ; H. C. Gilliland, MA, Dir., Teacher Educn. ; H. E. Farquhar, MA, Exec. Asst. to Principal & Dir. Summer Session ; Dorothy M. Cruickshank, BA, Registrar. 4 Profs., 20 Assoc. Profs., 25 Asst. Profs., 10 Instrs., 6 Sp. Lectrs.

## GENERAL INFORMATION

The Univ. of British Columbia was incorporated by an act of 1908. The univ. site consists of 1000 acres on the headland of Point Grey, 300 feet above the sea. Here a group of bldgs., constructed at a cost of nearly \$2,000,000, was opened in 1925.

The univ. is an integral part of the public educn. system of the province, and its function is to complete the work begun in the public and high schs. It is the policy of the univ. to promote educn. in general, and in particular, to serve its constituency through 3 channels—teaching, res. and extension work. It furnishes instructn. in the various branches of a liberal educn., and in those technical depts. which are most directly related to the life and industries of the province. The people of the province are informed of the results of sp. work by the staff of the univ. through the dept. of univ. extension. B.C. has a population of 1,544,000 and Greater Vancouver of 612,900. \*

CONSTITUTION. The bd. of governors consists of the chancellor, elected by convocation, president and 9 persons—3 elected by the senate and 6 apptd. by the lieut.-govr. in council. The senate consists of the chancellor, pres. (as chairman), deans and 2 profs. of each fac., 3 nominees of the lieut.-govr. in council, 2 profs. of Victoria Coll. elected by the fac., principals of normal schools, one member elected by high sch. principals and assts., one by each affiliated coll. in the province, 15 by convocation, one by the B.C. teachers' federation, 3 members apptd., by the board of management of alumni assoc.

INCOME (1958-59). Total income, \$11,873,509 (govt. of Canada grant, 27.9 per cent. ; provincial grant, 30.8 per cent. ; student fees, 22.9 per cent. ; gifts, grants and bequests, 8.6 per cent. ; other sources, 3.8 per cent.).

LIBRARY. 400,000 vols. ; regularly receives about 4000 periodicals. Strong in serial publicns. of scholarly and scientific socs.

LABORATORIES available for all courses. The forest products lab. (opened 1958) is a unit of the F.P. labs. div. of the for. branch, dept. of northern affairs & natural resources, govt. of Canada. HERBARIUM : 46,000 sheets flowering plants and ferns. BOTANICAL GARDENS, arboretum and econ. section, 5 acres.

TEACHING HOSPITALS. Vancouver General H., St. Paul's H., Shaughnessy Military H.

DEANS. See p. 144.

UNIVERSITY RESEARCH FOREST, about 7 mls. long and 2½ mls. wide, N. of the town of Haney, was granted to the univ. by the prov. govt. in March 1949. The CAMPUS FOREST consists of a narrow belt S. and W. of the univ. and acts as a demonstration and field study area for for., biol., bot. and zool.

SOPRON UNIVERSITY. After fleeing from Hungary at the end of 1956, the students and staff of Sopron Univ. fac. of forestry came to Canada at the invitation of the Canadian govt. supported by the Univ. of Br. Col. and the Powell River Co. In Sept. 1957 the Sopron for. fac.

became pt. of the univ. by joining the univ. fac. of for. as the 'Sopron Division'. See also p. 149.

**MUSEUMS.** (1) Anthropol. museum (in library) — Burnett collection of South Seas and other ethnol. specimens; Raley collection of Indian artifacts; Buttiner collection of Indian baskets; Michell Pierce collection of Eskimo clothing and utensils; numerous other valuable collections. (2) Geol. and geog. museum in the for. and geol. bldg. (3) Zool. museum in biol. scis. bldg. (4) Botanical collections and herbarium.

**THE BRITISH COLUMBIA RESEARCH COUNCIL** has its HQ. and labs. on the campus. It works in close co-operation with the sci. depts. of the univ. and its programme includes fundamental and appl. res. Staff of 70, of which 45 are professional scientists and engineers.

**CONNAUGHT MEDICAL RESEARCH LABORATORIES (WESTERN DIVISION).** In 1935, under co-operative arrangement with provincial dept. of health of B.C. and the Connaught med. res. labs. of the Univ. of Toronto, the latter instn. establd. a western division on the campus. Now situated in the Wesbrook bldg. Res. projects in microbiol. as applied to pub. health and prev. med. are pursued here in conjunction with students and staff of dept. of bacteriol. and immunol. in collaboration with division of labs. of provincial dept. of health.

**ART CENTRE.** Incl. among activities of the fine arts cttee., under joint supervision of the visual arts cttee. and the handicrafts cttee., the art centre includes a workshop and an art gallery. The workshop gives courses in ceramics, painting, sculpture, weaving and other appl. arts, which are open to students, staff and extra-mural registrants but do not carry academic credit. The art gallery maintains a continuous display of loan exhibitions.

**INSTITUTE OF OCEANOGRAPHY** is supported in part by the defence res. bd. and by the jt. cttee. on oceanog., the latter body representing the interest of the Royal Canadian Navy, the national res. council, the fisheries res. bd. and the hydrographic service. The inst. represents the co-operative effort of the depts. of biol. and bot., geol., chem., phys. and zool. to train grad. students in one or more of these branches in the principles and techniques of oceanog. res. The inst. is further charged with the responsibility for fundamental res. in oceanog.

**AN INSTITUTE OF FISHERIES**, within the fac. of grad. studies, gives at the grad. level broad and advanced instrcn. in various fields relating to the best use and management of the fisheries' resources.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** BA and BSc general, BA and BSc single or combined honors., 4 yrs. (from jr. matric.); BA and BSc double honors., 5 yrs. (from jr. matric.); BA honors. may be taken in practically all depts. in fac. of arts & scis. except music and

fine arts; BSc honors. may be taken in bacteriol., biochem., biol., bot., chem., geol., appl. maths., phys., physiol., zool. BHE, BPE, 4 yrs. (3 from sr. matric.). BCom, BASc in appl. sci., BSF (forestry), 5 yrs. (4 from 1st yr. in arts or sr. matric.). BArch, 5 yrs. (from sr. matric. or 1st yr. arts). BSA general, 4 yrs. (from jr. matric.); BSA honors., 5 yrs. (from jr. matric.). LLB, 3 yrs. (from 3rd yr. in arts and sci.). BSP, BSN, 4 yrs. (from sr. matric. or 1st yr. arts). MD, 4 yrs. (from 3rd yr. arts or BA). BED, 4 or 5 yrs. (from jr. matric.); also 1 yr. postgrad.

**HIGHER DEGREES.** MA, MASc, MSA, MF, MSc, MBA, MSW, MEd, MPE, MArch, MSP, 1-2 yrs. postgrad. BSW, 1 yr. postgrad. work.

MA may be taken in anthropol., bacteriol. & immunol., biol., bot., classics, econ., educn., Engl., genetics, geog., hist., internat. studies, langs. (mod. & classical), maths., pharmacol., philos., phys., planning, pol. sci., psychol., slavonic studies, sociol., zool. MSc may be taken in agric. microbiol., anat., bacteriol. & immunol., biochem., biol., bot., chem., geol., metall., neurol., phys., physiol., planning, zool.

PhD (min. of 3 yrs.' postgrad. work offered in anat., bacteriol. & immunol., biochem., biol. & bot., chem., chem. engin., dairying & soil sci., electr. engin., Engl., for. (in co-operation with biol., bot. and zool.), genetics, geol., maths., metall., pharmacol., philos., phys., physiol., psychol., romance studies, soc. scis., zool.).

The LL.D, DSc and DLitt are conferred only as honorary degrees.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Occupnl. agric. (1 yr.); pub. health nursing (1 yr.); chn. teaching & supervision in schs. of nursing (1 yr.).

**SUMMER SESSION.** In July and Aug., courses for credit towards a degree are offered; max. of 6 units only permitted. Non-members of the univ. (non-matriculants) may be admitted to the summer session only as auditors. They are not permitted to write the course exams., nor receive univ. credit for the courses audited.

**SUMMER EXTENSION COURSES.** Non-credit courses in dramatics, weaving, painting, pottery, music, writing, photography, arts and crafts.

**UNIVERSITY EXTENSION.** Since 1936 the dept. of univ. extension has carried on a comprehensive and varied programme of adult educn. It is responsible for the admin. of the rural section of the dominion-provincial trg. programme, sponsored jly. by the Canada dept. of labour and the prov. dept. of agric. The present activities of the dept. include extension lectures at various centres throughout the prov.; evg. classes; discussion groups; dramatics; agric.; short courses carrying no acad. credit, during both winter and summer sessions; visual instrcn. by means of (i) lantern and film slide service, (ii) moving picture service; radio broadcasts; library assistance; art and music courses (made possible by Carnegie art teaching set and Carnegie music set); educn.

programme for British Columbia fishermen; correspondence courses and extra-session courses for academic credit; home econ.; arts and crafts; parent educn.; family life educn. and gp. devel. Several correspondence and extra-session courses carrying credit towards a degree are offered.

**FEES.** Arts & scis., agric., educn., nursing: \$346 per session. Appl. sci. (incl. archit. and engin.), comm. & bus. admin., for., law, pharmacy: \$396 per session. Med.: \$551 per session. Occupl. agric.: \$256 per session. Partial courses: \$22 per unit. Grad. study: \$346 per session.

**'OPEN' SCHOLARSHIPS AND FELLOWSHIPS FOR GRADUATES.** Standard Oil Co. of British Columbia Ltd. fellowship, \$950; Powell River Co. Ltd. scholp., \$700; British Columbia Electric Rly. Co. Ltd. res. scholp., \$500; Cariboo Gold Quartz Mining Co. Ltd. scholp., \$250; Cominco fellowship, \$1000; Leon Koerner grad. scholp., \$500; Canadian Pulp & Paper, W. Div., fellowships (2), \$500 each; Shell Oil fellowship for res., \$1200; Canadian Industries Ltd. fellowship for res., \$2000; Edith Ashton memorial scholp., \$250; B.C. Telephone scholps. (4), to total of \$2500; British Columbia Electric Railway Co. fellowship in agric., \$800; Burroughs Wellcome fellowship in anesthesiol. and appl. pharmacol., \$1000; grad scholps. in slavonic studies, \$1600; Poulenc fellowship in appl. physiol., \$500; United Fishermen and Allied Workers' Union scholp. in fisheries, \$200; California Standard Co. Fellowship; \$1000. Queen Elizabeth scholps. (5), to total of \$5000; Northern Electric fellowship, \$1200; Van Dusen fellowship in for., \$1500; Warner Lambert res. fellowship in pharm., \$2100; Vancouver Sun grad. scholp. for journalism, \$2000. Students may also contact individual depts. about the possibility of res. assistantships.

**ALUMNI ASSOCIATION** is composed of hon., active and assoc. members. Governing body composed of a bd. of management and executive cttee. elected at the annual meeting. The exec. dir. is employed by the assocn. on a full-time basis. The alumni annual giving programme, establd. in 1948, is now part of the U.B.C. Develop. Fund which in 1957-58 conducted a public campaign for capital funds realizing more than \$8,000,000. This develop. fund is a continuing operation in fund raising.

**UNIVERSITY SERVICE TRAINING CORPS.** (a) Canadian officers' trg. corps; (b) univ. naval trg. div.; (c) R.C.A.F. (reserve) univ. flight. All

service trg. on the campus is under the jurisdiction of a jt. services univ. trg. cttee.

**STUDENT ATHLETIC FACILITIES.** 5 playing fields; 2 gymnasias; swimming pool.

**STUDENT ORGANIZATIONS.** The Alma Mater soc. with its governing executive, the students' council, controls all student activities and is responsible for student discipline. Every student automatically becomes a member of the Alma Mater soc. when he enrolls in the univ. Members are elected every spring to hold office through the next yr.

**RESIDENCE.** Bd. and lodging in vicinity of the univ. from \$60 upwards p.m. Acadia Camp, accomm. for about 315 men and 46 women. Terms: Dble. rm., \$425, single rm., \$453. Fort Camp, accomm. for 385 men. Terms as for Acadia Camp. Women's Residences: Mary Bollert Hall; Isabel MacInnes Hall; Anne Wesbrook Hall. Accomm. for 52 women in each hall. Fees: \$510 per session for single rooms, \$475 per session for dble. rooms.

**STUDENT HEALTH SERVICE.** The univ. health service comprises an up-to-date and well-staffed out-patient dept. together with a 26-bed hosp. The health service is not a teaching dept., being maintained solely for the benefit of students who may require med. care and advice.

In addn. to providing med. and nursing care and investigation of any student health problems, the health service carries out the compulsory routine med. exams. required by the univ. Each student on admission is given complete physical exam., including tuberculin skin test and chest X-ray. Before participation in athletics all women students are annually medically examined and men students are checked as to physical fitness for participation in strenuous athletics. A scheme for the control of communicable diseases and the following up of defects is in operation and first-aid is rendered by a full-time public health nurse. The med. officer is available at specified hours for consultation.

**PUBLICATIONS.** *Requirements for Matric.*; *Calendar* (April); summer session *Announcement of Courses*; lecture series; *President's Annual Report*. (No charge for any of these publications.) *History of the Univ. of British Columbia, 1908-1958*, by Prof. H. T. Logan; obtainable only at univ. bookstore, price \$5.

**UNIVERSITY BOOKSTORE.**

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** Chem. extension; biol. scis. bldg. extension for zool.; men's residences (Robson House, Kootenay House, Okanagan House); fac. club.

**NEW CHAIR.** Electr. engin.

**RETIREMENTS.** M. Dorothy Mawdsley (dean of

women); Prof. F. C. Boyes (educn.); C. B. Wood (registrar).

**RESIGNATIONS.** M. A. Cowie (German); D. Corbett (pol. sci.); J. J. Deutsch (econ. & pol. sci.); W. Dietiker (electr. engin.); F. M. C. Goodspeed (maths.); S. Greenhorn (pathol.);

V. Griffiths (mining & metall.); G. Bate (phys.); Judge S. J. Remnant (law); J. Willis (law); H. R. Robertson (surg.); S. Sim (pharm.); Shirley Sparling (biol. & bot.); Marjorie Leeming (asst. to dean of women); Zella Manning (educn.); J. B. Gunn (phys.).

**DEATHS.** A. M. Agnew (prof. of obstet. & gynæcol.); A. A. MacMillan (clin. asst. prof. of anæsthetics); J. R. Neilson (clin. assoc. prof. of surg.); E. Morrow (emer. prof. of comm.); Margaret Maynard (asst. prof. of educn.); G. A. Gillies (emer. prof. of mineral dressing); A. E. Trites (clin. assoc. prof. of obstet. & gynæcol.); F. J. Hebb (dep. dir., univ. health service); H. A. Henderson (clin. instr. of obstet. & gynæcol.).

**HONORARY DEGREES.** *DSc*—Sir Hugh 'Taylor, former dean, Trin. grad. sch. *LLD*—A. D. Duhaime, pres., Car.; C. E. Odegaard, pres., Wash.; D. Cameron, dir., Bantl sch. of fine arts, Alta.; D. G. Creighton, hd., dept. of hist., Tor.; A. S. P. Woodhouse, hd., dept. of Engl., Univ. Coll., Tor.; A. Brunois, jurist; A. C. DesBrisay, chief justice of B.C.; R. L. Malone, pres., American Bar Assocn.; W. S. Owen, pres., Canadian Bar Assocn.; Baron H. L. Parker, lord chief justice of England; J. E. Robbins, editor-in-chief, *Encyclopaedia Canadana*.

## Statistics

### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	7436	193
Women . . .	2864	149
Total . . .	10,300	342

**Distribution by Faculties.** *Agric.*, 175; *appl. sci.*, 1372; *arts*, 5101; *comm. & bus. admin.*, 659; *educn.*, 1826; *for.*, 148; *Sopron div.*, 43; *grad. studies* (incl. soc. work), 718; *law*, 247; *med.*, 212; *pharm.*, 141. Total: 10,642.

*Included in the figures above are :—*

Postgraduate students (incl. soc. work), 718.

New admissions, 3491.

Students from other countries. (Countries from which largest numbers came: U.K., 349; W. Indies Fed., 203; Fed. German Rep., 120; U.S.A., 117; Hong Kong & China, 110; Netherlands, 73; India, 57).

Extra-sessional and correspondence (not incl. above), 2196 (1019 m., 1177 w.).

**DEGREES AWARDED (1958-59).** *Agric.*: BSA, 31; BSA (hons.), 1. *Appl. sci.*: BASc, 212; BArch, 10; BSN, 45. *Arts*: BA, 278; BA (hons.), 43; BHE, 34; BPE, 24; BSc, 71; BSc (hons.), 26; BSW, 36; MSW, 23. *Comm. & bus. admin.*: BCom, 102. *Educn.*: BEd, 282. *For.*: BSF, 25; Sopron div., 63. *Grad. studies*: MA, 35; MSc, 22; MASc, 22; MSA, 8; MF, 4; MEd, 9; PhD, 11; *Law*: LLB, 73. *Med.*: MD, 44. *Pharm.*: BSP, 34.

**DIPLOMAS AWARDED (1958-59).** Pub. health nursing, 43; clin. supervision & teaching, 17; occupnl. agric., 2.

# CARLETON UNIVERSITY\*

Founded 1942. Incorporated as Ottawa Association for the Advancement of Learning, 1943 ;  
as Carleton College, 1952 ; as Carleton University, 1957

Postal Address : Ottawa 1, Ontario, Canada

Cables and Telegrams : Carleton University, Ottawa

Telephone : Central 5-5161

CHANCELLOR—C. J. MACKENZIE, CMG, MC, BE *Dal.*, MCE *Harv.*, DEng *Tor.*, Hon. LLD *Dal.*,  
*W.Ont.*, *Qu.*, *Algiers & Sask.*, Hon. DSc *McG.*, *Laval*, *Br.Col.*, *Prin.*, *N.S.T.C.*, *McM.*, *New Br.*,  
*Montr. & Manit.*, Hon. ScD *Camb.*, Hon. DCL *Bishop's*, FRS, FRSCan, MEIC

PRESIDENT—A. D. DUNTON, DSc *Laval*, LLD *Sask.*, *Qu.* & *Br.Col.*

DEAN, FACULTY OF ARTS AND SCIENCE—J. A. GIBSON, BA *Br.Col.*, MA BLitt DPhil *Oxon.* (Hist.)

DIRECTOR, SCHOOL OF PUBLIC ADMINISTRATION—R. O. MACFARLANE, MA *Qu.*, PhD *Harv.*

DIRECTOR, SCHOOL OF GRADUATE STUDIES, ASSOCIATE DEAN OF THE FACULTY OF ARTS AND SCIENCE—  
M. S. MACPHAIL, BA *Qu.*, MA *McG.*, DPhil *Oxon.*, FRSCan

DIRECTOR, DIVISION OF SCIENCE—H. H. J. NESBITT, BA *Qu.*, MA PhD *Tor.*, DSc *Ley.*, FLS

DIRECTOR, SCHOOL OF ENGINEERING—J. RUPTASH, BSc *Alta.*, MSc PhD *Tor.*

REGISTRAR, AND RESEARCH ASSOCIATE PROFESSOR OF EDUCATION—J. A. B. MCLEISH, MA *McG.*, PhD *Corn.*

BURSAR—F. J. TURNER, BCom MA *Tor.*, FCIS

LIBRARIAN—HILDA G. GIFFORD, BA BLS *McG.*

## TEACHING STAFF

[† = Part-Time]

### Accounting

McDougall, W. J., BA *W.Ont.*, FCA Prof.  
Brennan, C. N., BCom *Br.Col.*,  
MS *Col.*, CA †Sessl. Lectr.  
Sterns, A. A., LicCom *St.Gallen*,  
DrRerPol *Berne*, CA †Sessl. Lectr.  
Larose, A. B., BCom, CA †Sessl. Lectr.  
Bunning, N. R., BCom *McG.*, CA †Sessl. Lectr.

Holmes, J. M., BSc *New Br.*, MA *W.Ont.*,  
PhD *McG.* (on leave) Assoc. Prof.  
Laughton, P. M., BA *Tor.*, MSc *Dal.*,  
PhD *Wis.* Assoc. Prof.  
Forman, A. G., MSc *Br.Col.* Asst. Prof.  
Wiles, D. R., BSc *Mt.All.*, BEd MSc *McM.*,  
PhD *M.I.T.* Asst. Prof.

### Classics

Swallow, F. Ellenor M., MA *Alta.*,  
PhD *Corn.* Asst. Prof.

Anthropology, see Sociol.

### Astronomy

Millman, P. M., BA *Tor.*, AM PhD *Harv.*  
†Sessl. Lectr.

### Biology

Nesbitt, H. H. J., BA *Qu.*, MA PhD *Tor.*,  
DSc *Ley.*, FLS Prof.  
Wightman, F., BSc PhD *Leeds* Assoc. Prof.  
Illman, W. I., BA MSc *W.Ont.* (Bot.) Asst. Prof.  
Bayly, Mrs. Isabel L., BSc MA *Tor.* Lectr.  
Smith, D., MA PhD *Tor.* Lectr.  
Solman, V. E. F., MA PhD *Tor.* †Sessl. Lectr.

### Chemistry

Morton, J. M., MSc *Dal.*, MA PhD *Prin.* Prof.

### Commercial Law

Corlett, M. E., BA *Tor.* †Sessl. Lectr.

### Economics

Gordon, H. S., BA *Dal.*, AM *Col.* Prof.  
English, H. E., BA *Br.Col.*, PhD *Calif.* Assoc. Prof.  
Brewis, T. N., MCom PhD *Durh.* (on leave) Assoc. Prof.  
Kaliski, S. F., BA *Br.Col.*, MA *Tor.*,  
PhD *Maine* Asst. Prof.  
Read, L. M., BA *Dal.*, MA *Tor.* Asst. Prof.  
Comeau, R. L., MA *St.F.X.* Lectr.  
Sawyer, Mrs. Virginia, AB *Calif.*,  
MA *Minn.*, MBA *Chic.* †Sessl. Lectr.

\* Member of the Association of Universities of the British Commonwealth



Dymond, W. R., MA *Tor.*, PhD *Corn.*  
Sessl. Lectr.

### Engineering

Ruptash, J., BSc *Alta.*, MAsc PhD *Tor.* Prof.  
Putnaerglis, R., MechEng *Latvia*,  
MEng *McG.* Assoc. Prof.  
Goldsmith, E. E., DIC, DiplIng *Berl.*  
Assoc. Prof.  
Tackaberry, S. G., CBE, BAsc *Tor.* Asst. Prof.  
Minty, D. H., BSc *Manit.* Asst. Prof.  
Wright, W., BAsc *Tor.* Asst. Prof.  
McDonald, R. C., BAsc *Tor.* Sessl. Lectr.  
Cockshutt, E. P., BAsc *Tor.*, SM  
MechEng ScD *M.I.T.* Sessl. Lectr.

### English

Beattie, A. M., BA *Tor.*, AM PhD *Col.*  
(on leave) Prof.  
Johnston, G. B., MA *Tor.* Assoc. Prof.  
McDougall, R. L., BA *Br.Col.*, MA  
PhD *Tor.* Assoc. Prof.  
Wood, G. J., MA *Tor.* Asst. Prof.  
Hornyansky, M., BA *Tor.*, MA *Oxon.* Asst. Prof.  
Plumstead, W. A., MA *Roch.* †Sessl. Lectr.  
Jones, B. W., BA *Grinnell*, MA PhD *Iowa*  
†Sessl. Lectr.  
Phillips, Mrs. Mary A., MA *Tor.* †Instr.  
Underhill, Mrs. Ruth M., BA *Sask.*,  
MA *Tor.* †Instr.  
Moyer, Violet, BA †Instr.  
Fischer, Mrs. Gretl, BA *Br.Col.* †Instr.  
McBrine, R., BA *New Br.* †Instr.  
Wurtele, D., BA *Lond.* †Instr.

### Fine Arts

Milligan, C. H., MusBac *Tor.*, MMus *Roch.*  
(Music) †Sessl. Lectr.  
Robertson, J. K. B., MA *Tor.* †Sessl. Lectr.

### French

Mélèse, P., Dèsl *Paris* Visiting Prof.  
Tassie, J. S., BA *McM.*, MA PhD *Tor.*  
Assoc. Prof.  
Young, J. P., BA *Qu.*, Dèsl *Bordeaux* Asst. Prof.  
Fleischauer, C. P., AM PhD *Harv.*  
(on leave) Asst. Prof.  
Bismuth, R. E. V., Dèsl *Lille* Asst. Prof.  
Carter, A. E., BA *Br.Col.*, MA *McG.*,  
PhD *Lond.* †Sessl. Lectr.

### Geography

Merrill, G. C., MA *McG.*, PhD *Calif.*  
Assoc. Prof.  
Bone, R. M., BA *Br.Col.*, MA *Wash.*  
Sessl. Lectr.  
Williams, P. J., MA *Camb.* †Sessl. Lectr.

### Geology

Riddell, J. E., BEng MSc PhD *McG.*,  
FRSCan, FGSA Prof.  
Hill, P. A., BSc *Lond.*, PhD *Col.*, FGS  
Asst. Prof.

Young, W. L., MSc PhD *McG.* Asst. Prof.  
Hooper, K., MSc *Lond.*, FGS Asst. Prof.  
Tupper, W., MSc *New Br.*, PhD *M.I.T.* Lectr.  
Alcock, F. J., BA *Tor.*, PhD *Yale*, FRSCan,  
FGSA Sessl. Lectr.  
Allen, M. M., MSc †Sessl. Lectr.  
Innis, M. G., BSc PhD †Sessl. Lectr.  
McLearn, F. H., BE *Dal.*, PhD *Yale*,  
FRSCan, FGSA †Sessl. Lectr.  
Boyle, R. W., PhD *Tor.* †Sessl. Lectr.  
Morley, L. W., MA PhD *Tor.* †Sessl. Lectr.  
Pelletier, B. R., PhD †Sessl. Lectr.

### German

Oppenheimer, E. M., BA *Tor.*, AM *Col.*,  
PhD *Harv.* Asst. Prof.  
Camfield, D. A., MA *Oxon.* †Sessl. Lectr.

### History

Gibson, J. A., BA *Br.Col.*, MA BLitt  
DPhil *Oxon.* Prof.  
Farr, D. M. L., BA *Br.Col.*, MA *Tor.*,  
DPhil *Oxon.* Assoc. Prof.  
Couse, G. S., BA *McM.* Assoc. Prof.  
Mealing, S. R., BA *Alta.*, MA BLitt *Oxon.*  
Asst. Prof.  
Moir, J. S., MA PhD *Tor.* Asst. Prof.  
Bowen, D. G., MA *Qu.* †Instr.  
McQueen, J. M., MA *Tor.* Hon. Lectr.  
Grantham, R., MA *Br.Col.* †Sessl. Lectr.  
Clark, L. C., BA *Manit.*, MA *Tor.* †Sessl. Lectr.

### Journalism

Eggleston, W., MBE, BA *Qu.* Prof.  
Kesterton, W. H., BA *Qu.*, BJ Asst. Prof.  
Baldwin, Mrs. Frances O., BA BJ Sessl. Lectr.  
Herbert, W. B., BA LLB *Alta.* Seminar Leader  
Cawdron, E. Field Work Supervisor  
Anderson, S., BJ Field Work Supervisor

### Mathematics

Macphail, M. S., BA *Qu.*, MA *McG.*,  
DPhil *Oxon.*, FRSCan  
Prof., Assoc. Dean, Fac. of Arts & Sci.  
Northover, F. H., MA *Camb.*, PhD *Lond.*  
Assoc. Prof.  
Treffner, H., BSc *SirG.Wms.* Lectr.  
Gamble, R. B., BSc *McG.* Lectr.  
Rentner, L. W., BA *Tor.* Sessl. Lectr.  
Robinson, P., PhD Sessl. Lectr.  
Dale, D. K., BA *Qu.* Sessl. Lectr.  
Beatty, R. L., BA *Tor.* Sessl. Lectr.  
Gardner, J. C., BA *MEd Tor.* Sessl. Lectr.  
Wickens, A. J., MSc Sessl. Lectr.  
Veall, A. R., BA *McM.* Sessl. Lectr.  
Byrne, L. J., MA *Tor.* †Sessl. Lectr.  
Hobson, Frances, MA †Sessl. Lectr.  
Rust, Velma, BSc *Med Alta.*, PhD *Ill.*  
†Sessl. Lectr.

### Philosophy

Wernham, J. C. S., MA *Aberd. & Camb.*,  
STM'U.T.S. (N.Y.) Assoc. Prof.  
Wand, B., MA *Qu.*, PhD *Corn.* Assoc. Prof.

McClung, M., MA *Oxon.*  
Thompson, J. M., MA *Tor.*  
Talmage, R. S., BA *Oxon.*

†Sessl. Lectr.  
Lectr.  
Lectr.

Smith, A. H., MA *Qu.*, PhD *Tor.*  
Blair, W. R. M.  
Fenn, N. D., BSc MEd *Springfield*

†Sessl. Lectr.  
†Sessl. Lectr.  
†Sessl. Lectr.

### Physics

Munn, A. M., BSc *Qu.*, MSc PhD *McG.* Prof.  
Love, G. R., MA *W.Ont.*, PhD *Tor.* Assoc. Prof.  
Hart, J., BSc PhD *Lond.* Assoc. Prof.  
Ghosh, A. C., MSc *Calc.* Asst. Prof.  
Cole, T. J. S., BSc(Eng) *Lond.*, BSc Asst. Prof.

### Political Science and Public Administration

MacFarlane, R. O., MA *Qu.*, PhD *Harv.* Prof.  
Rowat, D. C., BA *Tor.*, AM PhD *Col.*  
(on leave) Prof.  
Keith-Lucas, B., MA *Camb.* Visiting Prof.  
McRae, K. D., BA *Tor.*, AM PhD *Harv.*  
Assoc. Prof.  
Anglin, D. G., MA *Tor.*, DPhil *Oxon.*  
Assoc. Prof.  
Jewett, Pauline, MA *Qu.*, PhD *Harv.*  
Assoc. Prof.

Willms, A. M., MA Sp. Lectr.  
Juvet, C. S., BComm *Qu.*, MA Sessl. Lectr.  
Crowe, M. A., BA *Manit.* †Sessl. Lectr.  
Scanlon, T. J., BJ DPA †Sessl. Lectr.

### Psychology

Wake, F. R., BA PhD *McG.* Assoc. Prof.  
Wendt, R. A., MA *Alta.* Asst. Prof.  
Whitworth, F. E., BA *Sask.*, AM PhD *Calif.* †Sessl. Lectr.  
Breen, H. J., MA PhD *W.Ont.* †Sessl. Lectr.  
Laver, A. B., MA †Sessl. Lectr.  
Pimm, Mrs. June, MSPs *McG.* †Sessl. Lectr.

### Public Administration, sec Pol. Sci.

### Public Law

MacFarlane, R. O., MA *Qu.*, PhD *Harv.* Prof., Dir. of Sch.  
Henderson, G. F., QC, BA *Tor.* †Sessl. Lectr.  
Cattanach, A. A., QC, BA *Manit.*, LLB *Sask.* †Sessl. Lectr.

### Religion

Read, L. M., MA *Tor.* Asst. Prof.  
Eckstein, S. L., BA BRE *Yeshiva*, MA *N.Y.* Sessl. Lectr.  
Baycroft, J. A., MA *Camb.* †Sessl. Lectr.

### Russian

Garrard, J. G., BA *Oxon.* Lectr.

### Sociology

Porter, J. A., BSc(Econ) *Lond.* Assoc. Prof.  
Frumhartz, Muni C., BA *Tor.*, AM *Col.* Asst. Lectr.  
Rioux, M., BA *Laval*, MA *Montr.*, DipEth *Paris* Asst. Prof.  
Portugal, A., BSc *McG.*, AM *Tufts* Sessl. Lectr.

### Spanish

Forster, J. C., MA *Camb.* Lectr.  
Atienza, F., BT *Salamanca*, LicT *Innsbruck*, LicD *Rome*, PhD *Ott.* Sp. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar : Elizabeth M. Buckley, BA *Qu.*  
Asst. Librarian : Doris M. Honeywell, MA *Qu.*, BLS *Tor.* Admin. Asst. : C. V. Hotson, BJ.  
Accountant : A. B. Larosc, BCom, CA. Dir. of Athletics : N. D. Fenn, BS MEd *Springfield*.

Asst. Dir. of Athletics : K. N. Harris, BA BPHE *Qu.* Student Personnel Officer : Mrs. Jean A. Loates, BA. Med. Adviser : E. L. Davey, MD *DPH Tor.* Development Officer : D. Swain, BJ.

## GENERAL INFORMATION

The univ. (named after Sir Guy Carleton, governor-in-chief of British north America in mid-18th century) is non-denominational, co-educational and privately controlled. Conceived by a cttee. of the Ottawa Y.M.C.A. in 1938, the univ. had its beginning in 1942 when a group of interested citizens establd. the Ottawa Assocn. for the Advancement of Learning. In that year evg. classes of the 1st and 2nd univ. yrs. were opened under the name Carleton Coll. Both day and evg. curricula were expanded until, by 1949, they included full undergrad. courses in arts, sci.,

comm., journalism, pub. admin. and engin. A course leading to a grad. dipl. in pub. admin. was added in 1952, and a sch. of pub. admin. establd. in 1953, which in 1954 added a programme leading to the MA. Subsequently, a students' union, a library and a bldg. to house the sch. of pub. admin. were added, and 130 acres of land acquired for devel. of a new campus. In 1952 the legislative assembly of the province of Ontario passed the Carleton College Act, enlarging and specifying the coll.'s univ. powers. In the same yr. the coll. was made a member of the National Conference of

Canadian Univs., and in 1953 a member of the A.U.B.C. In 1957 the coll. was incorporated as Carleton Univ.

**INCOME (1958-59).** Total current income, \$1,114,496 (fees, \$394,526; endowment, \$16,316; provincial govt., \$325,000; federal govt., \$229,810; other gifts and grants, \$45,417; auxiliary enterprises, \$89,853; misc., \$13,574).

**FACULTY AND SCHOOL.** Fac. of arts & sci. (incl. comm. and journalism); sch. of engin.; sch. of grad. studies; sch. of pub. admin. *See also* p. 163.

**UNIVERSITY PRECINCT.** The univ. is located on a 130-acre campus of great natural beauty on the Rideau river. Its premises consist of a sci. bldg., a library (large enough to accomm. 80,000 vols.) and an arts bldg. which forms the third side of the main court. The library also houses the admin. offices of the univ. All these bldgs. are connected by a tunnel. Athletic facilities are also provided.

**LIBRARY.** 46,000 vols. *See also* 'Univ. Precinct', *above*.

**LABORATORIES, ETC.** Biol., chem., engin., geol., lang., phys. and psychol. labs.; audio-visual aids centre incl. equipment for sound motion picture projection, film-strip and slide projection.

**ADMISSION.** *See* Appendix II.

**FIRST DEGREES.** Day division—BA, BSc, 4 yrs. pass, 5 yrs. hons.; BA hons. may be taken in classics, econ., Engl., French, hist., pol. sci., pub. admin., sociol.; BSc hons. in appl. phys., biol., chem., geol., maths., phys. BCom, BEng, BJ (journalism), 4 yrs. Evg. division—BA, BSc, BCom, pass courses equivalent to those offered in day division but extending over a longer period of time.

The univ. does not offer any correspondence courses.

**HIGHER DEGREES.** Day division—MA in pub. admin., a course of min. 1 yr. beyond full hons. standing. Also MA or MSc in biol., Canadian studies, chem., econ., Engl., French, geol., hist., maths., phys., pol. sci., psychol. PhD (may, at present, be taken only in geol. and maths.), at least 2 yrs. full-time after MA or MSc. All grad. work open to grads. of other univs. Evg. division—BJ, 1 yr. after BA; MA in courses listed above.

**HONORARY DEGREE.** LL.D.

**DIPLOMAS AND CERTIFICATES.** Grad. dipl. in pub. admin., 1 yr. Evg. division—Grad. dipl. in pub. admin., cert. in pub. service studies, each the equivalent of a 1-yr. full-time course, but taking longer because followed by pt.-time students.

**ACADEMIC YEAR.** Winter session: mid-Sept. to mid-Dec.; first wk. of Jan. to first wk. of May.

**SUMMER SESSION.** Evg. classes in selected undergrad. subjects are offered in a 14-wk. summer session—June, July and Aug. Certain day courses are also offered. No degree can be obtained by attendance at summer session courses only.

**ADULT EDUCATION.** Evg. courses, provided for employed men and women seeking degrees and dipl., are open as well to those interested only in single subjects. In addition, extension courses, for which no academic credit is allowed, are offered at low cost to interested members of the public.

**FEES.** Day division: arts, comm., journalism, \$425 p.a.; engin., \$490 p.a.; sci., \$440 p.a. Evg. division: \$78 or \$82 per course. Extension courses: \$10 \$55 per subj.

**PRINCIPAL 'OPEN' AWARDS** offered to grads. of Canadian sec. schs. entering the univ. to read for a first degree: Union Carbide Canada Ltd. undergrad. scholp., \$500 p.a. until graduation; Internat. Nickel Co. scholp., about \$500 p.a. until graduation; E. B. Eddy scholps., \$600 p.a. until graduation; Parfield Oil Ltd. scholp., \$600 p.a. until graduation; 4 Regional Entrance scholps., \$1000 each. There is also a general bursary fund of \$3500 from which grants are made to students in need of financial aid.

**'OPEN' POSTGRADUATE AWARDS.** 2 scholps. of \$1000 each and 2 of \$750 each are available for study in course leading to grad. dipl. in pub. admin. Supplementary bursaries may also be provided. Fellowships, varying from \$1000 to \$1500, are offered for study toward MA in pub. admin.

**ATHLETICS.** Gymnasium and playing fields of Lansdowne Park; gymnasia of near-by secondary schs.; playing fields on new campus for intramural sports; thoroughly equipped field house.

**MILITARY TRAINING.** Preparation for commissioned rank in the active or reserve forces of the Royal Canadian Navy, the Canadian Army or the Royal Canadian Air Force is made possible by membership in the univ. naval trg. division, the Canadian officers' trg. corps or the R.C.A.F. reserve univ. squadron. Trg. is on a pt.-time basis during the academic session, full-time during the summer months.

**STUDENT SERVICES.** Under the supervision of the univ. med. adviser, a student health service is provided. Also available are counselling and guidance facilities and a student placement service. The univ. has no dormitories of its own but residences are shortly to be built. A housing registry is maintained through which rooms or rooms and board may be located in near-by homes. Meals and snacks are served in a cafeteria in the sci. bldg.

**ALUMNI ASSOCIATION.** An alumni assocn. was formed in 1949. Grads. are eligible for full membership.

**PUBLICATIONS.** By the univ.—*Calendar*, *Bulletin* and summer session announcement, all annually; *Scholarships Announcement*. By the students' assocn.—*The Carleton*, weekly newspaper; *The Raven*, annually; *Directory of Students*, annually.

## THE YEAR 1959

HONORARY DEGREES. *LLD*—Very Rev. H. F. Légaré, rector, Ott.; Hon. N. M. Paterson, senator; Prof. F. H. Underhill, curator, Laurier House.

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	646	695
Women . . .	211	290
Total . . .	857	985

Distribution by Faculties (day division). *Arts*, 357; *comm.*, 85; *engin.*, 82; *journalism*, 50; *pub. admin.* (day & evg.), 64; *sci.*, 251.

*Included in the figures above are :-*

Postgraduate students, 19.

New admissions (day division), 386.

Students from other countries, 64. (Countries from which largest numbers came : Hong Kong, 10; Ghana, 7).

DEGREES AWARDED (1958-59). *Arts* : BA, 64; BA (hons.), 5; MA, 3. *Comm.* : BCom, 17. *Journalism* : BJ, 7. *Sci.* : BSc, 27; BSc (hons.), 6.

DIPLOMAS AWARDED (1958-59). *Pub. admin.*,

CERTIFICATES AWARDED (1958-59). *Engin.*, 9; *pub. service studies*, 1.

# DALHOUSIE UNIVERSITY§

Founded 1818

With which is affiliated the University of King's College (see p. 176)

*Postal Address* : Halifax, Nova Scotia, Canada

*Cables and Telegrams* : Dalhousie University, Halifax

*Telephone (Registrar)* : Halifax 3-7494, 3-8261

CHANCELLOR—The Rt. Hon. C. D. HOWE, BSc *M.I.T.*, LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—D. McINNES, QC, BA LLB

PRESIDENT AND VICE-CHANCELLOR—A. E. KERR, BD *U.T.S.(N.Y.)*, DD *United Coll.(Manit.)*, *Acad. & Glas.*, LL.D *Mt.All. & New Br.*, BA

VICE-PRESIDENT—C. L. BENNETT, MA *Camb.*, AM *Harv.*

SECRETARY OF SENATE—R. S. CUMMING, MA *McG.*, BA

REGISTRAR—BEATRICE R. E. SMITH

BUSINESS MANAGER—D. H. McNEILL, BSc

LIBRARIAN—J. P. WILKINSON, BA *MLIS Tor.*

## TEACHING STAFF

[\*—also member of Fac. of Grad. Studies ; †= Part-Time ; (K.)= King's Coll.]

### Anatomy

Saunders, R. L. de C. H., MD *Edin.*,  
FRSSAf Campbell Prof.  
Némethy, N., MD *Debrecen* Assoc. Prof.  
Fyfe, F. W., MA MB ChB *Aberd.* Assoc. Prof.  
Leeson, C. R., MA MD *Camb.* Assoc. Prof.  
Threadgold, L. T., PhD *Dub.* Asst. Prof.  
Saini, V. K., MB BS *Cal.* Asst. Prof.  
Nichols, Mrs. Roberta B., BA MD CM Lectr.  
Goudge, Mrs. Lorna, BA *Acad.*,  
MA *W.Ont.* Lectr.  
Saunders, Mrs. S. C., MB ChB *Edin.* †Instr.

**Art**, see Fine Arts

### Biblical Literature

Corston, Rev. J. B., PhD *Edin.*, DD *Pine Hill*,  
MA †Sp. Lectr.

**Biochemistry**, see Medicine

### Biology

\*Hayes, F. R., PhD DSc *Liv.*, MSc, FRSCan  
Campbell Prof.  
\*Pelluet, Dixie, MA *Tor. & Bryn Mawr*,  
PhD *Bryn Mawr* Assoc. Prof.  
\*von Maltzahn, K. E., MS PhD *Yale*  
Assoc. Prof.

### Chemistry

\*Chute, W. J., BSc *Acad.*, MA PhD *Tor.*  
Shirreff Prof.

\*Trost, W. R., BSc *Alta.*, PhD *McG.* Prof.  
Ryan, D. E., BSc *New Br.*, MA *Tor.*,  
PhD *Lond.* Assoc. Prof.  
Webber, R. V., PhD *Wis.*, MSc Asst. Prof.  
Hayes, K. E., BSc *Lond.*, PhD *Oregon* Asst. Prof.  
Splitstone, P. L., PhD *Ohio State* Asst. Prof.

### Classics

..... Prof.  
\*Doull, J. A., MA *Tor.*, BA Assoc. Prof.  
Usniani, M. A., BA *Zagreb*, MA *Pitt.*,  
PhD *Harv.* Asst. Prof.

### Commerce

Cumming, R. S., MA *McG.*, BA Black Prof.  
Millie, J. E., BCom Asst. Prof.  
Busche, R. H., BCom †Sp. Lectr.

### Dentistry

Bingham, R. H., DDS Prof.  
Christie, P. S., DDS †Prof.  
Crosby, H. S., DDS †Prof.  
Dewis, G. M., DDS, FACD †Prof.  
Eaton, H. M., DDS, FACD †Prof.  
Haverstock, A. B., BSc(Dent) *Tor.*, DDS,  
FACD †Prof.  
Kerr, K. M., DDS Prof.  
McGuigan, J. P., DDS †Prof.  
McLean, J. D., DDS, FACD Prof.

Findlay, J., PhD *Glas.*, DDS *Tor.* Assoc. Prof.  
 Hoffman, A. E., DDS Assoc. Prof.  
 Noble, J. A., OBE, BA *Acad.*, MB  
 ChB *Edin.*, FRCSEd †Assoc. Prof.  
 Eaton, D. C., BSc *Acad.*, DDS †Asst. Prof.  
 Merritt, J. E., DDS *Tor.* †Asst. Prof.  
 Pentz, D. G., DDS †Asst. Prof.  
 Dawson, W. G., DPH *Tor.*, DDS †Lectr.  
 Lubetsky, I. K., DDS †Lectr.  
 Spracklin, T. E., BA *Acad.*, MSc(Dent) *Tor.*,  
 DDS †Lectr.  
 Vaughan, J. R., DDS †Lectr.  
 Wenning, A. S., MD CM †Lectr.  
 Archibald, L. J., DDS †Demr.  
 Caldwell, G. W., BSc DDS †Demr.  
 Dexter, C. E., BSc DDS †Demr.  
 Dexter, E. F., DDS †Demr.  
 Eisner, D. A., DDS †Demr.  
 Ervin, A. H., DDS †Demr.  
 MacConnachie, H. J., DDS †Demr.  
 MacLachlan, D. E., BSc(PhysEd) *Springfield*,  
 DDS †Demr.

### Economics and Sociology

Uhler, F., PhD *Prague* Assoc. Prof. (K.)  
 Githam, J. F., BA *Br.Col.*, PhD *Col.*  
 Assoc. Prof.

### Education

Mowat, A. S., MA BEd *Edin.* Prof.  
 Moor, C. F., AM *Col.*, BSc BEd Asst. Prof.  
 Wall, Florence I., BA *Mt.St.Vin.*, AM *Col.*  
 †Sp. Lectr.

### Engineering

Theakston, H. R., BSc(Mining)  
 DEng *N.S.T.C.*, MEIC Howe Prof.  
 Marginson, K. F., BE(Mech) *N.S.T.C.*,  
 MEIC Assoc. Prof.  
 Vatcher, R. L., BE(Civil) *N.S.T.C.*,  
 MEIC Asst. Prof.  
 Chisholm, A. F., BE(Civil) *N.S.T.C.*,  
 MEIC †Sp. Lectr.

### English Language and Literature

\*Bevan, A. R., BA *Sask.*, MA *Manit.*,  
 PhD *Tor.* Munro Prof., Hd. of Dept.  
 \*Bennet, C. L., MA *Camb.*, AM *Harv.* Prof.  
 \*Sprott, S. E., MA *Melb.*, BD *Melb.*  
 Div. Coll., PhD *Col.* Assoc. Prof.  
 Parks, M. G., MA Asst. Prof.  
 Dawson, R. M., MA *Tor.*, BLitt *Oxon.*  
 Asst. Prof. (K.)

### Fine Arts

Mackay, D. C. †Sp. Lectr.

### French, see Romance Langs.

### Geology

\*Friedlaender, C. G. I., PhD *Zür.*  
 Carnegie Prof.  
 Milligan, G. C., MSc Assoc. Prof.

### German

..... Asst. Prof.  
 Usmiani, Mrs. Renate, BA *Hobart(N.Y.)*,  
 AM *Harv.* Lectr.

### Hebrew

Clarkson, Rev. Canon W. W., BSLitt *K.C.N.S.*  
 †Sp. Lectr.  
 Hardie, Rev. J. B., MA BD PhD *Glas.*  
 †Sp. Lectr.

### History

..... Munro Prof.  
 \*Wilson, G. E., MA *Qu.*, LL.D *Qu.* & *St.M.*,  
 PhD *Harv.*, FRSCan Sp. Lectr.  
 \*Fergusson, C. B., DPhil *Oxon.*, BA  
 †Assoc. Prof.  
 Waite, P. B., MA *Br.Col.*, PhD *Tor.* Assoc. Prof.  
 MacLean, G. R., BA *Oxon.*, PhD *Duke*,  
 MA Asst. Prof.  
 Granter, H. S., AM *Harv.*, BA Asst. Prof. (K.)

### Law

Edwards, J. LL J., LLB *Wales*,  
 MA *Camb.*, PhD *Lond.* Dunn Prof.  
 Meagher, A. J., QC, BA LLB  
 Prov. of N.S. Prof.  
 Murray, R. G., QC, LL.M *Harv.*, BA  
 LLB Bennett Prof.  
 Nicholls, G. V. V., QC, BA BCL *McG.* Prof.  
 Read, H. E., OBE, QC, LL.M SJD *Harv.*,  
 BA DCL *Acad.*, LLB Weldon Prof.  
 Beeson, Eunice W., AB *Colorado*,  
 SB *Simmons*, LLB *Northeastern*  
 Assoc. Prof., Sir James Dunn Librarian  
 MacKay, W. A., BA LL.M Assoc. Prof.  
 Charles, W. H. R., BA *SirG.Wms.*, LLB  
 Asst. Prof.  
 Harris, E. C., LL.M *Harv.*, BCom LLB  
 Asst. Prof.  
 Inrig, G. F. W., BA *Qu.*, MCL *S.Methodist*,  
 LLB Asst. Prof.  
 Havey, C. B., BA BSc BEd *Acad.*, LLB †Lectr.  
 Green, N., BA LLB †Lectr.  
 Kerr, D. A., BCom LLB †Lectr.  
 MacAdam, J. H., BA *St.F.X.*, LLB †Lectr.  
 Matheson, G. R., LLB †Lectr.  
 Muggah, H. F., QC, BA LLB  
 †Lectr., Assoc. Dir., Legis. Res.  
 O'Hearn, P. J. T., BA *St.M.*, LLB †Lectr.  
 Smith, K. S., QC, BA LLB †Lectr.  
 Coffin, T. H., QC, BA LLB †Sp. Lectr.  
 Cooper, A. G., QC, BCL *Oxon.*, BCom  
 †Sp. Lectr.  
 Ilsley, Rt. Hon. J. L., BA DCL *Acad.*,  
 LL.D *McG.*, *Qu.*, *McM.* & *Dal.*, LLB  
 †Sp. Lectr.  
 MacDonald, Hon. V. C., LL.D *St.F.X.*,  
 Col. & *Dal.*, JUD *Br.Col.*, BA LLB,  
 FRSCan †Sp. Lectr.  
 MacKeigan, I. M., QC, MA *Tor.* & *Dal.*,  
 LLB †Sp. Lectr.  
 MacQuarrie, Hon. J. H., BA DCL *Acad.*,  
 LLB †Sp. Lectr.

**Mathematics**

- \*Adshead, J. G., MA *Camb.* Prof.  
 Tingley, A. J., BA *Mt. All.*, MA PhD *Minn.* Assoc. Prof.  
 Heighton, E. L., BSc MA Asst. Prof. (K.)

**Medicine and Surgery**, see below**Music**

..... †Lectr.

**Nursing, School of**

- MacLennan, F. A. Electa, AM *Col.*, BA Dir.  
 Church, Jean G., AM *Col.*, BSc Asst. Dir.  
 9 Lectrs.†, 7 Instrs.†

**Philosophy**

- ..... Munro Prof.  
 Vingoe, R. H., BA *McM.*, MA PhD *Tor.* Assoc. Prof.  
 MacLennan, I. A., BA *Oxon.*, MSc *Lond.* Asst. Prof.

**Physics**

- \*Archibald, W. J., PhD *Virginia*, MA, FRSCan Fales Prof.  
 \*Johnstone, J. H. L., OBE, PhD *Yale*, MSc Munro Prof.  
 \*Guptill, E. W., BSc *Acad.*, MA *W. Ont.*, PhD *McG.* Prof., Hd. of Dept.  
 Blanchard, J. E., MA PhD *Tor.* BSc (Geophys.) Assoc. Prof.  
 Hoyt, C. K., PhD *M.I.T.*, MSc (Electronics) Assoc. Prof.

**Physiology**

- \*Weld, C. B., MA *Br. Col.*, MD *Tor.*, FRSCan Prof.  
 \*Kaplan, J. G., AB *Coll. of City of N. Y.*, AM PhD *Col.* Assoc. Prof.  
 Josenhans, W., MD *Tübingen* Assoc. Prof.  
 Cudkowicz, L., MD, MRCP Assoc. Prof.

**Political Science**

- \*Aitchison, J. H., BA BEd *Sask.*, BSc *Lond.*, PhD *Tor.* Dennis Prof.

**Psychology**

- \*Page, F. H., MA *Tor.* Prof. (K.)  
 \*Marshall, Mrs. Frances, MA *Nebraska*, PhD *Chic.* Assoc. Prof.  
 \*Beach, H. D., BA *Sask. & Oxon.*, PhD *McG.* Assoc. Prof.

**Public Affairs**

- \*Henson, G., BA *Acad.* Dir. of Inst.  
 Maclean, D. F., BA *Acad.*, MA Asst. to Dir. of Inst.  
 Neal, A. L., BA *Acad.*, BSc *Lond.* Res. Assoc.  
 Hillier, G. A., BSc *Penn.*, BEd *Corn.* †Sp. Lectr.

**Romance Languages**

- \*Chavy, P. (French) Prof.  
 Garcia-López, Marie T., PhD *Madrid* (Spanish) Asst. Prof.

- Aikens, H. F., AM *Yale*, BA (French) Asst. Prof.  
 Chavy, Mrs. Suzanne J. M.-L., Lès *L. Paris* (French) Lectr.  
 Coffin, Mrs. Irene, Lès *L. Paris* (French) Lectr.

**Russian**

- Coffin, Mrs. Irene, Lès *L. Paris* †Lectr.

**Sociology**, see Econ. and Sociol.**Spanish**, see Romance Langs.**MEDICINE**

(for subjects of the first 2 yrs.—  
 Anat., etc., see above)

**Anæsthesia**

- Stoddard, C. C., MD CM †Prof.  
 Nichols, Roberta B., BA MD CM †Assoc. Prof.  
 Pasquet, A. F., MD CM *Qu.* †Assoc. Prof.  
 Baker, C. H. L., MD CM †Asst. Prof.  
 Ballem, R. W. M., MD CM †Asst. Prof.  
 Purkis, I., MB BS *Lond.*, FFARCS †Asst. Prof.  
 Mackinnon, C. G., BA MD CM †Asst. Prof.  
 MacIntosh, A. S., BA BSc MD CM †Asst. Prof.  
 Fleming, R. A. P., MD CM *Qu.* †Asst. Prof.  
 Graham, D. V., BSc MD CM †Instr.  
 Anderson, T. A., BA *New Br.*, MD CM †Instr.  
 Wenning, A. S., MD CM †Instr.

**Bacteriology**

- \*van Rooyen, C. E., MD ChB DSc *Edin.*, FRCPCan, MRCP Prof.  
 Speers, R., BA *Tor.*, MSc PhD *McG.* Asst. Prof.  
 Rozee, K. R., PhD Asst. Prof.  
 Sunpson, D. M., MSc *Tor. & Dal.* †Lectr.

**Biochemistry**

- \*McCarter, J. A., MA *Br. Col.*, PhD *Tor.* (on leave) Prof.  
 \*Macpherson, L. B., MBE, BSc *Acad.*, PhD *Tor.* Assoc. Prof.  
 \*Wainwright, S. D., BA *Camb.*, PhD *Lond.* Res. Assoc. Prof.  
 Kay, E. R. M., MA *McM.*, PhD *Roch.* Asst. Prof.  
 Harlow, C. M., BSc *Acad.*, PhD MD CM *McG.* †Lectr.  
 Moya, F. J., BSc *Laval*, PhD *McG.* †Lectr.  
 Stewart, Mrs. Lucille, MSc *McG.* Lectr.  
 Brown, H. J., BSc *St. F. X.*, BEd *Acad.*, MSc MD CM †Lectr.

**Hospital Administration**

- Bethune, C. M., MBE, BSc MD CM †Prof.  
 Kirk, T. E., BA *St. F. X.*, MD CM *McG.* †Assoc. Prof.

**Medical Jurisprudence and Toxicology**

- Murray, A. E., BA MD CM †Lectr.

**Medicine and Clinical Medicine**

- Dickson, R. C., OBE, MD *Tor.*, FRCPCan, FACP Prof., Hd. of Dept.  
 Holland, C. W., BA MD CM, FRCPCan, FACP †Prof.  
 Sieniewicz, T. M., MD CM, FRCPCan †Assoc. Prof.  
 MacIntosh, J. W., MD CM, FACP †Assoc. Prof.  
 Marshall, C. S., MD CM (Neurol.) †Assoc. Prof.  
 Reid, J. W., MD CM, MRCP †Assoc. Prof.  
 Tonning, D. J., MD CM, FACP †Assoc. Prof.  
 MacDonald, R. M., BSA *McG.*, MB ChB *Edin.*, FRCPCan †Assoc. Prof.  
 Steeves, L. C., BA *Mt.All.*, MD CM *McG.*, FRCPCan †Assoc. Prof.  
 Beckwith, C. J. W., DPH *Tor.*, BA MD CM †Assoc. Prof.  
 Morse, W. I., MD CM, FRCPCan Res. Assoc. Prof.  
 Atkins, R. L., BSc MD CM, FRCPCan †Assoc. Prof.  
 Howell, D. R. S. †Assoc. Prof.  
 Shane, S. J., BSc MD CM, FRCPCan, FACP Assoc. Prof.  
 Read, H. C., MD CM †Assoc. Prof.  
 Gudkiewicz, L., MD, MRCP Res. Assoc. Prof.  
 Tonning, H. O., BSc MD CM, FRCPCan †Asst. Prof.  
 Woodbury, J. F. L., BSc MD CM (Rheumatism & Arthritis) †Asst. Prof.  
 Leshe, W., MD *Manit.*, FRCPCan †Asst. Prof.  
 Colwell, G. J. H., MD CM †Asst. Prof.  
 Shears, A. H., MD CM †Asst. Prof.  
 Gordon, C. A., MD CM †Asst. Prof.  
 Roy, D. L., MD CM †Asst. Prof.  
 Bethune, J. E., BA BSc *Acad.*, MD CM, FRCPCan Asst. Prof.  
 Roberts, R. H., MD *Law.* †Asst. Prof.  
 Scammell, H. L., MD CM †Lectr.  
 Campbell, A. B., MD CM †Lectr.  
 Murray, A. E., BA MD CM †Lectr.  
 Nova, F. J., BSc *Laval*, PhD *McG.* (Exper. Med.) †Lectr.  
 Murray, W. A., MD CM †Lectr.  
 Goldberg, H. I., BSc MD CM †Lectr.  
 McDonald, H. N. A., MD CM †Lectr.  
 Kemper, F. D., BA *Br.Col.*, MD CM *McG.* †Instr.  
 MacGregor, H. I., BSc MD CM †Instr.  
 MacIntosh, J. W., Jr., BSc MD CM †Instr.  
 Still, H. C., MB Chir *Camb.* †Instr.  
 Young, C. H., MD CM †Instr.

**Obstetrics and Gynaecology**

- Lupper, W. R. C., BSc MD CM, FACS Prof.  
 Grant, K. M., BSc MD CM †Assoc. Prof.  
 Berlin, I. A., BSc MD CM, FACS †Assoc. Prof.  
 Corston, J. M., MB ChB *Edin.* †Assoc. Prof.  
 Tompkins, M. G., MD CM, FRCSCan †Asst. Prof.  
 Robinson, S. C., MD *Tor.* †Lectr.

**Ophthalmology and Oto-Laryngology**

- Doull, A. E., MD CM †Prof.  
 MacRae, D. M., BSc MD CM †Assoc. Prof.  
 Holland, L. G., BA MD CM †Asst. Prof.  
 Hammerling, J. S., BSc MD *N.Y.Med.Coll.* †Lectr.  
 Keays, C. F., MD CM †Lectr.  
 Shane, A. G., BSc MD CM †Lectr.  
 Murray, D. K., MD CM, FACS †Lectr.  
 Quigley, J. H., BSc MD CM †Instr.  
 Glenister, E. I., BA *St.M.* †Instr.

**Pædiatrics**

- Coward, N. B., MD CM †Prof.  
 Cochrane, W. A., MD *Tor.*, FRCPCan Assoc. Prof.  
 Roberts, Maureen H., MB ChB *Edin.* †Assoc. Prof.  
 Ritchie, R. M., MD CM †Assoc. Prof.  
 Ross, H. B., BSc MD CM †Assoc. Prof.  
 Gibbon, A. D., MD CM †Asst. Prof.  
 Grant, R. S., BSc MD CM †Asst. Prof.  
 Sigsworth, P. M. W., MD CM †Lectr.  
 Morton, B. St. C., BSc *Acad.*, MD CM †Lectr.  
 Crosby, Joan M., BSc MD CM †Lectr.  
 Hunter, Helen M., BSc MD CM †Lectr.  
 Weste, U. A., MD *Freib.* †Lectr.  
 Ross, Mrs. Elizabeth D., BA *Acad.*, MD CM †Lectr.  
 Rogers, J. W., MD *Qu.* †Instr.

**Pathology**

- Taylor, W. A., BSc MB ChB *Glas.* Prof.  
 Maxwell, I. D., BSc *Brist.*, MB ChB *Edin.* Assoc. Prof.  
 Aterman, K., MD *Prague*, MB BCh *Belf.*, MRCP Assoc. Prof.  
 Harlow, C. M., BSc *Acad.*, PhD MD CM *McG.* †Asst. Prof.  
 Read, H. C., MD CM †Asst. Prof.  
 Handforth, C. P., BSc MB BS *Lond.* †Asst. Prof.  
 Chipman, C. D., BSc MD CM, FRCPCan Asst. Prof.  
 Sorger, K., MD *Graz* Asst. Prof.  
 Kerenyi, N., MD *Bud.* Lectr.  
 Smith, R. L., MD CM *McG.* †Lectr.  
 MacKenzie, A., MD CM Instr.

**Pharmacology and Materia Medica**

- \*Aldous, J. G., MA *Br.Col.*, PhD *Tor.* Prof.  
 Reynolds, A. K., BA MSc PhD *W.Ont.* Assoc. Prof.  
 \*Szerb, J. C., MD *Munich* Assoc. Prof.  
 Cooke, J. E., BSc †Demr.  
 MacKnight, Jessie I. †Demr.

**Preventive Medicine**

- \*Stewart, C. B., DrPH *Johns H.*, BSc MD CM (Epidemiol.) Eddy Prof.  
 Morton, A. R. MD CM MPH *Johns H.* †Assoc. Prof.





Sec., Fac. of Arts and Sci.: A. S. Mowat, MA BEd *Edin.* Sec., Fac. of Law: W. A. MacKay, BA LL.M. Sec., Fac. of Med.: C. B. Weld, MA *Br.Col.*, MD *Tor.*, FRSCan. Sec., Fac. of Dent.: R. H. Bingham, DDS. Sec., Fac. of

Grad. Studies: W. J. Chute, BSc *Acad.*, MA PhD *Tor.* Warden, Shirreff Hall (Women's Residence): Helen C. Reynolds, BSc. Dir., Phys. Educn. for Men: D. C. Dargie, BS *Springfield.* Accountant: D. N. Borgal.

## ASSOCIATED AND AFFILIATED INSTITUTIONS

UNIVERSITY OF KING'S COLLEGE, *see* p. 176.

PINE HILL DIVINITY HALL, Halifax (tel.: 3-6939). Founded in 1820 as a Presbyterian theol. coll., is now under United Church of Canada. Classes of 1 full yr. in theol. are recognized as 1 yr. for the BA. Students may complete the div. course at the Hall and take the BA in 6 yrs. Confers the degree BD. Principal—Very Rev. C. M. Nicholson, BA DD LLD. 4 other Profs.

KING'S COLLEGE DIVINITY SCHOOL (*see* p. 176). The classes and exams. in div. are recognized on the same terms as those of Pine Hill Div. Hall.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Founded 1860. Students holding certain certs. of the coll. enter the 1st, 2nd or 3rd yr. of the BA course at Dalhousie. Principal—F. MacKinnon, BA *McG.*, MA PhD *Tor.*, LLD *New Br.*

MARITIME CONSERVATORY OF MUSIC, Halifax (tel.: 5-4343). Courses recognized for BMus and LicMus of Dalhousie. Director—.....

MARITIME COLLEGE OF PHARMACY, Halifax (tel.: 3-6735). Founded 1911. Courses recognized as part of the qualifs. for BSc (Pharmacy) at Dalhousie. Dean—J. E. Cooke, BSc.

## GENERAL INFORMATION

Dalhousie Coll., founded in 1818 by the ninth Earl of Dalhousie, has been discharging univ. functions since 1863 when it was reorganized and reopened with a staff of 6 profs. From 1879 devel. was rapid, helped by the benefactions of G. Munro of N.Y., A. McLeod of Halifax and Sir Wm. Young. In 1883 the fac. of law was establd., and in 1906 pure sci. united with arts to form the fac. of arts & sci. Appl. sci. was replaced by the fac. of engin., which was later reduced to a dept. by agreement with other maritime univs. when the N.S.T.C. opened for professional teaching. In 1911 the fac. of med. and in 1912 the fac. of dent. assumed full teaching duties. The Maritime Coll. of Pharm. was given quarters in the univ. in 1911. The fac. of grad. studies, offering masters' degrees in arts, sci., med. and law, and the PhD in biol. scis., was establd. in 1949.

In 1912 \$400,000 was collected for an addnl. site (40 acres) and bldgs. towards which Andrew Carnegie gave \$40,000. Other gifts from the Carnegie Corporation and the Rockefeller Foundation permitted expansion of facilities for the med. sch. after 1918. In 1923 the Univ. of King's Coll., in assocn. with Dalhousie, was given a site on the new campus, which also contains the provincial archives and the maritime labs. of the Nat. Res. Council. The International Commission for the Northwest Atlantic Fisheries accepted the univ.'s invitation to establish its permanent headquarters in Dalhousie in 1953. A new arts and admin. bldg. was opened in 1952, and the O. E. Smith wing of the Macdonald memorial library, containing the Kipling room, in 1956. The Sir James Dunn sci. bldg. opens in Oct. 1960. A new men's residence with accomm. for 150 students will be opened during 1960-61 session. About half of total cost of \$1,600,000 was provided by Canada Council.

CONSTITUTION. The bd. of governors is the supreme governing body of the univ. Appts. to it are made by the governor-in-council on the nomination of the bd. The governors have the management of the funds and property of the univ., the power of appointing the pres., profs. and other officials and of determining their duties and salaries, and the general oversight of the work of the univ. The senate consists of the pres. and profs. To this body are entrusted, by statute, the internal regns. of the univ., subject to the approval of the governors. All degrees are conferred by the senate. The facs. consist of the members of the teaching staff in each of the 5 main domains of study in which courses can be pursued, namely, arts & sci., law, med., dent. and grad. studies. To them are entrusted by the senate, subject to its approval, supervision of teaching, preparation of regns. governing courses of study, and recommendation of suitable candidates for prizes, scholps., dipls. and degrees.

INCOME (1958-59). \$2,451,365 (student fees, 24.6 per cent.; endowments, 18.7 per cent.; govt. grants, 35.4 per cent.; individuals, campaign receipts, foundations, etc., 21.3 per cent.).

FACULTIES AND DEANS. *Arts & sci.*, Prof. W. J. Archibald (phys.); *dent.*, Prof. J. D. McLean; *grad. studies*, Prof. C. L. Bennet (Engl.); *law*, Prof. H. E. Read; *med.*, Prof. C. B. Stewart (prev. med.). *Women*, Helen C. Reynolds.

LIBRARIES. Arts & sci.—110,700 books and bound periodicals; med. & dent.—27,000 books, journals and pamphlets; law—26,700 books and bound journals; nursing—1350. PUBLIC ARCHIVES OF NOVA SCOTIA, comprising MSS., newspapers, historical pictures and res. libraries.

LABORATORIES. Anat., biochem., biol., chem.,

engin., geol., histol., pathol., pharm., phys., physiol.

**INSTITUTE OF PUBLIC AFFAIRS**, in which profs. of the facs. of arts, law and med. co-operate. The res. carried out under its auspices is mainly concerned with problems of municipal govt. and social services. Associated with the inst. are the Dalhousie Bureau of Indust. Relns., the Dalhousie Labour-Univ. Cttee. and the Municipal Consulting Cttee.

**INSTITUTE OF OCEANOGRAPHY**, establd. with aid of grants from the Natnl. Res. Council of Canada (\$90,000 in 1959), provides courses leading to MSc and PhD.

**TEACHING HOSPITALS.** *Teaching units:* (a) Victoria General H., Halifax Children's H., Grace Maternity H., and affiliated hosps.; (b) St. John General H. and affiliated hosps. *Affiliated hosps.:* Camp Hill H., Halifax Inf., City of Sydney H., Aberdeen H., P.E.I.H., Victoria Pub. H., Moncton General H., St. John's General H.

**ADMISSION.** For admission to univ. courses in arts, sci., comm., engin., nursing, pharmacy, music, see Appendix II.

**LLB**--as for arts & sci. and completion of 3 full yrs.' work of a course leading to a BA, BSc or BCom degree; **MD CM**--as for arts & sci., and completion of the following 15 univ. classes: Engl. 1 and 2, maths. 1, chem. 1, 2, 4, phys. 1, biol. 1, zool. 2, hist. 1, four others from depts. of Engl., classics, hist., mod. langs., philos., psychol., econ., pol. sci. and maths., and one other from these depts. or from sci.; **DDS**--as for arts & sci., and completion of the following 10 univ. classes: Engl. 1, maths. 1, chem. 1, 2, 4, phys. 1, biol. 1, zool. 2, and two electives from classics, econ., Engl., hist., mod. langs., philos., pol. sci., psychol.

**FIRST DEGREES.** 4 yrs.—BA, BSc, BCom, BMus; BN—on completion of 15 univ. classes in fac. of arts & sci. plus clin. period of 30 mos. in hosp.; 3 yrs., following certain univ. classes—LLB; 4 yrs.—DDS; 5 yrs.—MD CM (taken together).

In addn. to the ord. course in arts & sci., there are hon. courses (also 4 yrs.) in: biol., chem., classics, econ. & sociol., Engl. lang. & lit., geol., hist., maths., mod. langs., philos., phys., pol. sci., psychol.

**HIGHER DEGREES.** **LLM:** candidates must hold LLB with high standing from Dal. or another approved law sch.; minimum of 1 yr.'s res. required. MA or MSc given on successful completion of 2-yr. course (minimum of 1 yr. for approved hon. grads.) by a BA or BSc of approved univ. for courses in bacteriol., biochem., biol. (bot. & zool.), chem., classics, econ., Engl. lang. & lit., French, geol., German, hist., maths., pathol., pharmacol., philos., phys., physiol., pol. sci., psychol. BEd is given on 1-yr. course, after BA, BSc or BCom. PhD (biol. scis., chem., oceanography and phys.) given on completion by BA or BSc of res. and approved course of at least 3 yrs.

**HONORARY DEGREE. LLD.**

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Engin., 3 yrs. (enables students to complete a degree course at N.S.T.C., McG., Qu., Tor. or certain other instns. after a further 2 yrs.); pharmacy, ordinary, 2 yrs.; educn., 2 and 3 yrs.; LicMus, 3 yrs.; nursing, 1 yr.; psychiatry, 3 yrs.; grad. dipl. in clin. psychol., 1 yr. following MA.

Music and pharmacy courses are taken in the affiliated instns., see above.

**STUDY LEAVE.** Sabbatical leave for study and res. is available to permanent full-time members of the teaching staff.

**FEES.** Tuition: arts or sci., \$340–\$364 p.a. for 5 subjects (lab. fees addnl., \$15–\$30 per subject); comm., for 5 subjects, \$340 p.a.; law, \$380 p.a.; med., \$500 p.a. for first 4 yrs., \$380 in final yr.; dent., \$450 p.a. incl. use of microscope and dental engine; dipl. course in engin., \$376–\$456 p.a. Other fees: incidental, \$44.50, lab. deposits when required, \$30 max.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** Grad. scholps. and teaching fellowships are open to selected hon. grads. of British and U.S. univs. Sp. fellowships in chem., phys. and Engl. Natnl. Res. Council offers postdoctorate fellowships in biol., chem. and phys. (one each).

**LOAN AND AID FUNDS** for students have been instituted.

**STUDENT RESIDENCES.** For women: Shirreff Hall, Halifax (tel.: 2-2545) (100 students); charges approx. \$550 per session. For men: Residence accomm. 185; charges approx. \$586 per session. Catering service for all students.

**STUDENTS' HEALTH SERVICE AND PHYSICAL TRAINING.** All new students are required to submit to med. exam. at beginning of session. The students' health service provides for this exam. and for med. services for minor ailments. A modern gymnasium and a rink, with artificial ice, provide adequate facilities for recreation and phys. trg.

**PUBLICATIONS.** *Calendar* (May); *Annual Report* (Aug.); *Gazette* (Oct.–March); *Dalhousie Review*, quarterly. *An Introduction to the History of Dalhousie* (McCurdy Printing Co., Halifax, 1938). See also 'Dalhousie University Press', below.

**DALHOUSIE UNIVERSITY PRESS** (founded 1957), through a cttee. and in conjunction with printers and other publishers, undertakes publicn. of works relating to the univ. Publicns. incl.: *George Munro, the Publisher* (1957) and *A Bibliographical Catalogue of the Works of Rudyard Kipling* (Dal. Univ. Press and Univ. of Tor. Press, Tor., 1959, \$20.00).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Sir James Dunn Foundation, \$818,444.

(Total value of *all* benefactions received, excluding govt. grants : \$1,276,130 approx.)

**RETIREMENTS.** Dr. J. S. Bagnall (dent.) ; Prof. A. K. Griffin (classics) ; Prof. C. Walmsley (maths.).

**RESIGNATIONS.** L. O. Clarke (law) ; Dr. G. H. Faulkner (dent.) ; Dr. N. H. Gosse (surg.) ; Mary W. Laurence (psychol.) ; Dr. E. A. Nugent (surg.) ; D. M. Nunn (law) ; B. Ruebner (pathol.) ; Dr. S. S. Shulman (anat.) ; Dr. J. J. Sidorov (anat.).

**DEATH.** Dr. V. O. Mader (surg.).

**HONORARY DEGREES.** *LLD*—F. H. Anderson, prof. of philos., Tor. ; A. R. Jewitt, principal & vice-chancellor, Bishop's ; Dorothy J. Killam, New York and Nassau ; Hon. V. P. Pottier, judge of county court for Halifax, and justice in admiralty for district of Nova Scotia.

**Statistics**

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1318	12
Women . . .	481	17
Total . . .	1799	29

Distribution by Faculties. *Arts & sci.*, 1293 ; *dent.*, 60 ; *grad. studies*, 123 ; *law*, 115 ; *med.*, 267 ; *nurs.*, 70.

*Included in the figures above are :—*

Postgraduate students, 123.

New admissions, 660.

Students from other countries, 191. (Countries from which largest numbers came : U.S.A., 61 ; W. Indies Fed. & Bermuda, 61).

**DEGREES AWARDED (1958-59).** *Arts* : BA (hons.), 3 ; BA, 50 ; MA, 9. *Comm.* : BCom, 23. *Dent.* : DDS, 19. *Educn.* : BEd, 26. *Law* : LLB, 58 ; LLM, nil. *Med.* : MD, 52. *Music* : BMus, nil. *Sci.* : BSc (hons.), 6 ; BSc, 28 ; BSc(EnginPhys), 2 ; BNSc, 1 ; MSc, 7. PhD, 1.

**DIPLOMAS AWARDED (1958-59).** *Educn.*, jr. dipl., 2 ; sr. dipl., 1 ; *engin.*, 17 ; *LicMus*, nil ; *pharm.*, 18 ; *pub. hlth. nurs.*, 16 ; *teach. & supervision in schs. of nursing*, 12. *Grad studies* : *clin. psychol.*, 2.

# UNIVERSITY OF KING'S COLLEGE\*

Founded 1789, Royal Charter 1802

*Postal Address* : Halifax, Nova Scotia, Canada

*Cables and Telegrams* : University of King's College, Halifax, Nova Scotia

*Telephone* : Halifax 3-7497

PATRON—THE ARCHBISHOP OF CANTERBURY

VISITOR—THE LORD BISHOP OF NOVA SCOTIA

CHAIRMAN OF THE BOARD OF GOVERNORS—Rt. Rev. R. H. WATERMAN, BA BD *Bishop's*, Hon. DD

CHANCELLOR—H. R. MILNER, QC, LLB *Dal.*, Hon. DCL *Mt. All.*, Hon. LLD *Alta. & Dal.*, BA Hon. DCnL

PRESIDENT AND VICE-CHANCELLOR—Rev. Canon H. L. PUXLEY, MA *Oxon. & Yale*, LTh DD *Trin. Coll. Tor.*

DEANS—DIVINITY—Rev. Canon H. L. PUXLEY, MA *Oxon. & Yale*, LTh DD *Trin. Coll. Tor.*; DEAN OF MEN—G. R. MACLEAN, MA PhD; DEAN OF WOMEN AND REGISTRAR—Mrs. WARRENA POWER, BSc *Dal.*

TREASURER—F. A. LANE

SECRETARY—MARJORIE S. MORROW

LIBRARIAN—H. S. GRANTER, BA *Dal.*, AM *Harv.*

BURSAR—C. FOX.

## TEACHING STAFF

### ARTS AND SCIENCE

(On King's Foundation, in association with Dalhousie University)

#### Classics

Atherton, J. P., MA *Oxon.*

Lectr.

#### Hebrew

Clarkson, Rev. Canon W. W., BSLitt

Lectr.

#### Economics and Sociology

Maxwell, W. R., BA *Dal.*, AM *Harv.*

Prof.

Uhlir, F., PhD *Prague*

Assoc. Prof.

#### History

Granter, H. S., BA *Dal.*, AM *Harv.*

Lectr.

#### Mathematics

Heighton, E. L., BSc MA *Dal.*

Asst. Prof.

#### English Language and Literature

Dawson, R. MacG., MA *Tor.*,

BLitt *Oxon.*

Asst. Prof.

Kinghorn, A. M., MA PhD *Aberd.*

Asst. Prof.

#### Psychology

Page, F. H., MA *Tor.*

Prof.

## DIVINITY

#### Church History

Hibbitts, Rev. J. B., MA *Dal.*, STM *General Theol. Sem. (N. Y.)*, DPhil *Oxon.*, BSLitt

Assoc. Prof.

Stone, Rev. C. W. F., BA BD

Assoc. Prof.

#### English Bible

Hibbitts, Rev. J. B., MA *Dal.*, STM *General Theol. Sem. (N. Y.)*, DPhil *Oxon.*, BSLitt

Assoc. Prof.

#### Greek Bible

Hibbitts, Rev. J. B., MA *Dal.*, STM *General Theol. Sem. (N. Y.)*, DPhil *Oxon.*, BSLitt

Assoc. Prof.

#### Dogmatic Theology

Woodhouse, Rev. H. F., BA HDipEd  
DD *Dub.*

Prof.

Clarkson, Rev. Canon W. W., BSLitt

Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Hebrew and New Testament Greek**

Clarkson, Rev. Canon W. W., BSLitt Lectr.

**Pastoralia**

Puxley, Rev. Canon H. L., MA Oxon. &amp; Yale, LTh DD Trin. Coll. Tor. Prof.

**Liturgics**

Stone, Rev. C. W. F., BA BD Assoc. Prof.

**Philosophy of Religion**Page, F. H., MA Tor. Sp. Lectr.  
Uhler, F., PhD Prague Sp. Lectr.**JOURNALISM**McCleave, R. J., BA LLB  
Chairman of Bd., Dir. of Studies  
Browne, W. Lectr.Casey, Mary Lectr.  
March, W. Lectr.**ADMINISTRATIVE AND OTHER STAFF**Public Relations Officer: P. R. Doig, BA  
BComm Dal. Asst. Librarian: Zaidee A. Harris.Supervisor of Domestic Staff: Mrs. Ethel M.  
Desborough.**ASSOCIATED AND AFFILIATED INSTITUTIONS**DALHOUSIE UNIVERSITY, *see* p. 168.

HALIFAX LADIES' COLLEGE, Halifax (tel.: 3-7920). Students who have completed the regular course and received the matric. dipl. are admitted to the arts or sci. course without further exam. Principal—Marion Dauphinee, BA.

HALIFAX SCHOOL OF JOURNALISM, Univ. of King's Coll., Halifax, N.S. (tel.: 3-7497). Dean—R. J. McCleave, BA LLB. The sch. is a jt. undertaking of Univ. of King's Coll., St. Mary's Univ., Mt. St. Vincent Coll., the Halifax *Chronicle-Herald* and radio station CJCH. The sch., which has its own bd. of governors with 2 reps.from each instn., grants a dipl. in journalism 3 yrs. after jr. matric. For staff, *see* above.

MARITIME SCHOOL OF SOCIAL WORK (tel.: Halifax 3-6907). Dir.—J. T. Hancock, MA Chc., BSW McG. Approved grads. of Univ. of King's Coll. and other recognized univs. who have completed 2 yrs.' professl. trg. at the sch. are granted the degree of master of social work (MSW) by Univ. of King's Coll.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. Students holding certain certs. of the coll. enter the 1st or 2nd yr. of the BA course at Dalhousie-King's. Principal—F. MacKinnon, BA McG., MA PhD Tor., LLD New Br.

**GENERAL INFORMATION**

Opened in 1789 at Windsor, N.S., the univ. was establd. by provincial statute and granted a royal charter by King George III in 1802. In 1923 King's removed to Halifax and became associated with Dalhousie Univ., as far as arts and sci. are concerned. The academic facilities in arts and sci. are shared by the students of both univs. for the time being, but King's retains complete control of her div. sch., as well as of her present endowments, admin. of residence and all internal matters. Under the terms of the agreement between Dalhousie and King's the univ. was re-establd. in Halifax by means of private subscriptions and with the financial aid of the Carnegie corporation, which endowed the teaching of liberal arts.

CONSTITUTION. The univ. is governed by a bd. consisting of the bishops of the dioceses of N.S. and Fredericton, the pres. and treasurer of the univ., *ex officio*, together with 10 members elected by the alumni assocn., 8 elected by the diocesan synods, and 4 co-opted by the bd.

INCOME. Total income (1957), \$205,700 (govt. grants, 5 per cent.; other grants (incl. diocesan), 10 per cent.; endowment, 44 per cent.; fees and residence charges, 41 per cent.).

FACULTIES AND DEANS, *see* p. 176.

LIBRARY. About 40,000 vols., 40 incunabula and a number of illuminated mediæval MSS. Particularly rich in books of 18th cent. Specializes in arts and div. Fine collection of united empire loyalist china.

ADMISSION. *See* Appendix II.

FIRST DEGREES (of Dalhousie Univ.). Courses (4 yrs.) provided for BA (pass, hons.), BSc (pass, hons.). A degree with hons. may be obtained in biol., chem., classics, econ. & sociol., English lang. & lit., geol., hist., maths., mod. langs., philos., phys., pol. sci., psychol.

HIGHER DEGREES (awarded by K.C.N.S.). BSLitt (bachelor of sacred letters), 3 yrs. after BA or BSc. MSW, 2 yrs. at Maritime Sch. of

Soc. Work (*see above*) after BA or BSc. BD, 3 yrs. after BA on recommendation of bd. of examiners of General Synod of Anglican Church of Canada.

Students wishing to read for MA or MSc must transfer to Dalhousie Univ.

HONORARY DEGREES. DD, DCL, DCnL.

DIPLOMAS, ETC. LTh, 3 yrs. after BA. 'Testamur in theol., 4 yrs. STh (scholar of theol.), on recommendation of bd. of examiners of General Synod of Anglican Church of Canada. AKC(NS), equivalent of 2 yrs.' postgrad. study after LTh or STh. Journalism, 3 yrs. at Halifax Sch. of Journalism (*see above*) from jr. matric.

FEES. Tuition, \$325-\$375 p.a. Residence, \$550 p.a.

ENTRANCE SCHOLARSHIPS. 7 foundation scholps. (\$800 each); 6 chancellor's scholps. (\$1600 each).

STUDENT RESIDENCES. For men: residence for 105 students; for women: Alexandra Hall (dean, Mrs. Warrena Power), 22 students.

MILITARY TRAINING. Canadian officers' trg. corps, univ. naval trg. div., royal Canadian air force div.

STUDENT HEALTH. Medical services in residence. *See also* Dalhousie Univ.

ATHLETICS. Facilities for men: ice hockey, basket-ball, soccer, curling, badminton. For women: ground hockey, basket-ball, badminton, volley-ball, skating, tennis.

PUBLICATIONS. *Calendar* (annual); *Record* (students year book); *Tidings* (alumni news), monthly Oct.-June.

## THE YEAR 1959

HONORARY DEGREES. DD—Rev. D. R. G. Owen, provost, Trin. Coll., Tor.; Rev. H. S. Shepherd, formerly missionary & teacher in Canadian north. DCL—M. F. Goudge, formerly chief, Industrial Mines div.

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	101	15
Women . . .	46	7
Total	147	

Distribution by Faculties and Schools. *Arts & sci.*, 131; *journalism*, 5 (incl. 5 also registered in arts); *theol.*, 16. Total: 147.

*Included in the figures above are:—*

Postgraduate students, 4.

New admissions, 57.

Students from other countries, 14. (Countries from which largest numbers came: U.S.A., 4; Bermuda, 3; Hong Kong, 2).

DEGREES AWARDED (1959-60). *By Dalhousie*. BA, 11; BSc, 2. *By King's*: MSW, nil; BD, 1.

DIPLOMAS AWARDED (1959-60). LTh, 7. AKC(NS), nil; journalism, nil.

# LAVAL UNIVERSITY\*

Founded 1852

Postal Address : Rue de l'Université, Quebec 4, P.Q., Canada

Cables and Telegrams : Laval University, Quebec

Telephones : LA 9-4511 ; MU 1-4631

ROYAL VISITOR AND CHANCELLOR APOSTOLIC—THE ROMAN CATHOLIC ARCHBISHOP OF QUEBEC, H.E.  
Mgr. M. ROY, OBE, DTh DPh

RECTOR MAGNIFICUS—Mgr. A. M. PARENT, DPh *Louvain*, Hon. LL.D. *Ott. & McG.*, PhD *St. Jos.*,  
DèsL *Poitiers*, DTh

VICE-RECTOR—Mgr. L.-A. VACHON, DTh DPh *Rome*

MODERATOR AND SECRETARY GENERAL—Mgr. J. GARNEAU, LPh LTh

TREASURER—Canon E. JOBIDON, BA

DIRECTOR OF STUDENTS—J. C. BOUFFARD, MCom

ASSISTANT SECRETARIES—P. E. GOSSELIN, LèsL LPh ; Rev. A. GRÉCO, BA ; Rev. J. M. BLANCHET  
BPh BBibl *C.U.A.*

LIBRARIAN—Rev. H. GAGNÉ, MA *Tor.*, LMS *Pontif. Inst., Tor.*, LTh

ARCHIVIST—Rev. A. MAHEUX, OBE, LèsL *Paris*, DTh MA

## TEACHING STAFF

### Actuarial Science

Picard, J. P.	Asst. Prof.	Proulx, M., BSA	Asst. Prof.
Pouliot, Y.	Instr.	Sirois, A., BSA	Asst. Prof.
Jutras, C.	Instr.	Villeneuve, G. O., BScApp MSc <i>N.Y.</i> , PhD <i>Yale</i>	Asst. Prof.
		Ouellette, G.-J., BSA PhD <i>Wis.</i>	Asst. Prof.
		Baril, R., BSA LSA <i>Montr.</i> , MSc <i>Corn.</i>	

### Administration, see also Comm.

Samson, M.	Prof.	Dessureaux, L., BSA MSc PhD <i>Wis.</i>	Asst. Prof.
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### Agriculture

Campagna, E., BSA DSc	Prof.	Choinière, L., BSA MSc	Asst. Prof.
Chevrette, J. E., BSA DSc <i>Corn.</i>	Prof.	Leblond, D., MSc <i>McG.</i>	Asst. Prof.
Diamant, Mgr. J., LPh LSc	Prof.	Raymond, R., BScP	Asst. Prof.
Gagné, C., BSA MSc <i>Corn.</i>	Prof.	Thiboutot, M., IF	Asst. Prof.
Jean F. X., MSc <i>Corn.</i> , LPh	Prof.	Lemay, J. P., LScAg <i>Montr.</i> , MSc <i>Amherst</i>	Asst. Prof.
Pineau, M.-A., LSc BScApp DSc <i>Montpellier</i>	Prof.	Fortin, J. M., MSA <i>Tor.</i>	Asst. Prof.
St.-Pierre, M., BSA DSc <i>Corn.</i>	Prof.	Caron, L., BA BSA	Instr.
Scott, A., MSA <i>Tor.</i>	Prof.	Delisle, R., BA IF	Instr.
Bérubé, L., BA BSA MScSoc	Prof.	Ducharme, L., BSA	Instr.
Alarie, A., BSA DSc <i>McG.</i>	Prof.	Gauthier, A., BSA	Instr.
Mailoux, A., BSA LSc <i>Montr.</i>	Prof.	Labrecque, P., BSA MSc <i>Ames</i>	Instr.
Bégin, P., BSA MSc <i>Wis.</i>	Asst. Prof.	Guimont, A., BSA	Instr.
Gauthier, G., BSA MSc <i>Corn.</i> , DScNat	Asst. Prof.	Beaudoin, R., LScCom <i>Montr.</i>	Instr.
	Asst. Prof.	Théberge, J.-M., BSA	Instr.
	Asst. Prof.	Bellavance, L., BScP	Instr.
	Asst. Prof.	Blais, P.	Instr.
	Asst. Prof.	Bourret, G., BScP	Instr.
	Asst. Prof.	Coulombe, L. J., DSc <i>McG.</i>	Instr.
	Asst. Prof.	Ferland, J., LSA	Instr.
	Asst. Prof.	Fougère, H., DSc <i>Montr.</i>	Instr.
	Asst. Prof.	Leblanc, G., BScP	Instr.
	Prof.	Leroux, A., MA <i>Col.</i> , BScP	Instr.

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Bérubé, L., BScP  
 Bonneau, A., BSA  
 Dumais, R., BSA MSc  
 Bélanger, R., BSA MSc  
 Ouellet, L., DSc *Mass*, BScP  
 Méthot, J., BSA  
 De Roy, J. M., BPh  
 Michaud, M. A.  
 Trudel, P., BSc *Montr.*  
 Forest, B., BSA  
 Daneau, M., MSc *Mass.*

**Anatomy**, see Medicine

### Apologetics

Drouin, M., LPh BTh  
 Tardif, Mgr. R.  
 Nadeau, Mgr. R., LPh DTh  
 Gay, P., LTh *Rome*

### Astronomy

Denis, B., LSc  
 Pouliot, E., AG

**Biochemistry**, see also Medicine

Bois, E., DSc *Frib.*  
 Jean, M., BA BScApp DSc  
 Lemonde, A., DSc

**Biology**, see also Medicine

Tremblay, J.-I., DipBiol *Stras.*, BScApp DSc  
 Bernard, R., BScApp MSc PhD *Corn.*  
 Corriveau, G. W., BSA DSc  
 Gagnon, A., LSc  
 Vandal, J. O., LSA  
 Filteau, G., BScApp DSc  
 Gauthier, G., BSA MSc *Corn.*, DScNat  
 Desmarais, Y., PhD *Wis.*, LSc  
 Richard, A., PhD *Corn.*  
 Labrie, J.-A., BScApp DSc  
 Pomerleau, R., BSA MSc *McG.*, DSc *Montr.*  
 Bourbeau, G., BPharm DSc  
 Duguay, J., MSc *Mich.*, AG IF  
 Malouin, R., BPh LTh BScApp

### Botany

Gagnon A., LSc

### Bridges

Dupuis, P. A., BScApp *Montr.*  
 Martin, L., BScApp *Montr.*

### Canadian Literature

Bégin, E., LèsL  
 Lacourcière, L., LèsL

### Cartography

Barrette, G., AG IF

### Chemistry

Instr. Cloutier, L., BScApp DSc *Lille*  
 Instr. Gagné, A., LSc  
 Instr. Gagnon, P.-E., DIC, BScApp DSc *Paris*, DPh  
 Instr. Giguère, P.-A., PhD *McG.*, BScApp  
 Instr. Gravel, L., BScApp DSc  
 Instr. Ouellet, C., BScApp DSc *Zür.*  
 Instr. L'Écuyer, P., BSc DPhil *Oxon.*, BScApp  
 Instr. Risi, J., DSc *Frib.*  
 Instr. Amiot, L. P., DSc  
 Instr. Ménard, J.-A., LSc  
 Instr. Engel, C., DSc *Zür.*  
 Instr. Nadeau, G., PhD  
 Instr. Filteau, G., MSc  
 Instr. Herman, J. A., DSc *Louvain*

Prof.  
 Prof.  
 Prof.  
 Prof.

### City Management

Dorion, R., BScApp *Montr.*

Asst. Prof

### Commerce

Prof. Irénée, Br., BSc (Accty.) Prof.  
 Prof. Bruneau, P., LScCom (Admin.) Prof.  
 Lebel, P., LLL (Econ. & Law) Prof.  
 Alfred, Fr., DStat *Boston*, LScCom (Maths.) Prof.  
 Guimont, P.-H., AM *Harv.*, LScCom (Econ. & Finance) Prof.  
 Siméon, Br., LScCom (Accty. & Maths.) Prof.  
 Bélanger, M., MScEcon *Harv.*, LScCom Prof.  
 Godbout, G., LScCom (Admin.) Asst. Prof.  
 Laurent, E., LLL LPh (Admin.) Asst. Prof.  
 Bertrand, D., MScCom (Econ.) Asst. Prof.  
 Breton, R., LScCom (Finance) Asst. Prof.  
 Guimont, J. P., BScCom (Finance) Asst. Prof.  
 Bilodeau, C., LLL (Philos. & Sociol.) Asst. Prof.  
 Audet, P., BA (Econ.) Asst. Prof.  
 Hormidas, Br., BPéd LPh Asst. Prof.  
 Labrècque, Br., MA *St.Louis*, BScCom BPéd Asst. Prof.  
 Amyot, R., MBA *Harv.*, LLL Asst. Prof.  
 McGoldrick, R., MScR Asst. Prof.  
 Roland, E. Asst. Prof.  
 Boulet, A., LScCom (Accty.) Instr.  
 Clément, H. (Finance) Instr.  
 Leclerc, C. E., LLL (Law) Instr.  
 Morin, W., LLL (Law) Instr.  
 Bouchard, P., LLL Instr.  
 Pelletier, H., LLL Instr.  
 Gagnon, C., LLL Instr.  
 Giroux, G., MScCom Instr.  
 Taschereau, J., LLL Instr.  
 De Coster, R., MScCom Instr.  
 Theodose, Br., MA Instr.  
 Flynn, J., LLL Instr.  
 Côté, P., LLL Instr.  
 Després, R., LScCom Instr.  
 Duchaine, L. P., MScCom Instr.  
 Corriveau, C., MSoc Instr.  
 Claude, Br., MScCom *Chic.* Instr.  
 Turcotte, M., MScSoc Instr.  
 Nivard, Br., BPéd Instr.  
 Grondin, G., BScCom Instr.

Lafrance, G., DiplActuarialMaths *Edin.*,  
LScCom *Montr.*  
Quellet, F., LèsL  
Bisson, A., MBA *Harv.*, MScCom  
Liberté, M., MScCom  
Picard, L., LPh LSc  
Riverin, A., MScSoc MScCom

Joncas, L., BScApp IC *Montr.*, AG  
Instr. Tordion, G. V., IMéc *Zür.*  
Instr. Nicholl, C. I. H., DSc *Tor.*  
Instr. Bouillon, G., BEng *McG.*  
Instr. Bull, G.  
Instr. Dubé, A., DSc *CarnegieTech.Inst.*  
Instr. Schlader, A. F., PhD *Vienna*  
Bertrand, G., IMéc *McG.*

Prof.  
Prof.  
Asst. Prof.  
Instr.  
Instr.  
Instr.  
Instr.  
Instr.

**Dentistry, see Medicine**

## Drawing (Mechanical)

Giroux, L., BScApp *Montr.*  
Paré, C.  
St.-Arnaud, R.

Asst. Prof.  
Instr.  
Instr.

## Ecology

Rousseau, L. Z., AG IF  
Desmarais, Y., PhD Wis., LSc

Prof.  
Prof.

**Economics**, see also Comm. and Soc. Sciences

Wilson, J. O., MA DiplFor Oxon.      Asst. Prof.

## Education

Miville, R., BA LPh LPsych Montr.	Prof.
Tremblay, A., MAEd Harv., LScSoc	Prof.
Lockquell, C., DPh BPéd	Prof.
L'Archevêque, P., DPéd Montr.	Prof.
Deschamps, P., LPéd	Prof.
Lauzon, M., LTh LDC LScSoc	Prof.
Barbeau, M., LèSL	Prof.
Joly, R., LPh MA Ott.	(on leave) Prof.
Audet, L.-P., DPéd LSc	Asst. Prof.
Samson, H., PhD Wash., MD	Asst. Prof.
Duval, R., LOr	Asst. Prof.
Bergeron, G.-A., MD	Instr.
Bilodeau, C., LLI	Instr.
Cantin, S., DPh	Instr.
Label, M., BA Oxon., DèsL	Instr.
Gauthier, A., LPh DPéd Montr., LSc	Instr.
Plante, J. M., BPéd	Instr.
Hector, Br., BPéd BPh	Instr.
Laliberté, Marie-Paule, LScSoc	Instr.
Moreault, L., LPsych Montr.	Instr.
Maranda, R., BScSoc BOR	Instr.
Dehise, G.	Instr.
Chéné, H., LOr	Instr.
Raymond, J. M., LPh LPsych	Instr.
Lessard, J. C., LPsych Montr.	Instr.
Ruel, P. H., LPéd	Instr.
Meunier, M., LPsych Montr.	Instr.
Turcotte, Marcelle, LPéd	Instr.
Thibodeau, Mme. Marcelle, LSc	Instr.
Dumais, Louise, MServSoc	Instr.
Slater, E., LOr	Instr.
Arcand, G., LHyg Montr.	Instr.
Massicotte, J. P., MScCom	Instr.
Perron, L., LSA Montr.	Instr.
Trottier, A., LPéd LOr	Instr.
Lapointe, R. E., DPsvch	Instr.

## Engineering

Massé, A., AG IF Prof

Joncas, L., BScApp IC *Montr.*, AG  
Tordion, G. V., IMéc *Zür.*  
Nicholl, C. I. H., DSc *Tor.*  
Bouillon, G., BEng *McG.*  
Bull, G.  
Dubé, A., DSc *CarnegieTech.Inst.*  
Schlader, A. F., PhD *Vienna*  
Bertrand, G., IMéc *McG.*

## Engineering, Chemical

Cholette, A., BScApp *McG.*, MSc  
PhD *M.I.T.*  
Grenier, P., BScApp MSc  
Cloutier, L., BScApp

Prof.  
Prof.  
Asst. Prof.

## Engineering, Electrical

Boulet, L., BScApp MSc  
Wildi, T., BScApp  
Boisvert, M., BScApp  
Robert, J., DSc *Nancy*  
Gumowski, I., MSc

Prof.  
Prof.  
Asst. Prof.  
Asst. Prof.  
Instr.

## Engineering, Mechanical

Goodspeed, F., PhD *Camb.*  
Michel, B., BScApp

Asst. Prof.  
Instr.

## English

Abel, G., BA  
Robert, G., BA BTh  
Mackey, W., MA  
Porter, E., AG IF  
Lesage, J., BA  
Mullins, S., MA *Tor.*

Prof.  
Prof.  
Prof.  
Asst. Prof.  
Asst. Prof.  
Asst. Prof.

## Entomology

Maheux, G., DèSc Montr., MA LSA IF Prof.  
Daviault, L., LSA DSc Montr., MSc McG.  
Asst. Prof.

**Finance**, see Comm.

## Folklore

Lacourcière, L., LèsL BA  
Savard, Mgr. F.-A., BA  
Ferland, Mrs. Philippe, MA

Prof.  
Prof.  
Asst. Prof.

## Forestry

Bourget, M. A., AG IF	Prof.
Lussier, O., LLL IF DScFor	Prof.
Rousseau, L. Z., AG IF	Prof.
Richard, A., MSc PhD <i>Corn.</i> , IF	Prof.
Bernier, G.-H., AG IF	Asst. Prof.
Pomerleau, R., BSA MSc <i>McG.</i> , DSc	Asst. Prof.
Wilson, J. O., MA DiplFor <i>Oxon.</i>	Asst. Prof.
Barrette, G., BArp IF	Asst. Prof.
Deschamps, R., BArp IF	Asst. Prof.
Lamothe, G., BScApp IC	Asst. Prof.
Duguay, J., MFor <i>Mich.</i>	Asst. Prof.
Linteau, A., MScFor <i>Yale</i> , IF	Asst. Prof.
Iafond, A., PhD <i>Wis.</i> , IF	Asst. Prof.
Chouinard, L., PhD <i>Wis.</i>	Asst. Prof.
Bousquet, P., BScApp <i>Montr.</i>	Instr.
Cimon, J., MSoc	Instr.



Gosselin, R., MA PhD <i>Harv.</i> , IF	Prof.	Albert, G., DTh <i>Rome</i>	Prof.
Denis, B., LSc	Prof.	Babin, E., DPh <i>Notre Dame</i>	Prof.
Deslauriers, C. E., BScApp	Prof.	Simard, E., DPh <i>LèsL</i>	Prof.
Bonneau, L. P., BScApp	Prof.	Trépanier, E., DPh <i>Paris</i>	Prof.
Duprat, J., MA <i>Tor.</i>	Prof.	Baillargeon, C.	Prof.
Porter, E., AG IF	Asst. Prof.	De Monléon, J., LLL <i>Aix-Marseilles</i> ,	
Giroux, L., IC <i>Montr.</i>	Asst. Prof.	LèsL DPh <i>Paris</i>	Asst. Prof.
Beaupré, A., BScApp	Asst. Prof.	Dionne, Mgr. M., LPh LTh	Asst. Prof.
Bisaillon, G., BScApp	Asst. Prof.	Drouin, M. J., LTh LPh	Asst. Prof.
Kueger, A., BScApp	Asst. Prof.	Drouin, P. E., LPh DTh	Asst. Prof.
Boisvert, M., MSc <i>N.S.T.C.</i>	Asst. Prof.	Leduc, P., LPh	Asst. Prof.
Bégin, R.	Instr.	Nolin, Mgr. R., LPh	Asst. Prof.
Letnay, F., BScApp	Instr.	Blanchet, L. E., MSc <i>Notre Dame</i> , LPh	
		LTh	Asst. Prof.
<b>Medicine</b> , see below		Labrie, R., DPh	Asst. Prof.
		Côté, A., LPh	Instr.
<b>Meteorology</b>		St.-Jacques, A., LPh	Instr.
Bellefeuille, R., BA <i>IP LSc</i>	Prof.	<b>Phonetics</b>	
		Ferland, Mme. Philippe, MA	Asst. Prof.
<b>Mining and Metallurgy</b>		<b>Physics</b>	
Letendre, G., BEng <i>McG.</i> , PhD <i>Lond.</i>	Prof.	Benoît, R., LPh LTh LDC	Prof.
Archambault, M., IC DSc <i>Montr.</i>	Prof.	Kœnig, H. P., DSc <i>M.I.T.</i>	Prof.
Rover, M., BScApp IC <i>Montr.</i> , BSc <i>M.I.T.</i>	Prof.	Osborne, E. F., BScApp MSc PhD <i>Yale</i>	Prof.
Waddington, G. W., BScApp <i>Br.Col.</i>	Prof.	Joncas, I., BScApp IC AG	Prof.
Walsh, B. J., BSc <i>Qu.</i>	Prof.	Boivin, A., BScApp MSc	Prof.
Potvin, R., BScApp IC <i>Montr.</i> , BSc <i>M.I.T.</i>	Prof.	Bonenfant, F., BScApp MSc	Prof.
Garneau, J. B., FCIC	Asst. Prof.	Geoffrion, C., BScApp MSc	Prof.
Sabourin, R., DSc	Asst. Prof.	Hall, G., BScApp MSc	Prof.
Classe, F., BScApp DSc	Instr.	Kerwin, L., BScApp DSc	Prof.
		Darling, B. T., MSc <i>Ill.</i> , PhD <i>Mich.</i>	Prof.
<b>Modern Languages</b>		Lansraux, G., DSc <i>Paris</i>	Prof.
Pattee, R., MA <i>C.U.A.</i>	Prof.	Frémont, C., MSc	Asst. Prof.
Soldevila, I., LPh-L <i>Madrid</i>	Instr.	Nadeau, G., BScApp	Asst. Prof.
		Huot, J. H., MSc	Asst. Prof.
<b>Music</b> , see also Gregorian Chant		Chassé, Y., BScApp	Instr.
Gagnon, H.	Prof.	Godin, G., MSc <i>McG.</i>	Instr.
Destroismaisons, L., BA	Prof.	<b>Physiology</b> , see Medicine, below	
Lapointe, C., BMus	Prof.	<b>Religion</b>	
Vallières, H.	Prof.	Drouin, M., LPh	Prof.
Pouhot, O.	Prof.	Leclerc, Mgr. C., LèsL	Prof.
Turgeon, J., BA	Prof.	St.-Hubert, Sr.	Prof.
Cavouette, M.	Prof.	Foucault, E.	Asst. Prof.
Letarte, M., BA	Asst. Prof.	Goupil, Canon J. P.	Asst. Prof.
Mercure, H.	Asst. Prof.	Hadd, P. E., DTh	Asst. Prof.
Gravel, L.	Asst. Prof.	Hamelin, A.	Asst. Prof.
St-Hilaire, A.	Asst. Prof.	St.-Amand, L.	Asst. Prof.
Klimoff, C.	Asst. Prof.	Poulin, E.	Asst. Prof.
Brassard, F. J.	Asst. Prof.	Marie-de-la-Charité, Sr.	Asst. Prof.
Fortier, E.	Asst. Prof.	Madeline-de-la-Résurrection, Sr.	Asst. Prof.
Landry, Jeanne, BMus	Asst. Prof.	Galarneau, J.	Asst. Prof.
Bussièrès, J.-M.	Instr.	Gregoire, L.	Asst. Prof.
Darisse, G., BMus <i>Roch.</i>	Instr.	Guerard, D.	Asst. Prof.
Letourneau, P.	Instr.	Pichette, Canon H., LScSoc DTh	Instr.
Martel, J., BMus	Instr.		
Tessier, C.	Instr.		
		<b>Social Sciences</b>	
<b>Philosophy</b>		Lévesque, G. H., LTh DipScSocPol <i>Lille</i>	(Econ.) Prof.
de Koninck, C., DPh <i>Louvain</i>	Prof.	Guimont, P. H., LScCom AM <i>Harv.</i>	(Econ. & Finance) Prof.
Parent, Mgr. A. M., DPh <i>Louvain</i> , Hon.		Lebel, P., LLL	(Econ.) Prof.
LLD <i>Ott. &amp; McG.</i> , PhD <i>St.Jos.</i> ,			
DèsL <i>Poitiers</i> , DTh	Prof.		
Gaudron, E., DPh <i>Louvain</i>	Prof.		
Cantin, S., DPh	Prof.		

Leblond, W., MD (Hyg.) Prof.  
 Bussière, E., LScSoc (Econ. & Educn.) Prof.  
 Martin, J. M., LSA *Montr.*, MSA *Corn.* Prof.  
 Dion, G., LTh LPh LScSoc Prof.  
 Falardeau, J. C., LScSoc LPh

(Sociol. & Soc. Res.) Prof.

Tremblay, M., AM *Harv.*, LScSoc (Sociol.) Prof.

Tremblay, G., LPh Prof.

Faucher, A., MA *Tor.*, LScSoc Prof.

Bélanger, G., LTh LScSoc *C.U.A.* Prof.

Denault, Miss Hayda, MServSoc Prof.

Paré, Simone, LScSoc Prof.

Beaulieu, M. L., LLD Phl. Prof.

Poznanski, T., DSc *Berne* Asst. Prof.

Thibault, M. A., MScSoc Asst. Prof.

Dion, I., MScSoc Asst. Prof.

Guay, E., MScSoc Asst. Prof.

Gosselin, E., MA(Econ) *Tor.* Asst. Prof.

Leblanc, N., MScA Asst. Prof.

Bergeron, G., MScSoc Asst. Prof.

Hodgson, J., MScSoc Asst. Prof.

Tremblay, R., MScSoc Asst. Prof.

Lemelin, C., PhD *Harv.*, BSA Asst. Prof.

Dubé, Y., BScApp Asst. Prof.

Guay, G. D., PhD Asst. Prof.

Tremblay, A., LSA *Montr.*, PhD *Corn.*

Asst. Prof.

Laliberté, M. P., BA Instr.

Trottier, M., LPh Instr.

Chartier, R., MScSoc Instr.

Delage, J., MD Instr.

Boucher, B., MD Instr.

Girard, L., LPh Instr.

Poirier, G., BSocServ Instr.

St.-Laurent, J., MScSoc Instr.

Bergeron, M., LLL Instr.

De Passillé, F., LScSoc LScCom *Montr.* Instr.

Lavallée, P., LScSoc Instr.

Martin, Y., MScSoc Instr.

Morin, C., MSocW *Col.* Instr.

### Surveying

Joncas, L., BScApp IC *Montr.*, AG Prof.

Guay, F., AG IF Asst. Prof.

### Theology, see below

### Transportation

St.-Jacques, J., BScApp Asst. Prof.

Rioux, R., BScApp Asst. Prof.

Marchand, L. Asst. Prof.

## LAW

### Administrative and Constitutional Law

Pigeon, L.-P., LLL Prof.

Cimon, A., LLL Instr.

Desgagné, A., LLD *Paris* Instr.

### Aviation Law

Morin, Judge W., LLL Prof.

### Bibliography

Lortie, L., LLL Asst. Prof.

### Civil Law

Hudon, G., LLL Prof.

Turgeon, J., LLL Prof.

Gagné, M., LLL Prof.

Leahy, J., LLL Instr.

De Billy, J., LLL Instr.

### Commercial and Maritime Law

Pratte, Y., LLL Asst. Prof.

Bard, S., LLL Instr.

Chouinard, J., LLL Instr.

### Criminal Law

Lacroix, Judge G., LPh LLL Prof.

Dumontier, A., LLL Instr.

### Ethics

Pouliot, L. A., LLD Instr.

### Industrial Legislation

Parent, S. G., LLD Asst. Prof.

### International Law

Patry, A., LScSoc Asst. Prof.

### Municipal and Educational Law

Prévost, Hon. Y., LLL Prof.

### Parish Law

Giroux, G.-M., LLD LPh Prof.

### Procedure, Civil

Lemay, Judge G., LLL Prof.

Rivard, Hon. A., LLL Prof.

Turgeon, H., LLL Prof.

Alley, Judge R., LLL Prof.

Gosselin, E., LLL Prof.

Labrègue, A., LLL Prof.

Dorion, N., LLL Asst. Prof.

Doucet, J. L., LLL Asst. Prof.

Letarte, P., LLL Asst. Prof.

Thibaudeau, R., LLL Asst. Prof.

Demers, D., LLL Asst. Prof.

Taschereau, J., LLL Asst. Prof.

Turgeon, P. P., LLL Asst. Prof.

Marceau, L., LLD *Paris* Asst. Prof.

Rivard, E., LLD Instr.

Grenier, R., LLL Instr.

Gouin, G. H., LLL Instr.

Lemieux, A., LLL Instr.

Beauregard, P., LLL Instr.

Bernier, J. J., LLL Instr.

Fortier, T., LLL Instr.

Cossette, A., LLL Instr.

### Roman Law

Bonenfant, J. C., BA LLL Prof.

### Taxation Law

Letourneau, R., LLL Prof.

**MEDICINE****Adaptation (Experimental Physiology)**

Fiset, P.-E.

Instr.

**Anæsthesia**

Hudon, F., MD  
 Jacques, A., MD  
 Paquet, A., MD  
 Plamondon, M., MD  
 Dechêne, J. P., MD  
 Allard, E., MD  
 Rinfret, L., MD  
 Duchesne, R., MD  
 Galibois, P., MD

Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Instr.  
 Instr.  
 Asst.  
 Asst.  
 Asst.

**Anatomy**

Jobin, P., MD  
 Caron, W., MD  
 Lenneux, J.-M., MD  
 Laroche, J.-L., MD  
 Turcot, J., MD  
 Drouin, J. P., MD  
 Gagnon, P., MD  
 Mercier, A., MD  
 Royer, L., MD  
 Marceau, G., MD  
 Lamoignon, J., MD

Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.  
 Instr.

**Bacteriology**

Gauvreau, L., MD

Prof.

**Biochemistry**

Gingras, Rosaire, MD  
 Martel, F., DSc  
 Lemonde, A., DSc  
 Belleau, B., MSc *Montr.*, PhD *McG.*

Prof.  
 Asst. Prof.  
 Asst.  
 Asst.

**Biology**

Giroux, M., MD  
 Potvin, A. R., MD  
 Leblond, W., MD  
 Gagnon, A., BScApp

Prof.  
 Prof.  
 Prof.  
 Instr.

**Chemistry**

Marcoux, H., MD  
 Berlinguet, L., DSc  
 Loisele, J. M., MD

Prof.  
 Asst. Prof.  
 Asst.

**Demography**

Parrot, P., MD

Instr.

**Dentistry**

Hamel, J., DDent  
 Langlois, R., DDent

Instr.  
 Instr.

**Deontology and Medical Economics**

Gauthier, C. A., MD

Prof.

**Dermatology**

Gaumond, E., MD

Prof.

Beaudry, M., MD  
 Grandbois, J., MD  
 Therrien, R., MD

Asst. Prof.  
 Asst. Prof.  
 Asst.

**Dietetics**

Nadeau, H., MD

Prof.

**Electrotherapy**

Lapointe, H., MD  
 Samson, M., MD  
 Payeur, L.-R., MD

Prof.  
 Prof.  
 Asst. Prof.

**Endocrinology**

Martel, A., MD

Prof.

**Gynæcology**

Garant, O., MD  
 Simard, R., MD  
 Demers, F. X., MD  
 de St.-Victor, J., MD  
 Reid, L., MD  
 Guimont, V., MD  
 Rochette, P., MD  
 Marchand, R., MD  
 Beaulieu, E., MD  
 Claveau, R., MD  
 Lemieux, E., MD  
 Savard, L., MD  
 Caouette, M., MD  
 St.-Arnaud, G., MD  
 Brault, R., MD  
 Duchaine, P., MD  
 Fortin, P. E., MD  
 Allen, L. P., MD

Prof.  
 Prof.  
 Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst.  
 Asst.  
 Asst.  
 Asst.  
 Asst.  
 Asst.  
 Asst.  
 Asst.  
 Asst.  
 Asst.  
 Asst.

**Hygiene**

Grégoire, J., DPH *Johns H.*, MD *Montr.*  
 Foley, A. R., DPH *Johns H.*, MD  
 Sylvestre, J. E., DPH *Tor.*, MD  
 Fontaine, L., BScApp  
 Bellemare, B., MD  
 Claveau, P., MD  
 Gilbert, J., DPH *Tor.*, MD

Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Instr.  
 Instr.

**Legal Medicine**

Desrochers, G., MD  
 Martin, C. A., MD

Prof.  
 Asst. Prof.

**Materia Medica**

Lessard, R., MD  
 Claveau, R., BPharm  
 Marquis, J. C., BPharm

Prof.  
 Asst. Prof.  
 Instr.

**Medical History**

Leblond, S., MD  
 Boucher, B., MD

Prof.  
 Instr.

**Medicine, Clinical**

Caron, S., MD  
 Desmeules, R., MD  
 Desrochers, G., MD

Prof.  
 Prof.  
 Prof.

## CANADA

Jobin, J.-B., MD  
 Laliberté, H., MD  
 Leblond, S., MD  
 Lemieux, R., MD  
 Lessard, R., MD  
 Nadeau, H., MD  
 Paquet, B., MD  
 Larochelle, L. N., MD  
 Martel, A., MD  
 Rousseau, L., MD  
 Drouin, G., MD  
 Dugal, J. P., MD  
 Larue, G. H., MD  
 Patry, L., MD  
 Richard, P., MD  
 Blais, A., MD  
 Delage, J., MD  
 Rouleau, Y., MD  
 Dunne, R., MD  
 Potvin, R., MD  
 Brunet, J., MD  
 Grégoire, C., MD  
 Bertrand, G., MD  
 Samson, M., MD  
 Beaudoin, J., MD  
 Marois, A., MD

**Mental and Nervous Diseases**

Caron, S., MD  
 Desrochers, G., MD  
 Larue, L., MD  
 Gauthier, C. A., MD  
 Painchaud, C. A., MD  
 Pelletier, A., MD  
 Sirois, J., MD  
 Bourgoin, L., MD  
 Labrecque, J. E., MD

**Nutrition**

Babineau, L.-M., BScApp

**Ophthalmology**

Lacerte, J., MD  
 Audet, J., MD  
 Pelletier, J. E., MD  
 Boulanger, J.  
 Plamondon, M., MD

**Orthopedics**

Roger, J.-P., MD  
 Roy, L.-P., MD  
 Lessard, J. M., MD  
 Royer, M., MD  
 Pagé, R., MD

**Oto-Rhino-Laryngology**

Painchaud, P., MD  
 Letarte, F., MD  
 Larochelle, P., MD  
 Pelletier, E., MD  
 Hallé, J., MD  
 Frenette, O., MD  
 Maranda, E., MD

Prof. Fugère, P., MD  
 Prof. Caux, M., MD  
 Prof. Moreau, A., MD  
 Prof. Lavoie, R., MD

**Pædiatrics**

Prof. Langlois, M., MD  
 Prof. Lapointe, D., MD  
 Prof. Fortier, de la Broquerie, MD  
 Prof. Dechêne, E., MD  
 Asst. Prof. Larue, A., MD  
 Asst. Prof. Thibaudreau, R., MD  
 Asst. Richard, M., MD  
 Asst. Turcot, R., MD

**Pathology, General**

Asst. Auger, C., MD  
 Asst. Bonenfant, J. L., MD  
 Asst. Genest, P., MD  
 Asst. Gagné, F., MD  
 Asst. Garneau, R., MD  
 Asst. Jean, C., MD

**Pathology, Medical**

Asst. Paquet, B., MD  
 Asst. Larochelle, L. N., MD  
 Asst. Rousseau, L., MD  
 Asst. Morn, E., MD  
 Asst. Drouin, G., MD  
 Asst. Tétrault, A., MD  
 Asst. Lapointe, G., MD  
 Asst. Fortier, J., MD  
 Asst. Caouette, R., MD  
 Asst. Guay, M., MD  
 Asst. Jobin, J., MD  
 Asst. Dorval, C. H., MD  
 Asst. Rousseau, J., MD  
 Asst. Boudreault, G., MD  
 Asst. Lemieux, H., MD  
 Asst. Saucier, R., MD  
 Asst. Bélanger, M., MD  
 Asst. Bruncau, J., MD  
 Asst. Devarences, P., MD  
 Asst. Lachance, W., MD  
 Asst. Samson, M., MD  
 Asst. Saulnier, G., MD  
 Asst. Lemieux, J., MD  
 Asst. Montminy, L., MD  
 Asst. Dion, R., MD  
 Asst. Groulx, G., MD  
 Asst. Delage, M., MD  
 Asst. Plamondon, C., MD

**Pharmacy**

Marquis, A., BPharm  
 Cliche, E., DPharm *Paris*  
 Bourbeau, G., LSc BPharm  
 Demers, L. P., BPharm  
 Boissinot, A., BPharm

**Phth'siology**

Desmeules, R., MD

Asst.  
 Asst.  
 Asst.  
 Asst.

Prof.  
 Prof.  
 Prof.  
 Asst. Prof.  
 Asst.  
 Asst.  
 Asst.  
 Asst.

Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Instr.  
 Instr.  
 Instr.

Prof.  
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 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
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 Asst.  
 Asst.

Prof.  
 Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Instr.

Prof.

**Physiology, see also Adaptation**

Blanchet, R., MD  
Bergeron, G. A., MD  
Gagnon, A., BScApp

**Physiotherapy**

Gaumont, E., MD  
Samson, M., MD  
Paveur, L.-R., MD

**Radiology**

Potvin, A. R., MD  
Lessard, R., MD  
Payeur, L.-R., MD  
Lessard, R., MD  
Bennet, J. P., DSc

**Surgery, Clinical**

Poliquin, P. A., MD  
Roy, F., MD  
Trempe, F., MD  
Auger, G., MD  
Lavergne, N., MD  
Lemieux, J. M., MD  
Roger, J. P., MD  
Verreault, J. E., MD  
Pettigrew, A., MD  
Samson, E., MD  
Caron, W., MD  
Turcotte, J., MD  
Cauchon, R., MD  
Denoncourt, J. A., MD  
Gagnon, G., MD  
Simard, E., MD  
Giguère, A., MD  
Leclerc, L. P., MD  
Beaudry, E., MD  
Brisson, F. X., MD  
Gauthier, G. T., MD  
Laperrière, V., MD  
Simard, L. P., MD  
Montel, G., MD  
Gravel, A. J., MD  
Beaudet, H., MD  
Jolicœur, A., MD  
Tremblay, G. W., MD  
Tremblay, G., MD  
Beaulieu, M., MD  
Marcoux, G., MD  
Reinhardt, G. H., MD  
Labbé, P., MD

**Therapeutics**

Prof. Lessard, R., MD *Paris & Laval*  
Prof. Delage, J. M., MD  
Instr. Côté, R., MD

Prof.  
Instr.  
Instr.

**Urology**

Prof. Bédard, A., MD  
Prof. Gourdeau, Y., MD  
Asst. Prof. Fisher, J. G., MD  
Coulonval, L., MD

Asst. Prof.  
Instr.  
Asst.  
Asst.

**Workmen's Accident Law**

Prof.  
Prof.  
Asst. Prof. Leclerc, A., MD  
Instr.  
Instr.

Asst. Prof.

**THEOLOGY**

Vandry, Mgr. F., CMG, LPh DTh

(Dogmatic T.) Prof.

Lemieux, Mgr. E., LPh DTh

(Ascetical T. & Liturgy) Prof.

Prof.	Petit, Mgr. G., DDC	Prof.
Prof.	Mathieu, A., DTh	Prof.
Asst. Prof.	Lacouline, P., DTh	Assoc. Prof.
Asst. Prof.	Dionne, Mgr. M., LPh LTh	Assoc. Prof.
Asst. Prof.	Roy, L., LPh DTh <i>Rome</i>	Asst. Prof.
Asst. Prof.	Noël, L., DTh <i>Rome</i>	Asst. Prof.
Asst. Prof.	Beaumont, H., BPh LTh DDC <i>Rome</i>	Asst. Prof.
Asst. Prof.	Crépeault, Canon P.-E., DTh DPh <i>Rome</i>	Asst. Prof.
Asst. Prof.	Gagné, H., PhD <i>Tor.</i> , LTh	Asst. Prof.
Asst. Prof.	Vachon, Mgr. L.-A., DTh <i>Rome</i> , LPh	Asst. Prof.
Asst. Prof.	Beaudet, R., LTh LSS <i>Rome</i>	Instr.
Asst. Prof.	Fortier, E., BTh	Instr.
Asst.	de Koninck, C., DPh <i>Louvain</i>	Instr.
Asst.	Morisset, B., LTh	Instr.
Asst.	Ibranyi, Mgr. F., DPh DTh	Instr.
Asst.	Fortier, J. M., LHist <i>Rome</i> , LTh	Instr.
Asst.	Doyon, R., LTh LPh BScSoc	Instr.
Asst.	Roy, Y., LPh DTh <i>Rome</i>	Instr.
Asst.	Adam, R., LTh DDC	Instr.
Asst.	Lachance, J.-M., LTh LPh LPsych <i>Montr.</i>	Instr.
Asst.	Fortin, B., BPh LTh LArchæol <i>Rome</i>	Instr.
Asst.	Moreault, P., DTh LSS <i>Rome</i>	Instr.
Asst.	Brochu, J.-M., BA	Instr.
Asst.	Morand, L., LPh DTh <i>Rome</i>	Instr.
Asst.	De Monléon, J., LLL <i>Aix-Marseilles</i> ,	
Asst.	LèsL DPh <i>Paris</i>	Instr.
Asst.	La Flamme, R., LPh LTh	Instr.
Asst.	Marchosky, H., LTh LPh	Instr.
Asst.	Vennes, G., DTh	Instr.

**ADMINISTRATIVE AND OTHER STAFF**

Chaplains: A. Jobin LTh; M. J. Drouin, LTh LPh; L. E. Blanchet, LTh LPh. Dir. of

Health Service: P. Jobin, MD. Dir. of Univ. Press: A. M. Parent, DTh DPh.

**AFFILIATED INSTITUTIONS**

*Affiliation* or, in the case of an institution outside the provinces of Quebec and Ontario, *agrégation*, involves control by the univ. of programmes and exams.



### Classical Studies

The following colls. (for boys) provide an 8-yr. course (*cours secondaire et cours universitaire*) leading to the BA of Laval Univ. :—

ACADÉMIE DE QUÉBEC, Quebec (affiliated 1953).  
COLLÈGE CLASSIQUE DE THETFORD, Thetford-Mines.

COLLÈGE D'AMOS, Amos (1941).

COLLÈGE DE JONQUIÈRE, Jonquière (1956).

COLLÈGE DE LÉVIS, Lévis (1879).

COLLÈGE DE MARIE-MÉDIATRICE, Hull (1949).

COLLÈGE DE MATANE, Matane.

COLLÈGE DES JÉSUITES, Quebec (1930).

COLLÈGE DE STE. - ANNE - DE - LA - POCATIÈRE, Kamouraska (1863).

COLLÈGE DE VICTORIAVILLE, Victoriaville (1953).

COLLÈGE ST. - ALEXANDRE, Pointe - Gatineau (1915).

ÉCOLE APOSTOLIQUE DU SACRÉ-CŒUR, Beauport & Watertown, N.Y., U.S.A. (1944).

EXTERNAT ST.-JEAN-EUDES, Quebec (1938).

INSTITUT STE.-MARIE, St-Anselme (1956).

MONT ST.-SACREMENT, Valcartier (1956).

PETIT SÉMINAIRE DE CHICOUTIMI, Chicoutimi (1877).

PETIT SÉMINAIRE DE MONT-LAURIER, Mont-Laurier (1915).

PETIT SÉMINAIRE DE NICOLET, Nicolet (1863).

PETIT SÉMINAIRE DE QUÉBEC, Quebec (1863).

PETIT SÉMINAIRE DE ST.-GEORGES, Beauce (1949).

PETIT SÉMINAIRE DE ST.-GERMAIN, Rimouski (1872).

PETIT SÉMINAIRE ST.-JOSEPH, Trois-Rivières (1863).

SÉMINAIRE DE GASPÉ, Gaspé (1926).

SÉMINAIRE DE HAUTERIVE, Saguenay (1955).

SÉMINAIRE DES PÈRES MARISTES, Sillery (1944).

SÉMINAIRE DU SACRÉ-CŒUR, St.-Victor, Beauce (1925).

SÉMINAIRE MONTFORTAIN, Papineauville (1941).

SÉMINAIRE ST. - ALPHONSE, Ste. - Anne - de - Beupré (1932).

SÉMINAIRE ST.-ANTOINE, Trois-Rivières (1933).

SÉMINAIRE ST.-FRANÇOIS, Cap Rouge (1956).

SÉMINAIRE ST.-VINCENT, Charlesbourg.

SÉMINAIRE STE.-MARIE, Shawinigan (1950).

The following colls. (for girls) provide an 8-yr. course (*cours secondaire et cours universitaire*) leading to the BA of Laval Univ. :—

COLLÈGE ANGÈLE-DE-MÉRICI, Quebec (affiliated 1936).

COLLÈGE DES URSULINES, Rimouski (1939).

COLLÈGE DU BON-PASTEUR, Chicoutimi (1947).

COLLÈGE JÉSUS-MARIE, Sillery (1924).

COLLÈGE MARGUERITE D'YOUVILLE, Hull (1945).

COLLÈGE MARIE - DE - L'INCARNATION, Trois - Rivières (1935).

COLLÈGE NOTRE-DAME DE BELLEVUE, Quebec (1937).

COLLÈGE NOTRE - DAME DE L'ASSOMPTION, Nicolet (1932).

SCOLASTICAT NOTRE-DAME-DU-ROSAIRE, Hull (1940).

Nine other colls. (for girls) provide only a 4-yr. course (*cours secondaire*) leading to the matric. dipl. of Laval Univ.

### Lettres-Sciences

Seven colls. (for girls) provide a 4-yr. course (*cours lettres-sciences*) leading to the matric. dipl. of Laval Univ.

### Schools of Nursing

The following hospitals provide a 3-yr. post-matric. course leading to the dipl. in nursing of Laval Univ. :—

HÔPITAL DE L'ENFANT-JÉSUS, Quebec (affiliated 1928).

HÔPITAL ST.-FRANÇOIS D'ASSISE, Quebec (1925).

HÔPITAL ST.-JOSEPH, Rimouski (1944).

HÔPITAL ST.-JOSEPH, Rivière-du-Loup (1924).

HÔPITAL ST.-JOSEPH, Trois-Rivières (1923).

HÔPITAL ST. - MICHEL - ARCHANGE, Quebec (1924).

HÔPITAL ST.-SACREMENT, Quebec (1928).

HÔPITAL ST.-THÉRÈSE, Shawinigan (1945).

HÔPITAL YOUVILLE, Noranda (1934).

HÔTEL-DIEU, Alma (1957).

HÔTEL-DIEU, Arthabaska (1935).

HÔTEL-DIEU, Gaspé (1949).

HÔTEL-DIEU, Lévis (1934).

HÔTEL-DIEU, Quebec (1933).

HÔTEL-DIEU NOTRE-DAME, St.-Georges, Beauce (1957).

HÔTEL-DIEU ST.-VALLIER, Chicoutimi (1938).

## GENERAL INFORMATION

The univ. was founded in 1852, under a royal charter, by the Seminary of Quebec (whose own founder was the Ven. Mgr. François de Montmorency Laval, the first bishop of Quebec). A

general supervision of teaching and discipline is exercised by the Archbishop of Quebec as visitor and chancellor apostolic and president of the conseil supérieur of bishops of the ecclesiastical

province of Quebec. The profs. of the facs. of theol. and philos. are nominated by the visitor, those of other facs. by the conseil de l'université, composed of the dirs. of the Seminary of Quebec and 3 sr. profs. of the facs. of theol., arts, law and med., and the deans of the facs. of philos., letters, scis., soc. scis., agric., for. and surveying, and comm.

**LIBRARIES.** General, 325,000 vols.; others, 65,200 vols.

**GENERAL MUSEUM.** Dir.: A. Jobin.

**LABORATORIES.** Anat., bacteriol., biochem., biol., bot., chem., for., geol., hyg., mineral., optics, pathol., phys., physiol., physio-pathol.

**FACULTIES AND DEANS.** *Agric.*: Prof. M.-A. Pineau; *arts*: Rev. R. Miville; *comm.*: Bro. Clement; *for. & surveying*: Prof. L. Z. Rousseau; *law*: Prof. G. Hudon; *letters*: M. Lebel; *med.*: Prof. J.-B. Jobin; *philos.*: Mgr. M. Dionne; *scis. & engin.*: Prof. C. Ouellet; *soc. scis.*: Prof. J. M. Martin; *theol.*: Mgr. G. Petit (Prof.). These deans are elected for a 4-yr. term and cannot be elected for more than 2 successive terms. They are full-time.

**SCHOOLS.** *Educn.*, Prof. R. Miville, dir.; *fisheries*, Mgr. J. Diamant (Prof.), dir.; *geog.*, Prof. L. E. Hamelin, dir.; *grad. studies*, Prof. P.-E. Gagnon, pres.; *hist.*, Prof. M. Trudel, dir.; *household sci.*, Sr. Ste.-Thérèse-de-la-Foi, dir.; *music*, Prof. O. Pouliot; *nursing* (16 affiliated schools), J. M. Blanchet, dir.; *pharmacy*, Prof. A. Marquis, dir.; *soc. service*, G. Rocher, dir.

**ADMISSION.** See Appendix II.

**DEGREES, DIPLOMAS AND TEACHING ACTIVITIES.** The univ. perpetuates the stages by which a degree was, and still is, reached in the Univ. of Paris. The baccalauréat ès arts (BA) is not the equivalent of any of the English degrees, but is an official cert. (recognized by the govt.) that the student has successfully completed his literary and scientific studies, and is entitled to begin his professional studies in law, med. or appl. scis., or the higher studies. It is obtained before he leaves the affiliated institute, seminary or college at which he has studied. The univ. has granted affiliation to about 70 private schools for boys and girls (see 'Affiliated Institutions', above). At the age of 12 yrs. the children may choose between the primary course, a cert. being granted, after univ. exam., at the end of the 4th yr., and the classical course of the first degree (high sch., 4 yrs.), with a cert. of matric. at the end of the 4th yr. (at about the age of 16). The main difference between the two courses is the teaching of Latin, and the advanced teaching of maths. and of hist., in the high schs.

The high sch. course is given in schs. limited to such a course, or in colleges and 'séminaires', which give, after the high sch. course, the teaching usual in colls. of arts. In these last instns. Greek is taught for 4 yrs.; philosophy (theory, hist. essays) for 2 yrs.; Latin for 6 yrs. Students who

reach a certain standard in both letters and scis. obtain the BA, usually at about the age of 20.

After the BA the student may proceed, in the univ. itself, to the baccalauréat in theol. (BTh, 3 yrs.); in philos. (BPh, 2 yrs.); in soc. scis. (BScSoc, 2 yrs.); in civil law (BLL, 3 yrs.); in music (BMus, 3 yrs.); in orientation (BOR, 2 yrs.); in pharmacy (BPharm, 3 yrs.); in surveying (BScApp, 4 yrs.); in agric. (BSA, 4 yrs.); in fisheries (BScP, 4 yrs.); in comm. (BCom, 2 yrs.); in educn. (BEduc and BPéd, 1 yr.); in appl. scis. (BScApp, 5 yrs.); in household scis. (BScDom, 4 yrs.). The course for the licence covers 3 yrs. after the BA in philos. (LPh); 2 yrs. in letters (LèSL); 3 yrs. in scis. (LSc); 3 yrs. in law (LLL); 4 yrs. in theol. (LTh); 5 yrs. in music (LicMus); 4 yrs. in soc. scis.; 3 yrs. in educn. To obtain the doctorate it is necessary to support successfully in public a thesis and propositions as in French univs. 'The DenM or MD is granted after 5 yrs.' study, by exam.

The dipl. in for. (IF) is awarded after 5 yrs.' study in the fac. of surveying and for. and the dipl. in surveying (AG) also after 5 yrs.

The fac. of scis. provides a 5 yrs.' course leading to the baccalauréat in appl. scis. (BScApp), or to a licence (LSc) and to a doctorate in scis. (DSc).

**RECOGNITION** of the BA of Laval is accorded by most European univs., by Canadian univs. and by most univs. of the U.S.A.

**TUITION FEES.** \$200 to \$500 p.a., with an extra charge for labs. Arts, \$200; geog., hist., med. technol., music, postgrad. studies, law, letters, educn., philos., soc. scis., theol., \$350; surveying, for., sci., \$400; med., \$500.

**RESIDENCE.** (Fees: \$500 p.a.) Students of theol. reside at the Grand Seminary, Quebec.

Other students live with families approved by the moderator.

**EXTRA-MURAL WORK.** Summer course in theol., philos., French, English, Spanish, educn., Gregorian chant, Latin, natural scis., radio.

**USUAL LANGUAGE OF INSTRUCTION.** French.

**PUBLICATIONS.** *Annuaire général*, *Annual Report*, *Special Calendars* for grad. school, theol., law, med., educn. and guidance, scis., philos., soc. scis., nursing, music, letters, comm., agric., soc. work, surveying and for., and summer courses. *La Revue de l'Université Laval*, *Le Laval théologique et philosophique*, *Le Naturaliste canadien*, *L'Enseignement secondaire au Canada*, *Cahiers du Cercle Laennec*, *Revue des relations industrielles*, *Revue du service social*, *Le Carabin* (students' paper). History: *L'Université Laval, 1852-1952*. (Laval, 1952).

**UNIVERSITY PRESS** publishes the above calendars and reviews, the doctoral theses of Laval students, the works of Laval profs. and other works of special interest to Laval. It also sells textbooks and other books and supplies.

## 12 YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Engs. completed* in new cité universitaire : seminary of theol., chapel.

DEATHS. Mgr. R. Dolbec (vice-rector) ; Canon A. Decoene (arts) ; E. Hamel (scis.) ; E. Laroche (music) ; J. T. Michaud (med.) ; P. Deltour (for.) ; D. A. Déry (scis.) ; A. Giasson (agric.).

HONORARY DEGREES. *Agric.*—Canon F. X. Jean ; Dom P. Gaboury ; H. G. Dion. *Comm.*—W. Hamel ; R. L. Dunsmore ; I. F. McRae ; S. F. Teele ; G. Bray. *For.*—F. A. Harrison. *Law*—Rt. Hon. J. G. Diefenbaker. *Letters*—Mgr. F. L. R. Sassen ; Most Rev. P. Carrington ; R. F. Farquharson. *Med.*—R. F. Farquharson. *Scis.*—Sir E. Appleton ; Sir H. W. Morey ; K. Victor Lindell. *Soc. scis.*—H. W. Springer ; J. Steverlynck ; G. Poisson.

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	7,871	2832
Women . . .	2,507	1858
Total . . .	10,378	4690

Distribution by Faculties. *Agric.*, 104 ; *arts*, 350 ; *comm.*, 807 ; *educn.*, 264 ; *fish.*, 18 ; *for.*, 61 ; *house scis.*, 118 ; *law*, 147 ; *letters*, 285 ;

*med.*, 393 ; *music*, 100 ; *nat. sc.*, 1025 ; *soc. scis.*, 212 ; *tech. med.*, 73 ; *theol.*, 31 ; *postgrad.*, 105. Total : 10,378.

included in the figures above are :—

postgraduate students, 105.

New admissions, 3709.

Students from other countries, 124. (Countries from which largest numbers came : U.S.A., 54 ; Vietnam, 14).

DEGREES, ETC., AWARDED (1958-59). *Agric.* : bacc., 8 ; mast., 2. *Arts* : matric., 1516 ; bacc., 4 ; mast., 2. *Bibliothecon.* : dipl., 9. *Biol.* : BScApp, 2 ; dipl., 1. *Chem.* : BScApp, 11 ; doct., 4. *Civ. engin.* : BScApp, 28. *Comm.* : cert., 122 ; bacc., 15 ; mast., 103. *Educn.* : dipl., 8 ; bacc., 168 ; mast., 9. *Electr. engin.* : BScApp, 16 ; mast., 3. *Geomol.* : mast., 1. *Fisheries* : bacc., 1. *For. engin.* : BScApp, 24 ; mast., 3. *Geol. engin.* : BScApp, 5 ; doct., 4. *Household scis.* : bacc., 22 ; mast., 13 ; lic., 14. *Letters* : Cert., 107 ; dipl., 17 ; bacc., 14 ; mast., 17 ; lic., 10 ; doct., 9. *Maths.* : cert., 3 ; BScApp, 2. *Mech. engin.* : BScApp, 15. *Med.* : doct., 123. *Mining engin.* : BScApp, 11. *Music* : cert., 241 ; dipl., 276 ; mast., 9. *Nursing* : dipl., 381. *Pharm.* : bacc., 1 ; mast., 5 ; lic., 4 ; doct., 1. *Phys.* : cert., 2 ; lic., 5 ; BScApp, 16. *Soc. scis.* : cert., 54 ; bacc., 21 ; mast., 11. *Soc. work* : bacc., 19 ; mast., 17. *Surv.* : BScApp, 8. *Tech. med.* : cert., 40. *Theol.* : dipl., 17 ; bacc., 1 ; lic., 18 ; doct., 1.

# MCGILL UNIVERSITY\*

Founded 1821

Postal Address : Montreal 2, P.Q., Canada

Cables and Telegrams : McGill University, Montreal

Telephone : Victor 4-6311

VISITOR—H.E. THE GOVERNOR-GENERAL OF CANADA

CHANCELLOR—R. E. POWELL, DLitt *Monmouth*, LL.D

PRINCIPAL AND VICE-CHANCELLOR—F. C. JAMES, BCom *Lond.*, AM PhD *Penn.*, DSc *Clarkson*, DU *Montr.*, DCL *Bishop's*, LLD *Qu.*, *N.Y.*, *Sask.*, *Manit.*, *Tor.*, *Syr.*, *Lond.*, *Ursinus*, *New Br.*, *McM.*, *Birm.*, *Panj.*, *Camb.* & *Alta.*, FRSCan

VICE-PRINCIPAL—D. L. THOMSON, BSc MA *Aberd.*, PhD *Camb.*, DSc *Colby & McM.*, LLD *Aberd.* & *Middlebury*, FCIC, FRSCan

DEANS—AGRICULTURE—H. G. DION, BSc *Sask.*, PhD *Wis.* (Agric. Chem.); ARTS AND SCIENCE—H. N. FIELDHOUSE, BA *Oxon.*, MA *Sheff.*, FRSCan (Hist.); DENTISTRY—J. McCUTCHEON, MSD *Mich.*, BA DDS; DIVINITY—S. B. FROST, BD MTh *Lond.*, DPhil *Marburg*; ENGINEERING—D. L. MORDELL, MA *Camb.*; GRADUATE STUDIES AND RESEARCH—D. L. THOMSON, BSc MA *Aberd.*, PhD *Camb.*, DSc *Colby & McM.*, LL.D *Aberd.* & *Middlebury*, FCIC, FRSCan (Biochem.); LAW—W. C. J. MERFETH, QC, MA *Camb.*; MEDICINE—L. G. STEVENSON, BA MD *W.Ont.*, PhD *Johns H.*; MUSIC—M. DUCHOW, BA *N.Y.*, MA *Roch.*, MusB

SECRETARY—J. H. HOLTON, BCom *Tor.*

COMPTROLLER—G. GRIMSON, BCom

REGISTRAR—C. M. McDUGALL, DSO, BA

LIBRARIAN—R. PENNINGTON, BA *Birm.*, DipLib *Lond.*

WARDEN OF THE ROYAL VICTORIA COLLEGE (WOMEN)—MURIEL V. ROSCOC, AM PhD *Radcliffe*, DSc *Acad.*, LLD *Qu.*

## INCORPORATED COLLEGES

MACDONALD COLLEGE, Ste.-Anne de Bellevue, P.Q. (tel.: Glendale 3-5335), incl. Fac. of Agric., Inst. of Education and Sch. of Household Science. Vice-Principal—H. G. Dion, BSc *Sask.*, PhD *Wis.*

ROYAL VICTORIA COLLEGE, Montreal (Women's Coll. of the Univ.) (tel.: Victor 4-6311). Warden—Muriel V. Roscoe, AM PhD *Radcliffe*, DSc *Acad.*, LLD *Qu.*

## TEACHING STAFF

[† = Part-Time]

### MCGILL COLLEGE (Faculty of Arts and Science)

#### Accounting

Byrd, K. F., BSc MA *Lond.*

Patton, D. R., BCom

Prof.

Assoc. Prof.

Agriculture, see Macdonald Coll., p. 202

#### Anatomy (Histology, Embryology)

Leblond, C. P., MD DSc *Paris*, PhD *Montr.*

Langman, J., PhD MD

Prof.

Prof.

Banfill, S. M., BA *Bishop's*, MD CM Assoc. Prof.

Clermont, Y., BSc *Montr.* Asst. Prof.

Heller, L., MS *Wis.*, MD CM †Lectr.

Smart, I., MB ChB Lectr.

Walker, B., MSc PhD Lectr.

Workman, E. W., MD CM MSc †Lectr.

4 Demrs., 1 Teaching Fellow

Anthropology, see Sociol.

Member of the Association of Universities of the British Commonwealth

**Architecture**

Bland, J., BArch Macdonald Prof., Dir. of Sch.  
 Collins, P., MA *Manc.* Assoc. Prof.  
 Spence-Sales, H. J., BA *N.Z.* Assoc. Prof.  
 Balharrie, J. W. †Asst. Prof.  
 Webber, G., BDesign *IllinoisTech.Inst.*

Asst. Prof.  
 Wilson, S. A., BArch †Asst. Prof.  
 Schreiber, J., BSc(Archit) *Glas.* Asst. Prof.  
 Shadbolt, D., BArch *Oregon* Asst. Prof.  
 Johnson, W. A., BA BCL †Lectr.  
 Wheeler, O., BA *Bishop's* †Lectr.  
 Desbarats, G., BArch Sessl. Lectr.  
 Valentine, H. A. I., BArch †Lectr.

**Art, sec Fine Arts****Bacteriology, sec Medicine****Biochemistry**

Elliott, K. A. C., MSc *S.A.*, PhD  
 ScD *Camb.* Prof.  
 Thomson, D. L., BSc MA *Aberd.*, PhD *Camb.*,  
 DSc *Colby & McM.*, LL.D. *Aberd. &*  
*Middlebury*, FCIC, FRSCan Cheney Prof.  
 Quastel, J. H., PhD *Camb.*, DSc *Lond.*,  
 FRIC, FRS  
 Prof., Dir., McGill-Montreal Gen. Hosp.  
 Res. Inst.  
 Denstedt, O. F., BSc *Manit.*, PhD, FCIC  
 Assoc. Prof.  
 Scholefield, P. G., MSc *Wales*, PhD Asst. Prof.  
 Rubenstein, D., MD PhD Asst. Prof.  
 Creaser, E. H., BA PhD *Camb.* Asst. Prof.  
 Hosein, E., MSc PhD Asst. Prof.  
 Douglas, D. E., MSc PhD †Lectr.  
 Neufeld, A. H., MSc PhD *Manit.*, MD  
 CM †Lectr.  
 Webb, J. L., MSc PhD Sessl. Lectr.  
 Zaharia, W., BSc *Manit.* Sessl. Lectr.  
 1 Res. Assoc.

**Botany**

Roscoe, Muriel V., AM PhD *Rudcliffe*,  
 DSc *Acad.*, LL.D. *Qu.* Macdonald Prof.  
 Gibbs, R. D., PhD *Lond.*, MSc, FLS,  
 FRSCan Prof.  
 Wilson, C. M., BSc MA *Virginia*,  
 PhD *Harv.* Assoc. Prof.  
 Towers, G. H. N., MSc Assoc. Prof.  
 Boll, W. G., BSc PhD *Manc.* Asst. Prof.  
 Maycock, P. E., BA *Qu.*, MSc PhD *Wis.*  
 Asst. Prof.  
 1 Demr.

**Chemistry, see also Engineering, Chemical**

Purves, C. B., BSc PhD *St.And.*,  
 DSc *Lawrence*, FRSCan  
 (Indust. & Cellulose Chem.) Eddy Prof.  
 Winkler, C. A., OBE, MSc *Manit.*,  
 DPhil *Oxon.*, PhD, FCIC, FRSCan  
 Otto Maass Prof.  
 Yaffe, L., MSc *Manit.*, PhD Macdonald Prof.

Mennie, J. H., BSc *Oxon.*, MA *Br.Col.*,  
 PhD Assoc. Prof.

Nicholls, R. V. V., MSc PhD, FCIC

Assoc. Prof.  
 Taurins, A., DrChem *Riga* Assoc. Prof.

Ross, A. S., BA *W.Ont.*, AM *Oberlin*, PhD

Assoc. Prof.

Holcomb, R. K., BSA PhD Assoc. Prof.

Schiff, H. I., MA PhD *Tor.* Assoc. Prof.

Sehon, A., MSc PhD *Manc.* Asst. Prof.

Edward, J. T., DPhil *Oxon.*, BSc PhD

Asst. Prof.

Onyszchuk, M., MSc *W.Ont.*, BSc PhD

Asst. Prof.

Robertson, R. F., BA *Br.Col.*, PhD Asst. Prof.

Just, G., IngChem *E.T.H.Zürich*,  
 PhD *W.Ont.* Asst. Prof.

Shelstad, R. A., BEng *Sask.*, MSc *Dal.*,  
 PhD *Tor.* Asst. Prof.

Cave-Brown-Cave, G., MA *Br.Col.*,  
 PhD *M.I.T.* Asst. Prof.

Ross, J. H., DSc *Geneva*, BSc Hon. Lectr.

7 Demrs.

**Classics**

Carruthers, C. H., BA *Oxon.*, MA *Tor.*,  
 PhD *Chuc.* (Class. Philol.) Prof  
 Counsell, E. M., MBE, MA *Oxon.* Assoc. Prof.  
 McCullagh, P. F., BA *Tor.*, PhD *Chuc.*, MA  
 Assoc. Prof.  
 Gordon, C. D., BA *Alta.*, MA PhD *Mich.*  
 Assoc. Prof.  
 Vallillee, G. A., BA Asst. Prof.  
 Schachter, A., BA Lectr.  
 Spence, E. Marie, BA *Alta.*, MA *Bryn Mawr*  
 Lectr.

**Commerce**

Woods, H. D., BA *New Br.*, MA  
 (Indust. Relns.) Bronfinan Prof., Dir.,  
 Indust. Relns. Centre  
 Armstrong, D. E., BA BCom *Alta.*  
 Prof., Dir., Sch. of Comm.  
 Marshall, A. R., BCom *Dal.* Asst. Prof.  
 Pugsley, W. H., BCom Asst. Prof.  
 Willis, R. S., LL.D. *Montpellier*, BCL †Lectr.  
 Boive, R. S., BCom, CA †Lectr.  
 13 Demrs.

**Dentistry, see below****Divinity**

Frost, S. B., BD MTh *Lond.*, DPhil *Marburg* Prof.  
 Jay, E. G., MA *Leeds*, PhD *Lond.* Prof.  
 Johnston, G., MA BD *Glas.*, PhD *Camb.* Prof.  
 Smith, W. C., BA *Tor.*, PhD *Prin.*  
 (Compar. Relig.) Birks Prof.  
 Walsh, H. H., MA *K.C.N.S.*, BD *Gen.*  
 Synod., STM *GeneralTheol.Sem.*, PhD  
 Col. (Church Hist.) Prof.  
 McLelland, J. C., BA *McM.*, MA *Tor.*,  
 BD *Knox(Tor.)*, PhD *Edin.* †Assoc. Prof.  
 Boorman, J. A., BA *Alta.*, MA PhD *Col.* †Lectr.  
 Kirby, J. C., STB *GeneralTheol.Sem.*,  
 BA STM Lectr.

**Economics and Political Science**

- Beach, E. F., BA *Qu.*, AM PhD *Harv.*  
Bronfman Prof.
- Catlin, G. E. G., MA *Oxon.*, PhD *Corn.*,  
FRSL Bronfman Prof.
- Janes, F. C., BCom *Lond.*, AM PhD  
*Penn.*, DSc *Clarkson*, DUMontr., DCL  
*Bishop's*, LL.D *Qu.*, N. Y., *Sask.*, *Manit.*,  
*Tor.*, *Syr.*, *Lond.*, *Ursinus*, *New Br.*,  
*McM.*, *Birm.*, *Panji.*, *Camb.* & *Alta.*,  
FRSCan  
(Pol. Econ.) Prof., Principal & Vice-  
Chancellor of Univ.
- Wright, D. M., LLB *Virginia*, MA  
PhD *Harv.* William Dow Prof.
- Mallory, J. R., BA *New Br.*, MA *Dal.*,  
LLB *Edin.* (Pol. Sci.) Prof.
- Supple, B. E., BSc *Lond.*, PhD *Camb.*  
Assoc. Prof.
- Brecher, I., PhD *Harv.*, BA Assoc. Prof.
- Callard, K. B., BSc *Lond.* Assoc. Prof.
- Callout, J. T., BA *Sask.*, MA Assoc. Prof.
- Weldon, J. C., BA PhD Assoc. Prof.
- Brecher, M., BA PhD *Yale* Assoc. Prof.
- Frankel, S., MA (on leave) Asst. Prof.
- Ostry, Mrs. Sylvia, MA PhD Asst. Prof.
- Oliver, M., BA PhD Asst. Prof.
- Amakopulos, A., PhD *Camb.*, MA Asst. Prof.
- Pal, I. D., MA *Panji.*, MSc Lectr.
- Bronke, A., MA *St.And.*, PhD *Montr.*  
Sessl. Lectr.
- 2 Assts.

**Education**, see also Macdonald Coll., p. 202

- Munroe, D. C., MA Prof., Dir., Inst. of Educn.  
Macdonald Prof.
- Curtis, A. B., BCom *Qu.*, MA MEd *Alta.*,  
PhD *Lond.* Assoc. Prof.
- Wood, Winona, BA BEd *Sask.*, MA *Col.*,  
Dipl *McG.Sch.of Phys.Educn.* Asst. Prof.
- Wilkinson, R. E., MA *Col.*, BSc Asst. Prof.

**Embryology**, see Anat.**Engineering**, see below**English Language and Literature**

- Walker, R. S., MA *Camb.* & *Aberd.* Molson Prof.
- Files, H. G., AM PhD *Harv.* Greenshields Prof.
- Hemlow, Joyce, MA *Qu.*, AM PhD *Harv.* Prof.
- MacLennan, H., BA *Dal.*, MA *Oxon.*, AM  
PhD *Prin.*, DLitt *W.Ont.* †Assoc. Prof.
- Lucas, A., MA *Qu.*, AM PhD *Harv.*  
Assoc. Prof.
- Malloch, A. E., MA *Tor.* Assoc. Prof.
- Beresford-Howe, Constance, PhD *Brown*,  
MA Asst. Prof.
- Dudek, L., MA *Col.*, BA (on leave) Asst. Prof.
- Sleigh, G. F., MA *Aberd.*, BLitt *Oxon.*  
Asst. Prof.
- Klima, S., MA PhD *Yale* (on leave) Asst. Prof.
- Cecil, C. D., BA *Dartmouth*, MA *Oxon.*  
Asst. Prof.
- Puhvel, M., MA PhD *Harv.* Asst. Prof.
- Betanzos, Mrs. Janet, BA Lectr.

- Simpson, Margery E., BA Lectr.
- Sproule, H., BA *Dal.* Lectr.
- Booth, W. T., BA Lectr.
- Brown, K., BA *Camb.* Lectr.
- Wallace, D., BA Lectr.
- Prouty, W., BA *Bishop's*, MA *New Br.*,  
BLitt *Oxon.* Lectr.
- Ritchie, H. M., BA *Oberlin*, MFA *Yale* Lectr.
- Mathewson, G., BA *Harv.*, BLitt *Oxon.* Lectr.
- Mein, C., MA *Dub.* Lectr.

**Fine Arts**

- Judkins, W. O., AM *Harv.* Assoc. Prof.
- Galvaris, G., BA *Athens*, MFA PhD *Prin.*  
Asst. Prof.
- Viau, G. †Asst. Prof.

**French**, see Romance Langs.**Genetics**

- Boyes, J. W., MSc *Sask.*, PhD *Wis.*  
John & Anne Molson Prof.
- Fraser, F. C., BSc *Acad.*, MD CM MSc  
PhD Prof.
- Boothroyd, E. R., BSc *Bishop's*, MSc PhD  
Assoc. Prof.
- Grant, W. F., MA *McM.*, PhD *Virginia*  
Asst. Prof.
- Naylor, A. F., AB PhD *Chic.* Asst. Prof.
- Metrakos, J. D., MSc PhD  
Asst. Prof. & Res. Fellow

**Geography**

- Harc, F. K., BSc *Lond.*, PhD *Montr.*,  
FRMetS Prof., Dir. of Geog. Summer Sch.
- Lloyd, T., MA *Dartmouth*, PhD *Clark*,  
DSc *Brist.* Prof.
- Bird, J. B., MA *Camb.* Assoc. Prof.
- Orvig, S., MSc *Oslo*, PhD Assoc. Prof.
- Hills, T. L., MA *Camb.* Assoc. Prof.
- Drummond, R. N., MSc (on leave) Asst. Prof.
- Jacobson, G., BSc *Vienna* †Hon. Lectr.
- Michie, G. H., BA *Tor.* Lectr.
- Innes, F. C., BSc *Glas.* Lectr.
- Parry, J. T., BA *Oxon.*, MSc *Liv.* Lectr.
- 3 Res. Assocs.

**Geological Sciences**

- Clark, T. H., AM PhD *Harv.*, FGSA,  
FRSCan (Palaeontol.) Logan Prof.
- Gill, J. E., PhD *Prin.*, BSc, FRSCan  
Dawson Prof.
- Kranck, E. H., DSc *Helsinki* Prof.
- Stevenson, J. S., BA BSc *Br.Col.*,  
PhD *M.I.T.*, FGSA, FRSCan Assoc. Prof.
- Stearn, C. W., BSc *McM.*, MS PhD *Yale*  
Assoc. Prof.
- Saull, V. A., DSc *M.I.T.*, BSc Assoc. Prof.
- Elson, J. A., BSc *W.Ont.*, MSc *McM.*,  
PhD *Yale* Asst. Prof.
- Frueh, A. J., SM PhD *M.I.T.* Asst. Prof.
- Webber, G. R., BSc *Qu.*, MSc *McM.*,  
PhD *M.I.T.* Asst. Prof.

Eakins, P. R., MSc PhD *Lond.*  
Dehn, H. L. J., Dip *T.U. Berlin*

Asst. Prof.  
Lectr.

### German

Reiss, H. S., BA *Dub.*, PhD *Lond.*  
Meyer, Bertha, MA  
Litvinowicz, V. N., MPh *Warsaw*  
Block, V., MA  
Westwood, J. N., BCom *Birm.*, MA *Montr.*

Prof.  
Assoc. Prof.  
Asst. Prof.  
Asst. Prof.  
Lectr.

1 Res. Assoc.

**Graduate Studies and Research**, see  
below

**Greek**, see Classics

**Histology**, see Anat.

**History**, see also Div.

Fieldhouse, H. N., BA *Oxon.*, MA *Sheff.*,  
FRSCan Kingsford Prof.  
Bayley, C. C., MA *Manc.*, PhD *Chic.* Prof.  
Cooper, J. I., MA *W. Ont.*, PhD Assoc. Prof.  
Reid, W. S., ThM *Westminster (Pa.)*,  
PhD *Penn.*, MA Assoc. Prof.  
Mladenovic, M., BCom MI *Belgrade*, DLI.  
DèsScPol DèsScEcon DipdesHautes  
ÉtudesSoc *Paris* Assoc. Prof.  
Zagorin, P., AB *Chic.*, MA PhD *Harv.* Asst. Prof.  
Vogel, R., BA *SirG.Wms.*, MA Lectr.

**Household Science**, see Macdonald Coll.,  
p. 203

### Islamic Studies

Smith, W. C., BA *Tor.*, PhD *Prin.*  
Birks Prof., Dir. of Inst.  
Rahman, F., MA *Panj.*, DPhil *Oxon.*  
Assoc. Prof.  
Berkas, N., LèsL *Istanbul*, Docent *Ankara*  
Assoc. Prof.  
Callard, K. B., BSc *Lond.* Assoc. Prof.  
Rasjidi, M., LèsL *Fuad I*, DU *Paris* Assoc. Prof.  
Adams, C. J., AB *Baylor*, PhD *Chic.* Asst. Prof.  
Williams, J. A., BA *Arkansas*, MA  
PhD *Prin.* Asst. Prof.

**Italian**, see Romance Langs.

**Latin**, see Classics

**Law**, see below

**Library Science**, see below

**Logic**, see Philos.

### Mathematics

Tate, H., BSc *N.U.I.*, MA *Dub.* Prof.  
Fox, C., MA *Camb.*, DSc *Lond.* Prof.  
Rosenthal, E., PhD *Cal. Tech.*, MSc Prof.  
Wallace, P. R., MA PhD *Tor.* Prof.

Schwerdtfeger, H. W. E., DrPhil *Bonn*,  
MA *Melb.*

Prof.

Guttman, I. P., MA PhD *Tor.*, BSc Assoc. Prof.  
Lomon, E. L., PhD *M.I.T.*, BSc

(on leave) Assoc. Prof.

Kaufman, H., MSc PhD Assoc. Prof.  
Lambek, J., MSc PhD Assoc. Prof.  
Morris, T. F., PhD *Tor.* Assoc. Prof.  
Sharp, R. T., MSc Assoc. Prof.

Solin, C. D., PhD *Tor.*, MA  
Assoc. Prof., Asst. Dean, Fac. of Arts & Sci.

Burrow, M. D., MSc Assoc. Prof.

Rattray, B., PhD *Prin.*, MSc  
(on leave) Assoc. Prof.

Findlay, G. D., BSc *Glas.*, BA *Camb.* Asst. Prof.

Back, G. G., BSc *Altu.*, MSc *Birm.*,  
PhD Asst. Prof.

Thorpe, W. D., MA *Camb.* Asst. Prof.

Waugh, W. A. O., DPhil *Oxon.*, MS Asst. Prof.

Herschorn, M., BA Asst. Prof.

Khare, H. C., MSc *Alld.* Asst. Prof.

Melamed, S., BSc Asst. Prof.

Oler, N., MSc Asst. Prof.

Kahana, S., MSc *Manit.*, PhD *Edin.* Asst. Prof.

Sussman, D., MA Asst. Prof.

Griffiths, I. F., BA *Wales* Lectr.

Goldrich, A. J., BA *Montr.* Lectr.

Kingsbury, D. M., BSc Lectr.

Patterson, R. A., BA *Mt.All.*, BPæd *Tor.* Lectr.

Shupe, J. F., MSc *Dal.* Lectr.

Shtern, I. H., BSc *SirG.Wms.*, MA *N.Y.* Lectr.

Schwerdtfeger, Mrs. Hanna Lectr.

Oler, Mrs. Jacqueline, BA *Randolph-Macon* Lectr.

Ritcey, L. F. S., BA *Mt.All.*, MA *Harv.*,  
PhD *Chic.* Sp. Lectr.

Schiff, M., BSc Lectr.

Teitlebaum, A. D., BSc Lectr.

9 Demrs., 1 Res. Assoc.

**Medicine**, see below

**Metallurgy**, see Engineering, below

**Mining**, see Engineering, below

### Music

Duchow, M., BA *N.Y.*, MA *Roch.*, MusB Prof.  
Brott, A., LMus Assoc. Prof.  
Blume, H., MusB *Berlin Acad. Music* Assoc. Prof.  
Anhält, I. Asst. Prof.  
11 Instrs.

**Nursing**, see Sch. for Grad. Nurses, below

**Palæontology**, see Geological Sciences

**Parasitology**, see Macdonald Coll., Inst. of  
Parasitol., below

### Philosophy

Henderson, T. G., PhD *Harv.*, MA Prof.  
Klibansky, R., MA *Oxon.*, DPhil *Heidel.*  
(Logic & Metaphysics) Prof.

Miller, J. W., AB *Mich.*, PhD *Harv.*

Currie, C., PhD *Harv.*, MA Macdonald Prof.  
Assoc. Prof.  
McKinnon, A. T., MA *Tor.*, PhD *Edin.*

Gombay, A., BPhil *Oxon.*, MA Asst. Prof.  
Lectr.  
McCall, R. S., BPhil *Oxon.*, BA Lectr.  
Ross, J. D., BA Lectr.

### Physical Education, see below

### Physics

Foster, J. S., PhD *Yale*, DSc *Acad.*,  
FRSCan, FRSS  
Rutherford Prof., Dir. of Radiation Lab.  
Marshall, J. S., MA *Qu.*, PhD *Camb.*  
Macdonald Prof.  
Woonton, G. A., MA *W.Ont.*, FRSCan  
Macdonald Prof., Dir. of Electronics  
Res. Lab.  
Pounder, E. R., BSc PhD Prof.  
Bell, R. E., MA *Br.Col.*, PhD Rutherford Prof.  
Gunn, K. L. S., BA *W.Ont.*, MSc PhD  
Assoc. Prof.

McPherson, Anna I., PhD *Chic.*, BA  
MSc Assoc. Prof.  
Martin, W. M., BSc *Qu.*, PhD Assoc. Prof.  
Terroux, F. R., BA *Loyola*, PhD *Camb.*,  
MSc Assoc. Prof.  
Herschfield, W. F., BSc *Tor.*, PhD Assoc. Prof.  
Crowell, C. R., BA MSc PhD Asst. Prof.  
Mathison, J. F., BA Asst. Prof.  
Sainsbury, E. J., MA PhD *Tor.* Asst. Prof.  
Stevenson, D. R., BSc *Tor.*, MSE *Mich.*,  
ScD *M.I.T.* Asst. Prof.  
Caruthers, J. A., MA *W.Ont.*, PhD Asst. Prof.  
Langbein, M. P., MSc PhD Asst. Prof.  
de Angelis, M. L., BSc *Lond.*, MEng †Lectr.  
Dohn, H., MSc *Berl.* Lectr.  
Telford, W. M., MSc PhD †Lectr.  
3 Demrs., 4 Res. Assocs.

### Physiology

MacIntosh, F. C., MA *Dal.*, PhD Drake Prof.  
Borgen, A. S. V., MB BS Prof.  
Burns, B. D., BA *Camb.* Prof.  
Dworkin, S., MSc DDS MD CM †Asst. Prof.  
Sekely, P., BE DrElectPhys *T.H.Karlsruhe*  
†Asst. Prof.  
Terroux, Mrs. Kathleen G., BA MSc  
PhD Asst. Prof.  
Grafstein, Bernice, BA *Tor.*, PhD Asst. Prof.  
Birks, R. I., BA MSc PhD Asst. Prof.  
McBride, C. M., MD CM *Dal.*, BSc Lectr.  
Pinsky, C., BSc *SirG.Wms.*, MSc Lectr.  
Reminger, E. J., MSc *Ill.*, PhD *Ohio* Lectr.  
Solandt, O., MA, MD *Tor.* †Lectr.  
2 Demrs.

**Physiotherapy**, see Phys. and Occupl.  
Therapy, below

**Political Science**, see Econ. and Pol. Sci.

**Psychology**, see also Medicine, below

Hebb, D. O., BA *Dal.*, PhD *Harv.*, MA Prof.  
Ferguson, G. A., BA *Dal.*, BED PhD *Edin.* Prof.  
Webster, E. C., MA PhD Prof.  
Bindra, D., PhD *Harv.* Assoc. Prof.  
Lambert, W. E., MA PhD *N.Carolina*  
Assoc. Prof.  
Poser, E. G., MA *Qu.*, PhD *Lond.* Assoc. Prof.  
Milner, P. M., BSc *Leeds*, MSc PhD

Assoc. Prof.  
Heron, W., MA PhD Asst. Prof.  
Rabinovitch, S., PhD *Indiana*, MA Asst. Prof.  
Douglas, Virginia, BA *Qu.*,  
MA MSW PhD *Mich.* Asst. Prof.  
Smith, D., BA *SirG.Wms.*, MA *Minn.*,  
PhD Asst. Prof.  
Stern, Mrs. Muriel, BSc Asst. Prof.  
Wigdor, Blossom, MA *Tor.*, BA PhD †Lectr.  
Richardson, Mrs. Patricia, BA *Tor.*,  
MA *Dal.* Sessl. Lectr.  
4 Demrs., 4 Res. Assocs.

### Romance Languages

Launay, J. E. L., LèsL Dipl'd'ÉtSup *Paris*  
(French) Prof.  
D'Andrea, A., PhD *Pisa* (Italian) Assoc. Prof.  
Harrop, L. B., MA *Interamericana (Mexico)*,  
DipEd *W.Aust.*, DipEstHisp *Santander*,  
BA (Spanish) Assoc. Prof.  
Larivière, Mrs. Hélène, LèsL Assoc. Prof.  
d'Hauterive, L., BèsL&Ph LicenDroit *Paris*,  
MA (French) Assoc. Prof.  
Reverchon, Marie-Thérèse, LèsL  
Dipl'd'ÉtSup *Paris* Assoc. Prof.  
Henry, Mrs. Robina E., MA *Dub.* Assoc. Prof.  
Champigneul, Yvonne, LèsL  
Dipl'd'ÉtSup *Toulouse* Asst. Prof.  
Rigault, A. A., LèsL Dipl'd'ÉtSup *Paris*  
(French) Asst. Prof., Dir. of French  
Summer Sch.  
Romer, T., LèsScPol&Soc *Lausanne* Asst. Prof.  
Stegen, G. F., BA *SirG.Wms.*  
(Spanish) Asst. Prof.  
Harvey, Monica, DPhil&Lit *Madrid*, BA  
Asst. Prof.  
Jackson, G. D., BA *Manit.*, MA *Tor.* Lectr.  
Rabotin, M., LèsL *Paris* Lectr.  
Deschamps, Nicole, BA LèsL *Laval*,  
Doct *Paris* Lectr.  
Ruiz-Fornells, E., BA *Seville*, PhD *Madrid*

### Social Work, see below

### Sociology and Anthropology

Westley, W., PhD *Chic.*, MA Assoc. Prof.  
Elkin, F., AM PhD *Chic.* Asst. Prof.  
Fried, J., AB *Temple*, PhD *Yale* Asst. Prof.  
Yatsushiro, T., BA *Redlands*, PhD *Corn.*  
Asst. Prof.  
Ross, Aileen D., BSc(Econ) *Lond.*, MA  
PhD *Chic.* Asst. Prof.  
Solomon, D. N., MA PhD *Chic.* Asst. Prof.



Roseborough, H., MA *Tor.*, PhD *Harv.*

Carisse, Mrs. Colette, MA *Laval* Asst. Prof.  
†Lectr.

**Spanish**, see Romance Langs.

**Zoology**, see also Macdonald Coll., Inst. of  
Parasitol., p. 203

Stanley, J., BA *Br.Col.*, MA PhD *Minn.* Prof.

Berrill, N. J., BSc *Brist.*, PhD DSc *Lond.*,  
FRSCan, FRS Strathcona Prof.

Dunbar, M., MA *Oxon.*, PhD, FRSCan Prof.

Marsden, Mrs. Joan C., PhD *Calif.*, MSc  
Asst. Prof.

Driver, P. M., BSc Lectr.

Maxwell, B., BSc *Alta.*, MA *Br.Col.*,  
PhD *N.Z.* Lectr.

## DENTISTRY

Johnston, W. J., DDS †Prof.

Franklin, G., DDS, FACD †Prof.

Gerrie, J. W., BA *DDS Alta.* MD CM  
DLO †Prof.

Ereaux, L. P., BSc MD CM Clin. Prof.

McCutcheon, J., MSD *Mich.*, BA DDS Prof.

Rogers, M. A., BA *Bishop's*, DDS Assoc. Prof.

Racey, A. G., DDS, FACD †Assoc. Prof.

Walford, W. F., DDS †Assoc. Prof.

Ambrose, E. R., DDS Asst. Prof.

Dagg, R. E., DDS †Asst. Prof.

Guilboard, T. I., BA *Loyola*, DDS †Asst. Prof.

Francis, L. E., DDS Asst. Prof.

Marchand, P. R., DDS †Asst. Prof.

McMahon, R. E., DDS †Asst. Prof.

Boyles, W. H., DDS †Asst. Prof.

Gitnick, P. J., DDS †Asst. Prof.

Henry, D. W., BA *Bishop's*, DDS †Asst. Prof.

Rosen, H., BSc DDS †Asst. Prof.

Lamb, R. T., BSc DDS †Lectr.

Abraham, J. W., MM, DDS †Lectr.

Armstrong, G. D., DDS †Lectr.

Cameron, A. F., DDS †Lectr.

Cleveland, E. T., DDS †Lectr.

Colle, A. J., DDS †Lectr.

Dorion, E. S., BA *Ott.*, DDS †Lectr.

Dundass, R. P., MDent *Mich.*, DDS †Lectr.

Edmison, R. S., BCom *Qu.*, DDS †Lectr.

Gill, L. A., BA DDS †Lectr.

Harvey, R. F., DDS †Lectr.

Hebert, M., BA *Loyola(Montr.)*, DDS †Lectr.

Houghton, V. †Lectr.

McCarthy, J. J., BSc *St.F.X.*, DDS †Lectr.

Millar, E. P., DDS †Lectr.

Richardson, A. D., DDS †Lectr.

Rosen, L. J., DDS †Lectr.

Shizgal, D. T., DDS †Lectr.

Stalker, A., BA BCC †Lectr.

Stewart, J. D., BSc DDS †Lectr.

Stockwell, W. G., DDS †Lectr.

Wiener, R. M., MS *Chic.*, DDS †Lectr.

30 Demrs.†

## Prosthetic Dentistry

Bushell, W. C., DDS Prof.

## ENGINEERING

**Architecture**, see above

**Chemical Engineering**, see also Chem.,  
above

Phillips, J. B., MBE, MSc PhD, FCIC Prof.

Douglas, W. J. M., BSc *Qu.*, MSE PhD *Mich.*

Asst. Prof.

Shelstad, K. A., BEng *Sask.*, MSc *Dal.*,  
PhD *Tor.* Asst. Prof.

1 Demr.

## Civil Engineering and Applied Mechanics

Craig, C., BA MEng William Scott Prof.

de Stein, J. L., BEng *Sask.*, MEng Prof.

Arcand, L. J., BSc MEng Assoc. Prof.

Pakalns, A., DiplCeng *T.U.Berlin*,  
DEngSc *Latvia* Assoc. Prof.

Wilson, V. W. G., SM *M.I.T.*, BSc Assoc. Prof.

Joly, G. W., BA *Loyola*, MEng Assoc. Prof.

Neilson, S. A., BSc Assoc. Prof.

Harris, P. J., BSc *Manit.*, MEng Assoc. Prof.

Mathison, W., BSc *Glas.* Asst. Prof.

Selby, D. A., BEng Asst. Prof.

Goldman, C., MEng Asst. Prof.

Yong, R., BA *Washington & Jefferson*,  
ScB(CivilEng) *M.I.T.*, MSc(CE)  
*Purdue* Asst. Prof.

Adjeleian, J., SM *M.I.T.*, BEng †Lectr.

Ahmed, S., BSc *McLagan Coll.* Lectr.

Stonehewer, J., BEng Lectr.

## Electrical Engineering

d'Ombra, G. L., BSc(Eng) PhD *Lond.*

Macdonald Prof.

Howes, F. S., DIC, PhD *Lond.*, MSc Prof.

Schuppel, W. H., BSc MEng Assoc. Prof.

Pavlasak, T. J. F., MEng Assoc. Prof.

Farnell, G. W., BAsc *Tor.*, SM *M.I.T.*

Assoc. Prof.

Barton, T. H., BEng PhD *Sheff.* Asst. Prof.

Comsa, R. P., DiplIng *E.T.H.Zürich*

Asst. Prof.

Silvester, P., BSc *CarnegieTech.Inst.* Lectr.

Adler, E. L., BSc *Lond.*, MAsc *Tor.* Lectr.

Blostein, M. L., BEng Lectr.

8 Demrs.

## Engineering Drawing

**Mathematics**, see above

## Mechanical Engineering

Mordell, D. L., MA *Camb.* Prof.

Bruce, W., MAsc *Tor.* Prof.

Newman, B. G., MA *Camb.*, PhD *Syd.* Prof.

Edis, A. R., BSc *Lond.*, BEng Assoc. Prof.

Stachiewicz, J. W., MEng Assoc. Prof.

Cherna, J. C., DiplIng *E.T.H.Zürich*

Assoc. Prof.

Covo, P. V., BEng	Assoc. Prof.	Clarkson, R., BA BCL	†Lectr.
Thompson, A. L., BA <i>Bishop's</i> , PhD		Cohen, J., QC, BCL	†Lectr.
	Assoc. Prof.	Colle, A. J., DDS	†Lectr.
Swithenbank, J., BSc <i>Birm.</i>	Assoc. Prof.	Common, F. B., BCL	†Lectr.
Wu, J. H. T., BSc <i>Tsinghua</i> , MAsc <i>Tor.</i>		Fels, S. S., BCL	†Lectr.
	Assoc. Prof.	Gazdik, J. G., DCL DrPolSc <i>Pécs</i> , MCL	†Lectr.
Forde, J. M., BEng	Asst. Prof.	Gould, G. H., BA BCL	†Lectr.
Glynn, B. C. C.	Asst. Prof.	Hitzig, S., BCom	†Lectr.
McKay, A. R., BEng	Asst. Prof.	Kierans, P. E., BCL	†Lectr.
Levine, S., MEng	†Lectr.	Kirkpatrick, J. G., BSc BCL	†Lectr.
Herbst, E.	Lectr.	LaChapelle, R., BA <i>Montr.</i> , BCL	†Lectr.
Howitt, F.	Lectr.	Lacroix, E., QC, BA	†Lectr.
Hyder, S. S., BS <i>Alig.</i>	Lectr.	Lapointe, M., BA <i>Montr.</i> , MCL	†Lectr.
Murphy, C. L., DIC, BSc <i>Manit.</i>	Lectr.	Leveque, R., LLB <i>Montr.</i>	†Lectr.
O'Shaughnessy, M. D., MEng	Sessl. Lectr.	McQuillan, W., BA <i>Loyola (Montr.)</i> , BCL	†Lectr.
Short, B., BEng	Lectr.		†Lectr.
3 Demrs.		Merifield, R. R., BA BCL	†Lectr.

### Mining and Metallurgical Engineering

Morrison, R. G. K., BASc <i>Tor.</i>		Merling, S., BA BCL	†Lectr.
	(Mining) Macdonald Prof.	Montgomery, T. H., MC, BA BCL	†Lectr.
MacEwan, J. U., BSc <i>Qu.</i> , MS <i>Montana</i>		Nolan, J. A., QC, BA BCL	†Lectr.
	(Metall.) Birks Prof.	O'Connor, J. B., BA <i>Loyola</i> , BCL	†Lectr.
Geldart, L. P., BA <i>Mt.All.</i> , MA <i>Tor.</i> , PhD	George Boyd Webster Prof.	Ouimet, R., BA Phil.	†Lectr.
Yates, H. H., BSc PhD	Assoc. Prof.	Owen, G. R., BCL MA	†Lectr.
Salman, T., MEng	Asst. Prof.	Soden, J. A., BCL	†Lectr.
Fastcal, C. D., BSc <i>Lond.</i>	Asst. Prof.	Spector, J. J., QC, BA BCL	†Lectr.
Siroz, L. L., BA <i>Montr.</i> , BEng	Lectr.	Tamaki, G. T., BA <i>Br.Col.</i> , LLB <i>Dal.</i> , LLM <i>Tor.</i>	†Lectr.
Smith, G. W., BEng	Sp. Lectr.	Tees, H., BA BCL	†Lectr.
5 Demrs.		Thorsteinsson, N. P., LLB <i>Br.Col.</i>	†Lectr.
		Tyndale, W. S., BA BCL	†Lectr.
		Vineberg, P., BCL MA	†Lectr.
		Weber, S. W., QC, LLM <i>Montr.</i> , BA	†Lectr.
		Weldon, A. M., BA BCL	†Lectr.

Physics, see above

### GRADUATE STUDIES AND RESEARCH

Thomson, D. L., BSc MA <i>Aberd.</i> , PhD <i>Camb.</i> , DSc <i>Colby</i> & <i>McM.</i> , LL.D <i>Aberd.</i> & <i>Middlebury</i> , FCIC, FRSCan	
Cheney Prof. of Biochem., Dean (Grad. instruct. and supervision of res. are undertaken by members of all Depts. of the Univ.)	

### LAW

Meredith, W. C. J., QC, MA <i>Camb.</i>	
	Macdonald Prof. of Law
Rosevear, A. B., LLB <i>Manit.</i> , BA	
	Assoc. Prof., Dir., Inst. of Internat. Air Law
Baudouin, L., DenDroit DèsScJur	
DesScPol <i>Paris</i>	Prof.
Cohen, M., BA LLB <i>Manit.</i> , LLM <i>Northwestern</i>	Prof.
Scott, F. R., BA <i>Bishop's</i> , BA BLitt <i>Oxon.</i> , Hon. LL.D <i>Dal.</i> , BCL, FRSCan	Prof.
Crepeau, P. A., BA LPh <i>Ott.</i> , LLL <i>Montr.</i> , BCL <i>Oxon.</i> , DenDroit <i>Paris</i>	Assoc. Prof.
Durnford, J. W., BA BCL	Assoc. Prof.
Cheffins, R. I., BA LLB <i>Br.Col.</i>	Asst. Prof.
Blumenstein, J. H., MA BCL	†Lectr.
Casgrain, P., BA LLL <i>Laval</i>	†Lectr.
Claxton, J. B., BCL	†Lectr.
Challies, Mr. Justice G. S., MA MCL	†Lectr.

### LIBRARY SCHOOL

Ross, Miss Vernon, BS(inLibSci) <i>Col.</i> , MA	
	Assoc. Prof., Dir.
Murray, Virginia, MA <i>Col.</i> , BLS	Assoc. Prof.
Astbury, Effie C., BA BLS	Asst. Prof.
Coughlin, Mrs. Violet L., BSc BLS	Asst. Prof.
Anderson, Beryl, MA <i>Dal.</i> , BLS	Lectr.

### MEDICINE

(For subjects of first 2 yrs.—Anat., etc., see above)

Stevenson, L. G., BA MD <i>W.Ont.</i> , PhD <i>Johns H.</i>	Dean of Fac.
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### Anæsthesia

Robson, J. G., MB ChB <i>Glas.</i> , FFARCS	
	Wellcome Prof.
Gilbert, R. G. B., MB BS <i>Lond.</i>	Assoc. Prof.
Cullen, W. G., BA MD <i>Tor.</i>	†Asst. Prof.
Davenport, H. T., MB ChB <i>Liv</i>	†Asst. Prof.
Ferguson, R., MBE, MD <i>Tor.</i>	†Asst. Prof.
Noble, A. B., MD <i>Tor.</i>	†Asst. Prof.
Power, D. J., MB ChB <i>Dub.</i>	†Asst. Prof.
Ellison, Gladys, MD <i>Manit.</i>	†Asst. Prof.
Bromage, P. R., MB BS <i>Lond.</i> FFARCS	
	†Asst. Prof.
Millar, R. A., MB ChB <i>Edin.</i>	†Asst. Prof.
O'Shaughnessy, P. E., MD CM	†Lectr.
Brindle, G. F., MD CM	†Lectr.

Kelly, J. J., BA *St.F.X.*, MD CM †Lectr.  
 Sutherland, J. B. L., BSc MD CM, †Lectr.  
 FRCP  
 3 Demrs.

### Anatomy, see above

### Bacteriology and Immunology

Reed, R. W., MA *Qu.*, MD CM Prof.  
 Stevenson, J. W., MD CM *Qu.* Assoc. Prof.  
 Kalz, Gertrude G., DPH *Prague*, MD  
 Assoc. Prof.  
 Blank, F., DSc(NatSci) DSc(TechSci) *E.T.H.*  
*Zürich* Asst. Prof.  
 Butas, Mrs. Constandina A., MD *Cluj* Asst. Prof.  
 Masson, Anne M., BA *Stras.*, MD *Paris* Asst. Prof.  
 Vas, S., MD PhD *Bud.* Asst. Prof.  
 Matheson, B. H., MSc *Dal.*, PhD Asst. Prof.  
 Kapica, L., BSc *Wales* Lectr.  
 Mankiewicz, Edith, MSc *Leip.*, MS *Lyons* †Lectr.  
 Morganti, O., MD *Rome*, MSc †Lectr.  
 Silov, R., MD *Dorpat (Tartu)* Lectr.  
 King, H. de L., PhD *Lond.*, MSc Lectr.  
 Prissick, Mrs. Frances H., BA MD CM Lectr.

### Biochemistry, see above

### Clinical Therapeutics

Fullerton, C. W., MD CM, FACP Assoc. Prof.

### Gynæcology, see Obstet. and Gynecol.

### Health and Social Medicine

Vivian, R. P., MD *Tor.* Strathecona Prof.  
 Fleming, D. S., DPH *Tor.*, BA MD CM  
 Assoc. Prof.  
 MacMillan, C. W., MD CM *Dal.*,  
 DPH *Tor.* Assoc. Prof.  
 Nix, Margaret E., BA MPH PhD *Mich.*  
 Assoc. Prof.  
 Bain, Mrs. Marian A., MSc *Col.*, BHS  
 Asst. Prof.  
 Burke, H. E., MD CM MSc PhD †Asst. Prof.  
 Townsend, M. G., MD CM †Lectr.  
 Wiener, F., MD CM †Lectr.  
 Jones, F. M. †Lectr.  
 1 Demr.

### Medicine

Browne, J. S. L., BA BSc(Med) MD CM  
 PhD, FACP, FRCPCan, FRSCan  
 (Investigative Med.) Prof.  
 Christie, R. V., MD *Edin.*, MSc Prof.  
 Cameron, D. G., MC, BSc *Oxon. & Sask.*,  
 MD CM, MRCP Prof.  
 Venning, Eleanor H., MSc PhD Prof.  
 Ereaux, L. P., BSc MD CM †Assoc. Prof.  
 Feeney, N., BA *Loyola (Montr.)* MD CM,  
 FACP †Assoc. Prof.

Forsey, R., MD *Tor.*, FRCPCan †Assoc. Prof.  
 Fullerton, C. W., MD CM, FACP †Assoc. Prof.  
 Hill, W. H. P., BA MD CM Assoc. Prof.  
 Halpenny, G. W., BSc MD CM,  
 FRCPCan, FACP Assoc. Prof.  
 Hoffman, M. M., BA MSc *Dal.*,  
 MD CM PhD †Assoc. Prof.  
 Howlett, J. G., MD CM MSc,  
 FRCPCan †Assoc. Prof.  
 Mitchell, H. S., BA MD *Qu.*, FACP †Assoc. Prof.  
 Rose, B., BA MD CM MSc PhD Assoc. Prof.  
 Bates, D. V., MB BChir *Camb.*, MD,  
 MRCP Assoc. Prof.  
 Bensley, E. IL, MBF, BA MD *Tor.*,  
 FRCP Assoc. Prof.  
 Johnson, A. L., MD CM Assoc. Prof.  
 Beck, J. C., MD CM MSc DipIntMed Assoc. Prof.  
 Copping, G. A., MD CM, FRCPCan Assoc. Prof.  
 Lowenstein, L., BA MD *Vanderbilt*,  
 FACP Assoc. Prof.  
 Townsend, S. R., BA MD CM, FACP †Assoc. Prof.  
 Adams, L. J., MD CM, FRCPCan,  
 FACP †Asst. Prof.  
 Bennetts, R. C., AB *Calif.*, MD CM †Asst. Prof.  
 Burke, H. E., MD CM MSc PhD †Asst. Prof.  
 Craig, G. E., BCom MD CM DTM †Asst. Prof.  
 Johnson, L. G., BSc MD CM,  
 FRCPCan †Asst. Prof.  
 Kalz, F., MD *Prague* †Asst. Prof.  
 Mackenzie, K. R., BA MD CM PhD †Asst. Prof.  
 Meakins, J. F., MA *Camb.*, MD CM,  
 FRCPCan †Asst. Prof.  
 Pattee, C. J., BA *Bishop's*, MD CM  
 MSc †Asst. Prof.  
 Segall, H. N., MD CM, FACP †Asst. Prof.  
 Smith, F. McL., MD CM MSc, FACP †Asst. Prof.  
 Usher, B. D., BA MD CM †Asst. Prof.  
 Power, D. J., MB BCh *Dub.* †Asst. Prof.  
 Bourne, F. M., BA *Oxon.*, BA MD CM,  
 FRCPCan †Asst. Prof.  
 Milne, I. G., MD CM †Asst. Prof.  
 Thom, A. T., MD *Tor.*, BA †Asst. Prof.  
 Giroud, C. J. P., PCB *Paris*, PhD †Asst. Prof.  
 Kalant, N., MD BSc *Tor.*, PhD †Asst. Prof.  
 Fowler, A. F., MD CM, FRCPCan Asst. Prof.  
 McGregor, M., MD *Rand* Asst. Prof.  
 McGarry, Eleanor, BSc MD CM Asst. Prof.  
 McKenna, R. D., BA *Montr.*, MD CM,  
 FRCPCan †Asst. Prof.  
 Richter, M., BSc PhD Asst. Prof.  
 McCallum, J. L., BA MD CM,  
 FRCPCan †Asst. Prof.  
 Aronovitch, M., BSc MD CM, FRCPCan †Lectr.  
 Barker, C. S., BA MD CM, FRCPCan,  
 FACP †Lectr.  
 Brahander, J. O. W., MD CM †Lectr.  
 Cleghorn, R. A., MD *Tor.*, DSc *Aberd.* †Lectr.  
 Edwards, P. A., BSc *N.Y.*, MD CM †Lectr.

Gordon, A. L., BSc MD CM, FRCPCan †Lectr.  
 Harbert, R. G. M., BSc MD CM †Lectr.  
 McLellan, W. G., BA MD CM †Lectr.  
 Martin, J., MD CM †Lectr.  
 Miller, A., MD CM, FRCP †Lectr.  
 Morgen, R. O., BA *Ohio*, MD *Cleveland* †Lectr.  
 Notkin, M., MD CM †Lectr.  
 Quantin, T. J., MD CM, FACP †Lectr.  
 Sowden, K. A., MB BS *Lond.* †Lectr.  
 Shapiro, L., MD CM †Lectr.  
 Stalker, M. R., MD CM †Lectr.  
 Weil, P. G., BA *N.Carolina*, MSc MD CM PhD †Lectr.  
 Wight, G. E., OBE, MD CM †Lectr.  
 Woodhouse, D. H., MD *W.Ont.* †Lectr.  
 Ballem, C. M., MD CM *Dal.*, DiplIntMed †Lectr.

Baxter, R. G., MD CM †Lectr.  
 Beck, I., MD *Geneva* †Lectr.  
 Becklake, Margaret, MD *Rand* †Lectr.  
 Brown, S., BSc MD CM †Lectr.  
 Bruntton, L., MD CM DiplIntMed †Lectr.  
 Gold, A., MD CM MSc, FRCPCan †Lectr.  
 Gold, M., MSc MD CM †Lectr.  
 Lapin, A. W., BA MD CM, MRCP, FRCPCan †Lectr.  
 Leth, W., BA *Mt.All.*, MD CM *Dal.* †Lectr.  
 Levitan, B. A., BSc MD CM †Lectr.  
 Macdonald, A. D., MD CM †Lectr.  
 MacDonald, C. C., MD CM †Lectr.  
 MacIntosh, D. J., BA *St.F.X.*, MD CM DiplIntMed, FRCPCan †Lectr.  
 Pare, J. P. A., BSc MD CM †Lectr.  
 Place, R. E. G., BA MD CM DiplIntMed, FRCPCan †Lectr.  
 Polson, J. S., BA MD CM †Lectr.  
 Reid, E. A. S., BA MD CM †Lectr.  
 Brandt, J. L., AB *Mich.*, MD *LongIsland Coll.* †Lectr.  
 Caswell, L. A., MD CM *Qu.* †Lectr.  
 Chappel, C., DVM *Tor.*, MSc †Lectr.  
 Schucher, R., MSc *Sask.*, BSc PhD †Lectr.  
 Stachenko, Mrs. Janine, BSc *Paris*, PhD †Lectr.  
 37 Demrs.

### Neurology and Neuro-Surgery

Fendel, W. H., BA *Acad.*, MSc *Dal.*, DPhil *Oxon.*, MD CM William Cone Prof.  
 Jasper, H. H., AB *Reed*, MA *Oregon*, PhD *Iowa*, DSc *Paris*, MD CM (Exper. Neurol.) Prof.  
 Rasmussen, T. B., MD MS *Minn.* Prof., Dir. of Neurol. Inst.  
 McNaughton, F. L., BA MSc MD CM (Neurol.) †Prof.  
 Elvidge, A. R., MD CM MSc PhD, FRCSCan (Neurol.) †Assoc. Prof.  
 McRae, D., MD *W.Ont.* Assoc. Prof.  
 Cosgrove, J. B. R., MD *Manit.*, MSc *Manit. & Camb.* Asst. Prof.  
 Elliott, H. W., BSc MD CM (Neurol.) †Asst. Prof.  
 Lloyd-Smith, D. L., MD CM, FRCP †Asst. Prof.

Robb, J. P., MD CM MSc (Neurol.) †Asst. Prof.  
 Tatlow, W. F., MD *Lond.* †Asst. Prof.  
 Young, A. W., MD CM, FRCPCan (Neurol.) Asst. Prof.  
 Gloor, P., MD *Lausanne* Asst. Prof.  
 Mathieson, G., MB ChB *Aberd.* Asst. Prof.  
 Bertrand, G., MD *Montr.*, MSc Asst. Prof.  
 Graham, B., BA MD CM *Dal.* †Lectr.  
 Heller, I. H., DSc MD CM †Lectr.  
 Howell, D. A., MB BS *Lond.* †Lectr.  
 Milner, Brenda, MA *Camb.*, PhD †Lectr.  
 Pappius, Hanna, MSc PhD †Lectr.  
 Rabinovitch, R., BA *N.Y.*, MD *Paris*, MSc †Lectr.  
 Blundell, J., MA MD *Camb.*, MRCP, FRCS †Lectr.  
 Branch, C., MSc MD *Vanderbilt* †Lectr.  
 Sproul, D., MD *Manit.* †Lectr.  
 9 Demrs., 1 Teaching Fellow, 1 Res. Fellow

### Obstetrics and Gynæcology

Maughan, G. B., MSc MD CM, FACS Prof.  
 Ward, C. V., BA *Bishop's*, MD CM, FRCSCan, FACS †Assoc. Prof.  
 Foote, W. R., BA *Br.Col.*, MD CM, FACS †Assoc. Prof.  
 Latour, J. P. A., BSc MD CM Assoc. Prof.  
 MacFarlane, K. T., MD *W.Ont.*, FACS †Assoc. Prof.  
 Simpson, G. A., MD CM, FRCOG, FACS †Assoc. Prof.  
 Streat, G. J., BA MD CM, FACS, FRCSCan †Asst. Prof.  
 Primrose, T., BSc MB ChB *Edin.* Asst. Prof.  
 Sparling, D. W., MD *Tor.*, FACS Asst. Prof.  
 Macarthur, J. L., MD *W.Ont.*, FRCSCan, FACS Asst. Prof.  
 Hendelman, M., BA MD CM †Lectr.  
 Routledge, J. H., MD CM, FRCSCan †Lectr.  
 Tweedie, F. V., BA *New Br.*, MD CM †Lectr.  
 Blahey, P. R., BA *Sask.*, MD *Tor.*, FRCSCan †Lectr.  
 Donnelly, Grace, MD CM †Lectr.  
 Gold, S., BSc MD CM †Lectr.  
 Young, M. H. V., BA MD CM †Lectr.  
 16 Demrs.

### Ophthalmology

Locke, J. C., MD CM †Prof.  
 Alexander, B., BSc MD CM †Assoc. Prof.  
 Nicholls, J. V. V., BA MSc MD CM †Assoc. Prof.  
 Viger, R. J., MD CM Asst. Prof.  
 Kirschberg, L. S. S., MD CM †Lectr.  
 Turnbull, W., MD CM †Lectr.  
 Adams, S. T., MD CM †Lectr.  
 Bourne, R. A., BA MD CM †Lectr.  
 Murphy, S. B., SB *Harv.*, MD CM †Lectr.  
 7 Demrs.

### Oto-Laryngology

McNally, W. J., BA MD CM *Dal.*, LLD *St.F.X.*, DSc, FRCSCan †Prof.

Scharfe, E. E., MD CM DLO	†Assoc. Prof.	Statten, T., MD <i>Tor.</i>	Assoc. Prof.
Tremble, G. E., MD CM DLO, FRCSCan		Wittkower, E., MD <i>Berl.</i>	Assoc. Prof.
	†Asst. Prof.	Dancey, T. E., MD CM	†Assoc. Prof.
Stuart, E. A., MA <i>New Br.</i> , MD CM,	Asst. Prof.	Lehmann, H., MD <i>Berl.</i>	Assoc. Prof.
FRCSCan, FRCSEd		MacLeod, A. W., BSc MB ChB DPH <i>Glas.</i> ,	
McHugh, H. E., BSc MD CM DLO	†Lectr.	DPM <i>Lond.</i>	†Assoc. Prof.
Shaver, F. W., MD CM	†Lectr.	Saffran, M., MSc PhD	Assoc. Prof.
3 Demrs.		Sourkes, T. L., PhD <i>Corn.</i> , MSc	†Assoc. Prof.

**Pædiatrics**

Ross, A., MD CM	Prof.	Kral, V. A., MD <i>Prague</i>	†Asst. Prof.
Denton, R. L., BSc MD CM	†Assoc. Prof.	Aufreiter, J., MD	†Asst. Prof.
Geddes, A. K., MD CM	†Assoc. Prof.	Boag, T. J., MB ChB <i>Liv.</i>	†Asst. Prof.
Worden, E. M., MD <i>Tor.</i>	Assoc. Prof.	Bos, C. G., BA MD CM	†Asst. Prof.
Johnson, A. L., MD CM MSc	†Assoc. Prof.	Azima, H., BA <i>Calif.</i> , MD <i>Kansas</i> , MSc	
MacDermot, P. N., MD CM	†Asst. Prof.		Asst. Prof.
Bacal, H. L., MBE, BA MD CM	†Lectr.	Caplan, H., MD CM	†Asst. Prof.
Benjamin, B., BA MD CM	†Lectr.	Cormier, B., BA MD <i>Montr.</i>	Asst. Prof.
O'Neill, J. H., BSc <i>St.F.X.</i> , MD CM	†Lectr.	Edgell, P. G., BA <i>Bishop's</i> , MD CM	Asst. Prof.
16 Demrs., 3 Teaching Fellows		Epstein, N., MD CM <i>Dal.</i>	Asst. Prof.
		Ellenberger, H. F., MD	Asst. Prof.
		Hisey, L. G., MD <i>Tor.</i>	Asst. Prof.
		Davis, J. F., MEng	Asst. Prof.
		Roberts, C. A., BSc MD CM <i>Dal.</i>	Asst. Prof.
		Murphy, H. B. M., MB ChB <i>Edin.</i> ,	
		DPII <i>Lond.</i> , PhD <i>N.Y.</i>	†Asst. Prof.

**Parasitology**, see Macdonald Coll., Inst.  
of Parasitol., p. 202

**Pathology**

McMillan, G. C., MD CM MSc PhD	Strathcona Prof.	Barza, S., BSc MD CM	†Lectr.
		Beaubien, J., BSc MD CM DiplPsych	†Lectr.
Ritchie, A. C., MB ChB <i>N.Z.</i> , DPhil <i>Oxon.</i>		Hamilton, R. C., MSc MD <i>Alta.</i>	†Lectr.
	Fraser Assoc. Prof.	Hunt, B. R., BM BCh <i>Oxon.</i>	†Lectr.
Wiglesworth, F. W., MD <i>Manit.</i>	†Assoc. Prof.	Hunter, R. C. A., MD CM	†Lectr.
Mathews, W. H., MD CM	†Assoc. Prof.	Kravitz, H., BA MD CM	†Lectr.
Pirozynski, W., MD <i>Zür.</i>	Asst. Prof.	Mann, A., MD CM	†Lectr.
Kahn, D. S., BA <i>Sask.</i> , MD <i>Tor.</i>	Asst. Prof.	Mergler, L., BSc MD CM	†Lectr.
Sheldon, H., MD <i>Johns H.</i> , BA	Asst. Prof.	Sarwer-Foner, G. J., BA MD <i>Montr.</i>	†Lectr.
Schopflicher, Paula H., MD <i>Heidel.</i>	†Lectr.	Skitch, C. H., BA MD <i>Alta.</i>	†Lectr.
Mathieson, G., MB ChB <i>Aberd.</i>	Lectr.	Smith, C. C., BA <i>Ohio</i> , MD CM	†Lectr.
Simon, M. A., BA MD <i>Western Reserve</i>	†Lectr.	Straker, M., MD CM	†Lectr.
Ritchie, Susan, MD <i>Munich</i>	Lectr.	Taylor, G. C., BSc MD CM	†Lectr.
3 Demrs., 2 Teaching Fellows		Wilner, S., BA MD CM DiplPsych	†Lectr.
		Birmingham, Marion, BA <i>Bennington</i> ,	
		MSc PhD	†Lectr.

**Pharmacology and Therapeutics**

Melville, K. I., MD CM MSc (Pharmacol.) Prof.		Grad, B., BSc PhD	†Lectr.
Benfey, B. G., MD <i>Hamburg</i>	Asst. Prof.	Cahn, C. H., MD <i>Tor.</i>	†Lectr.
Eade, N. R., MSc <i>Sask.</i> , DPhil <i>Oxon.</i>	Asst. Prof.	Durost, H. B., MD	†Lectr.
Joron, G., BA <i>Loyola (Montr.)</i> , MD CM		Pirnicki, D., MD <i>Belgrade</i>	†Lectr.
	†Lectr.	Prince, R. H., MD MSc BA <i>W.Ont.</i>	†Lectr.
		Stanley, J. C., MB BCh <i>N.U.I.</i>	†Lectr.
		14 Demrs., 1 Res. Assoc.	

**Physiology**, see above

**Physiotherapy**, see Physical and Occupational  
Therapy, below

**Psychiatry**

Cameron, D. E., MD <i>Glas.</i> , DPM <i>Lond.</i> ,		Bouchard, J. J. L., MD <i>Laval</i> ,	
FRCPCan		DMRE <i>Camb.</i>	†Assoc. Prof.
Prof., Dir., Allan Memorial Inst. of		McRae, D. L., MD <i>W.Ont.</i>	†Assoc. Prof.
Psychiatry		Sieniewicz, D. J., BA <i>New Br.</i> ,	
Moll, A. E., BCL MD CM	†Prof.	MD CM <i>Dal.</i>	Assoc. Prof.
Cleghorn, R. A., MD <i>Tor.</i> , DSc <i>Aberd.</i>	Prof.	Crutchlow, E. F., OBE, BA MD CM	†Asst. Prof.
Hoffman, M. M., BA MSc <i>Dal.</i> , MD CM		Dunbar, J. S., MD <i>Tor.</i>	†Asst. Prof.
PhD	Assoc. Prof.	Fraser, R. G., MD <i>Manit.</i> , DipRad	†Asst. Prof.
Malmo, R. B., MA <i>Missouri</i> , PhD <i>Yale</i>		Stephens-Newsham, L. G., BA <i>Sask.</i> ,	
(Psychol.) Assoc. Prof.		PhD	(Phys.) †Asst. Prof.
Silverman, B., MD CM	†Assoc. Prof.	Brown, N., BA MD CM	†Lectr.
		Cunningham, R. M., MD <i>Tor.</i>	†Lectr.

**Radiology**

Peirce, C. B., AB MSc MD <i>Mich.</i> , FACP,			
FRCPCan			†Prof.
Bouchard, J. J. L., MD <i>Laval</i> ,			
DMRE <i>Camb.</i>			†Assoc. Prof.
McRae, D. L., MD <i>W.Ont.</i>			†Assoc. Prof.
Sieniewicz, D. J., BA <i>New Br.</i> ,			
MD CM <i>Dal.</i>			Assoc. Prof.
Crutchlow, E. F., OBE, BA MD CM			†Asst. Prof.
Dunbar, J. S., MD <i>Tor.</i>			†Asst. Prof.
Fraser, R. G., MD <i>Manit.</i> , DipRad			†Asst. Prof.
Stephens-Newsham, L. G., BA <i>Sask.</i> ,			
PhD			(Phys.) †Asst. Prof.
Brown, N., BA MD CM			†Lectr.
Cunningham, R. M., MD <i>Tor.</i>			†Lectr.

Hale, B. B., BSc MD CM  
Lougheed, M. N., MD CM  
2 Demrs.

†Lectr.  
†Lectr.

**Surgery**

Robertson, H. R., BSc MD CM Prof.  
Webster, D. R., OBE, BA MD CM *Dal.*,  
MSc PhD, FRCSCan (Exper. S.) †Prof.  
Martin, S. J., MD CM, FRCSEd,  
FRCSCan †Assoc. Prof.  
Murphy, D. R., MD CM, FRCS Assoc. Prof.  
Wilkie, A. L., BA *St.F.X.*, MD CM

†Assoc. Prof.  
†Assoc. Prof.

Gurd, F. N., MSc *Penn.*, MD CM †Assoc. Prof.  
McCorriston, J. R., BA *Sask.*, MD CM  
MSc, FRCSCan †Assoc. Prof.  
Baxter, S. G., MD CM MSc PhD †Asst. Prof.  
Gerrie, J. W., BA DDS *Alta.*, MD CM

†Asst. Prof.

Luke, J. C., MBE, BA MD CM,  
FRCSCan, FRCS †Asst. Prof.  
McIntosh, C. A., BA MD CM †Asst. Prof.  
McNaughton, E. A., MD CM,  
FRCSCan †Asst. Prof.

Morton, H. S., OBE, BA MSc *Dal.*,  
MB *Lond.*, FRCS, FRCSCan,  
FACS †Asst. Prof.

Moseley, H. F., MA DM MCh *Oxon.*,  
BA, FRCS, FRCSCan, FACS †Asst. Prof.  
Petric, J. G., MD CM †Asst. Prof.  
Shannon, J. G., MD *Tor.*, FACS †Asst. Prof.  
Holland, G. A., BCom MD CM,  
FRCSCan †Asst. Prof.

Palmcr, J. D., BA *New Br.*, MD CM †Asst. Prof.  
Baxter, H. A., DDS MD CM MSc †Lectr.  
Butler, A. A., MD CM †Lectr.

Couper, W. M., BSc MD CM, FRCSEd,  
FRCSCan †Lectr.  
Dickson, J. C., MD CM, FRCSCan †Lectr.  
Little, G. D., MD CM, FACS †Lectr.

MacDonald, S. A., MB ChB *Edin.*, BA,  
FRCSCan †Lectr.  
Suttrn, J. C., BA MD CM †Lectr.  
Vineberg, A. M., MD CM MSc PhD,  
FACS †Lectr.

Walker, J. A. L., BA MD CM, FACS,  
FRCSCan †Lectr.  
Woolhouse, F. M., BSc *Sask.*, MD CM,  
FRCPCan †Lectr.  
21 Demrs., 1 Res. Assoc.

**Therapeutics**, see Pharmacol. and Therap.,  
above

**Urology**

Reid, R. G., MD CM Asst. Prof.  
MacDonald, S. A., MB ChB *Edin.*, BA,  
FRCSCan †Lectr.  
McLean, J. T., MD *Manit.* Lectr.

**PHYSICAL AND OCCUPATIONAL  
THERAPY**

Fisk, G. H., BA MD CM  
†Assoc. Prof., Dir. of Sch.

Gault, Helen M., BSc(P&OT) Asst. Prof.  
Gemeroy, Mrs. Helen M., BA *SirG.Wms.*,  
MA *Col.*, DipAdmin Asst. Prof.  
Aston, Edith P., DiplP&OT Lectr.  
Dunkin, Elizabeth Lectr.  
Pearce, Mrs. Irma P. Lectr.  
Perodeau, Mrs. Sally Lectr.  
Ward, Joan Lectr.

(Instrucn. is given by members of the Fac. of  
Med., Sch. for Grad. Nurses and Sch. of  
Phys. Educn.)  
6 Demrs.

**PHYSICAL EDUCATION**

Griffiths, H. E., MA *Middlebury*, BCom  
Assoc. Prof., Dir. of Athletics  
Munroe, Iveagh, BSc MA *Col.*,  
Dip *McG.Sch.ofPhys.Educn.*  
Assoc. Prof., Dir. of Athletics for  
Women

Wood, Winona, BED *Sask.*, MA *Col.* Assoc. Prof.

Bean, Gladys, MA *Col.*, Dip *McG.Sch.of  
Phys.Educn.* Asst. Prof.  
Ryan, H. R., BA *Acad.*, BPE *Springfield*

Asst. Prof.  
Wagner, Thelma, BSc MA *N.Y.* Asst. Prof.  
Wilkinson, R. E., MA *Col.*, BSc Asst. Prof.  
7 Instrs.

**SCHOOL FOR GRADUATE NURSES**

Chittick, Miss Rae, BS *Col.*, MA *Stan.*,  
I.L.D *Alta.*, MPH *Harv.* Prof., Dir.  
Allen, Moyra, MA *Chic.* Assoc. Prof.  
Logan, Elizabeth, BSc *Acad.*, MN *Yale* Asst. Prof.

Maxwell, Mrs. Kathleen, BScN *Alta.*,  
MN *Wash.* Asst. Prof.  
Rowles, Dorothy, BN Lectr.  
McCallum, Helen, BA *W.Ont.* Lectr.  
MacDonald, Joan, BN Lectr.

**SOCIAL WORK**

Moore, J. J. O., AB *Missouri*, MA *Denver*,  
EdD *Col.* Prof., Dir.  
Kirk, H. D., BSc *N.Y.*, MA PhD *Corn.*  
(on leave) Assoc. Prof.  
Lightman, J. B., AB I.L.B *George Washington*,  
MSS *N.Y.* (on leave) Assoc. Prof.  
Younge, Eva R., BA *Alta.*, MA Assoc. Prof.  
Freeman, Mrs. Dorothy R., BA DipSocWk Assoc. Prof.

Gifford, C. G., DFC, MSW *Pitt.*, BA Assoc. Prof.  
Griffiths, Margaret, BA *W.Ont.*, MA(SSW)  
*Chic.*, DipSocWk *Tor.* Assoc. Prof.  
Katz, M., BA *SirG.Wms.*, PhD *Col.*,  
MSW Assoc. Prof.  
Ross, Verity M., BSc *Col.*, MSc PhD Asst. Prof.

Stevenson, Mrs. Mary, BA *Sask.*, MSW  
DipSocWk *Tor.* Asst. Prof.  
Tuck, Helen H., BA *Manit.*, MSW  
Assoc. Prof.

Rotman, A., BA *SirG.Wms.*,  
MS *Western Reserve* Sp. Lectr.  
Woodhouse, D. F., BSc MSW Sp. Lectr.

## ADMINISTRATIVE AND OTHER STAFF (Montreal)

Asst. Registrar : Virginia Cameron, BA. Dir.  
of Univ. Extension : Assoc. Prof. H. R. C.  
Avison, MA. Supt. of Bldgs. and Grounds :  
P. A. Cunningham. Librarian, Osler Library :  
..... Sec., McGill Graduates' Soc. : D. L.  
Gales, BA BCL. Chief Accountant : D. C. Bain,  
BA. Purchasing Agent : W. A. Barclay, BSc  
(Agr). Univ. Chaplain and Student Counsellor :  
E. C. Knowles, BD *Tor.*, MA DD. Dir. of Univ.  
Placement Service : R. C. Coleman, DSO, MC,  
LLB *Dal.*, BA. Dir. of Athletics, Phys. Educn.  
and Recreation : H. E. Griffiths, MA *Middlebury*,

BCom. Warden of Royal Victoria Coll. : Muriel  
V. Roscoe, AM PhD *Radcliffe*, DSc *Acad.*, LLD  
*Qu.* McGill Univ. Representative in Gt. Britain :  
H. E. C. Rubie, BSc *Oxon.* Student Aid Officer :  
J. D. Cleghorn, ED. Sec.-Treasurer of McGill  
Students' Soc. : W. T. Hastings, BA *Dalh.*  
Asst. Univ. Librarian : Beatrice V. Simon, MA  
DipLS. Dir. of Student Health Service : R. P.  
Vivian, MD *Tor.* Warden of Douglas Hall :  
W. S. Reid, ThM *Westminster (Pa.)*, PhD *Penn.*,  
MA.

## MACDONALD COLLEGE

Postal Address : Macdonald College, P.Q., Canada

Telephone : Glendale 3-5335

Vice-Principal, and Dean, Fac. of Agric.—H. G. Dion, BSc *Sask.*, PhD *Wis.* Sec.—R. L. Puxle  
Registrar—.....

### AGRICULTURE

#### Agricultural Bacteriology

Blackwood, A. C., MSc *Alta.*, PhD *Wis.* Prof.  
..... Assoc. Prof.  
Knowles, R., BSc *Birm.*, PhD *Lond.* Asst. Prof.  
Jones, G. A., BSc *Leeds*, MSc Lectr.

#### Agricultural Chemistry

Common, R. H., BSc MAgr *Belf.*, PhD  
DSc *Lond.*, FRIC Prof.  
Dion, H. G., BSc *Sask.*, PhD *Wis.* Prof.  
De Long, W. A., BSA *Tor.*, PhD *Minn.*,  
MSc Prof.  
Baker, B. E., BSc *Bishop's*, PhD *Laval*  
Assoc. Prof.  
Henneberry, G. O., BSc *Dal.*, MSc Lectr.  
2 Demrs.

#### Agricultural Economics

MacFarlane, D. L., BSA MSc *Sask.*,  
PhD *Minn.* Prof.  
Haver, C. B., BSc *Sask.*, MSc *Calif.*,  
PhD *Iowa* Assoc. Prof.

#### Agricultural Engineering

Banting, E. A., BSA *Tor.* Prof.  
Cooper, J. H., BSc(Agr) Assoc. Prof.  
Malloch, A. C., BSc *Qu.* Asst. Prof.

#### Agricultural Physics

Rowles, W., BSc *Sask.*, MSc PhD Prof.

Warkentin, B. P., BSA *Br.Col.*, MS *Wash.*,  
PhD *Corn.* Asst. Prof.  
Carter, A. L., MSc PhD Asst. Prof.

#### Agronomy

Steppler, H. A., BSA *Manit.*, MSc Prof.  
Brawn, R. I., BS *Penn.State* Assoc. Prof.  
Klinck, H. R., BSA *Tor.*, MSc Asst. Prof.  
Bubar, J. S., MS *Penn.*, BSc Asst. Prof.

#### Animal Husbandry

Hamilton, L. H., BSA *Tor.*, MS *Wis.* Assoc. Prof.  
MacDonald, M. A., MSA *Br.Col.*,  
PhD *Oregon State* Assoc. Prof.  
Moxley, J. E., BSc(Agr) Asst. Prof.  
Anastassiadis, P. A., BAgr *Athens*,  
'Med *Rutgers* Asst. Prof.

#### Animal Pathology

Dale, D. G., DVM *Tor.* Asst. Prof.

#### Animal Science

Mercier, E., BA BSA *Laval*, MSc  
PhD *Corn.* Prof.

#### English

..... Assoc. Prof.  
Dubreuil, Mrs. Margaret, MA *Aberd.* †Lectr.  
Godfrey, A. R., BA *Alta.*, MA *Tor.* Lectr.

**Entomology**

Keevan, D. K. M., BSc *Edin.*, PhD *Nott.* Prof.  
 DuPorte, E. M., BSA MSc PhD Prof.  
 Morrison, F. O., BA MSc(Agr) *Alta.*,  
 PhD Assoc. Prof.  
 Bagelow, R. S., BSc(Agr) Assoc. Prof.  
 McFarlane, J. E., MA *Sask.*, PhD *Ill.* Asst. Prof.

**Horticulture**

Murray, H. R., BSA *Tor.*, MSc *Corn.* Assoc. Prof.  
 Taper, C. D., MScAgr *Br.Col.*, PhD *Manit.*  
 Assoc. Prof.  
 David, J., LSA *Montr.*, PhD *Calif.* Asst. Prof.  
 Harney, Patricia M., BSc(Agr) Lectr.

**Nutrition**

Crampton, E. W., BS *Conn.*, MS *Iowa*,  
 PhD *Corn.*, FCIC, FRSCan Prof.  
 Lloyd, L. E., BSc(Agr) MSc PhD Assoc. Prof.  
 Donefer, E., MS *Corn.* Lectr.

**Plant Pathology**

Sackston, W. E., BSA *Manit.*, MSc  
 PhD *Minn.* Prof.  
 Cookson, J. G., MA *Qu.*, DSc *Montr.* †Prof.  
 Pelletier, R. L., PhD *Wis.*, MSc Assoc. Prof.  
 Callen, E. O., BSc PhD *Edin.*, FLS Asst. Prof.  
 Stey, R. H., BSc MS *Maine*, PhD Asst. Prof.  
 † Asst.

**Poultry Husbandry**

Nikolenczuk, N., MSc *Alta.*,  
 PhD *Ohio State* Assoc. Prof.  
 Pomer, R., BA BAS *Montr.*, MS  
 PhD *Iowa* Assoc. Prof.

**Woodlot Management and Morgan Arboretum**

Jones, A. R. C., BSc *Tor.* Lectr.

**INSTITUTE OF PARASITOLOGY**

Cameron, T. W. M., TD, MA DSc *Edin.*,  
 BSc(VetSci) PhD *Lond.*, FRSCan Prof., Dir.  
 Laird, M., PhD DSc *N.Z.* Assoc. Prof.  
 Fauburn, D., BA *Qu.*, PhD *Roch.* Assoc. Prof.  
 Harpur, R. P., BSc *N.Z.*, MSc PhD Asst. Prof.  
 Schad, G. A., BSc *Corn.*, MSc PhD Asst. Prof.  
 Tanner, C. E., BSc *Purdue* Asst. Prof.  
 † Asst.

**HOUSEHOLD SCIENCE**

Neilson, Helen R., MBE, BHS MSc  
 Prof., Dir. of Sch.  
 Honey, F. Isabel, MA *Tor.*  
 (Home Econ.) Assoc. Prof.  
 Devercaux, Helen L., MA *Tor.* Asst. Prof.  
 Jenkins, Marjorie M., BSc(HEc) MSc *Alta.*  
 Asst. Prof.  
 Empey, Marion, BSc *Alta.* Lectr.  
 Stewart, Margaret R., BHS † Lectr.  
 Tucker, Frances A., BSc(HEc) Lectr.  
 Young, Mrs. Helen G., BSc(HEc) Lectr.

**INSTITUTE OF EDUCATION**

Munroe, D. C., MA  
 Macdonald Prof. of Educn., Dir. of Inst.  
 Edwards, R., BSc *Lond.*, MEd *Manc.* Prof.  
 Hall, C. W., MA *Bishop's* Prof.  
 Hanson, F. K., MusD (Music) Prof.  
 Henry, A. M., BA *Lond.*, MA (Educn.) Prof.  
 Hawkins, S. C. McL., DU *Paris*, MA  
 Assoc. Prof.  
 Young, J. E. M., BA *McM.*, MEd *Sask.*,  
 PhD *Tor.* Assoc. Prof.  
 Bowers, Phyllis, BA *Qu.* Asst. Prof.  
 Crook, Frances E., BA *Bishop's*,  
 MSc *Bryn Mawr* Asst. Prof.  
 Duncan, Ruth, BA *Manit.*, BSc(PED) Asst. Prof.  
 Nash, P., BSc(Econ) DipEd *Lond.*,  
 MEd *Tor.* Asst. Prof.  
 Wisenthal, M., BA *SirG.Wms.* Asst. Prof.  
 Horton, Marguerite F. L., BA *Qu.*,  
 MA *Col.* Asst. Prof.  
 Jaques, A. Elizabeth Asst. Prof.  
 Morrison, H., BA *Bishop's* Asst. Prof.  
 Nash, P., BSc(Econ) *Lond.*, MEd *Tor.*  
 Asst. Prof.  
 McElroy, G. E. W., BA *Qu.* Lectr.  
 Nichol, Dorothy A., BSc(PED) Lectr.  
 Overing, R., BA *SirG.Wms.*, MA Lectr.  
 Pedersen, E., BA *SirG.Wms.* Lectr.  
 Pugh, R. W. Lectr.  
 Tomkins, Muriel, BA *SirG.Wms.*,  
 MA *Wis.* Lectr.  
 Walker, Margaret C., BPhysEd *Tor.* Lectr.  
 Doxsee, Rev. F. A. C., BA *Tor. & Oxon.*  
 (Relig. Instrucn.) Hon. Lectr.  
 Kerr, J., BA (Relig. Instrucn.) Lectr.  
 5 Demrs.

**ADMINISTRATIVE AND OTHER STAFF  
(Macdonald College)**

Physician in the Macdonald Health Service :  
 G. L. Fortier, BSc MD CM. Librarian :  
 Mrs Muriel Wells, BA BEd *Sask.*, BLS. Asst.  
 Supt of Bldgs and Grounds : G. T. F. Wright.

Warden, Brittain Hall : R. Knowles, BSc *Birm.*,  
 PhD *Lond.* Warden, Stewart Hall : Frances E.  
 Crook, BA *Bishop's*, MSc *Bryn Mawr.* Warden,  
 Laird Hall : Helen Neilson, MBE, BHS MSc.

**AFFILIATED THEOLOGICAL COLLEGES**

DIOCESAN COLLEGE OF MONTREAL, 3473 University St., Montreal, P.Q. (tel. : Victor 9-3004).  
 Principal—Rev. E. G. Jay, MA *Leeds*, PhD *Lond.*

UNITED THEOLOGICAL COLLEGE, 3508 University St., Montreal, P.Q. (tel. : Victor 9-2042).  
 Principal—G. Johnston, MA BD *Glas.*, PhD *Camb.*



The above two colls. train students for the ministry and grant certs. for ordination, but in 1948 they remitted their degree-granting powers to the univ., which now confers degrees in div. upon properly qualified students.

PRESBYTERIAN COLLEGE, 3485 McTavish St., Montreal, P.Q. (tel.: Victor 2-5754). Principal—Rev. R. Lennox, MA ThB DD. Awards own degrees.

## GENERAL INFORMATION

The Hon. James McGill, a leading merchant and prominent citizen of Montreal, who died in 1813 bequeathed 46 acres of land and £10,000 to the already existing 'Royal Institution for the Advancement of Learning' to found a univ. or coll. As a result, in 1821 a royal charter was granted and in 1829 teaching began in the Univ. of McGill College in the facs. of med. and arts. The charter was amended in 1852. In 1899 the Royal Victoria Coll., a gift of Baron Strathcona, was opened to provide separate teaching and residential facilities for women students. In 1907 Macdonald Coll., named after Sir Wm. Macdonald whose gift it was, was establd. as a residential coll. for agric., household sci., and sch. for teachers. Since then the univ. has grown vigorously, dividing itself into further facs., and many new bldgs. have been erected, especially since 1945, the latest addition being the McConnell engin. bldg. opened in 1959.

The univ. is undenominational and has for many yrs. been co-educational in all its facs. and most of its schs.

CONSTITUTION. McGill Univ. is a corporation created by a royal charter granted by the Crown of the United Kingdom, general supervisory power being retained by the Crown and exercised through the governor-general as 'visitor'. The governors of the univ. constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the province of Quebec, pt. of the official organization of the province, but completely self-governing. In them is vested the management of finances, appt. of profs. and other important duties; 3 of the governors are elected by the members of grads. soc. and other appts. are made by nomination of remaining members with the approval of the visitor. The pres. of the bd. of governors is, *ex officio*, chancellor of the univ. The principal is the academic hd. and chief admin. officer. He is appointed by the bd. of governors (of which body he is a member). He also holds the office of vice-chancellor of the univ. Senate consists of the chancellor, principal, deans of facs., warden of Royal Victoria Coll., dir. of inst. of educn., dir. of univ. extension and 4 group chairmen of fac. of arts & sci., all *ex officio*; 5 governors elected by the bd.; and 8 profs. elected by the various facs. The principal is chairman of senate, which is the highest academic authority of the univ. and has control over admission, courses of study, discipline and degrees. The carrying out of the regns. of senate along with primary responsibility for the conduct of the educnl. work of the univ. is entrusted to the several facs. and schs.

INCOME (1958-59). Total income, \$11,445,555 (excl. ancillary enterprises). Student fees, 34.4 per cent.; gifts for operating purposes (other than res.), 5.6 per cent.; endowments, 16.3 per cent.; provincial grants, 12 per cent.; gifts, grants & endowments for res., 27.2 per cent. (incl. federal & provincial grants); other sources, 4.5 per cent.

LIBRARIES. General, 680,000 vols. (incl. Macdonald Agric. Coll. library); med., 79,260 vols. Sp. collections: Blackader libr. of archit., Blacker libr. of zool.; Lyman collection of entomol.; Osler libr. of the hist. of med. and sci. (12,440 vols.); Redpath pamphlet collection, and Wood libr. of ornithol.

LABORATORIES. Agric. res., anat., bacteriol., biochem., biophys., bot., chem., electronics, engin., genetics, geol., health and soc. med., med. res., neurol., pharmacol., phys., physiol., psychol. and psychiatric res., pulp and paper res., radiation (with cyclotron), zool. Morgan arboretum.

RESEARCH INSTITUTES. Arctic, biophys., indust. relns., internat. air law, Islamic studies, neurological, parasitol., pathological, personnel appraisal, psychiatry.

FARM. Livestock and grain, 876 acres.

MUSEUMS. Redpath (bot., geol., zool., entomol.), med. library, McCord (Canadiana).

HOSPITALS. Available for clinics, 3000 beds in affiliated hosps.: Royal Victoria H., Montreal Gen. H., Montreal Children's H., Alexandra H. for Infectious Dis., Verdun Protestant H., Royal Edward Laurentian H., Royal Victoria Montreal Maternity H.

FACULTIES AND DEANS, *see* p. 191.

SCHOOLS AND DIRECTORS. *Archit.*—J. Bland; *comm.*—D. E. Armstrong; *household sci.*—Helen Neilson; *library sci.*—Miss Vernon Ross; *nursing*—Miss Rae Chittick; *physiotherapy*—G. H. Fisk; *soc. work*—J. J. O. Moore; *inst. of educn.* (incl. the former sch. of phys. educn.)—D. C. Munroe.

ADMISSION. *See* Appendix II.

FIRST DEGREES. 4 yrs.—MusB, BA gen., BA hon., BCom, BSc gen., BSc hon., BSc(Agr), BSc(HEC), BEd; 3 yrs.—BN (nursing); 5 yrs.—BEng (chem., civil, electr., engin. phys., mech., metall., mining), BSc(P&OT) (phys. & occupnl. therapy), BSc(Nursing); 6 yrs.—BArch, BDS.

Hons. BA may be taken in classics, Engl., French, geog., German, Greek, hist., Latin,

maths., philos., psychol., sociol.; in certain combinations of these subsj.; or in anthropol. & sociol., econ. & pol. sci., maths. & phys. Hons. BSc may be taken in bacteriol. & immunol., biochem., bot., chem., genetics, geog., geol. scis., geol. & phys. (geophys.), maths., mathis. & phys., phys. & physiol., physiol., psychol., zool.; there is also a general hons. degree in biol. scis.

**HIGHER DEGREES.** BLS (library sci.)—1 yr. postgrad.; BD—3 yrs. postgrad.; MD CM—4 yrs. postgrad.; BCI—4 yrs. after BA; MSW—2 yrs. postgrad.; MA, MCom, MCL, MSc, MEng, LLM, MArch, MSc(Appl), STM (theol.)—1 yr.'s resident grad. study, thesis and exam.; MLS—at least 1 yr. after BLS; PhD—3 yrs.' grad. study.

MA may be taken in classics, compar. religion, econ. & pol. sci., educn., Engl. lang. & lit., French lang. & lit., geog., German, hist., Islamic studies, maths., philos., phys., psychol., sociol. & anthropol. MSc may be taken in agric. bacteriol., agric. chem., agron., anat., bacteriol. & immunol., biochem., bot., chem., electr. communications, entomol., exper. med., exper. surg., genetics, geog., geol. scis., hortie., investigative med., maths., metall., meteorol., neurol. & neurosurg., nutrition, parasitol., pathol., pharmacol., phys., physiol., plant pathol., poultry husbandry, psychiatry, psychol., zool.\*

PhD may be taken in electr. engin. and in subsj. marked with \* above.

**HONORARY DEGREES.** DCL, DSc, DLitt, LL.D.

The univ. does not award **EXTERNAL DEGREES.** Attendance at lectures at the univ. is indispensable for a degree or dipl., except in music.

**DIPLOMAS.** Grad. nurse's, 1 yr.; LMus, 3 yrs., phys. and occupl. therapy, 3 yrs. Postgrad. —DTM, 1 yr., and teacher's (awarded by province of Quebec), 1 yr. Phys. educn., 2 yrs. Postgrad. dipls. are also awarded in the fac. of med. in the following clin. specialties: anaesthesia, dermatol. and syphilol., internal med., neurol. & neurosurg., obstet. & gynaeol., ophthalmol., otolaryngol., paediatrics, psychiatry, radiol., surg. and urol. These courses are open to approved med. grads. and cover from 3 to 5 yrs. of study.

**Diploma course in agriculture.** The dipl. course in the fac. of agric. consists of 2 sessions of 5 mos. each (Nov. to March inclusive). Closely connected with this course is the 'Old Country boy' project, under which boys from the British Isles are encouraged to take up the dipl. course at Macdonald Coll. so as to fit them for the work of farming, and every effort is made to give them both the theoretical and the practical educn. that is needed.

**SUMMER SCHOOLS.** French and geog. (6 wks.); Engl. lang. (1 month), for students whose native tongue is not Engl.

**FELS.** Yearly tuition: arts, \$425; sci., \$475; engin., \$525; archit., \$525; med., \$600; dent., \$500; law (1st 3 yrs.) \$425, (4th yr.) \$350; div.,

\$400; music, \$400 to \$550; library sci., \$425; comm., \$425; soc. work, \$425; nursing (degree & dipl. courses), \$400; phys. and occupl. therapy, \$400; grad. studies, \$425; agric. (degree course), \$275; household sci., \$275; educn. (1st 2 yrs.) \$225, (last 2 yrs.) \$425.

**FELLOWSHIPS, SCHOLARSHIPS AND BURSARIES.** There are a number of scholps. and bursaries tenable in the undergrad. facs. and a number of fellowships and assistantships in the grad. fac. There are also loan funds available to students in upper yrs. Details of all these are given in the scholps. announcement which the registrar's office will be glad to send to enquirers.

**STUDENT RESIDENCES.** I. In Montreal. Women: Royal Vic. Coll., 555 Sherbrooke St. West, Montreal, P.Q. (tel.: Vi 4-6311) (301 students)—warden: Dr. Muriel V. Roscoe, \$730-\$800 p.a.; McLennan Hall, 3480 Ontario Ave., Montreal, P.Q. (tel.: Vi 2-0044) (28 students)—warden: Dr. Muriel V. Roscoe, \$415-\$440 p.a. Men: Douglas Hall, 3851 University St., Montreal, P.Q. (tel.: Vi 4-6311) (147 students)—warden: Dr. W. Stanford Reid, \$685-\$750 p.a., depending on course; Wilson Hall (71 students), \$620-\$650 p.a., depending on course. II. In Ste. Anne de Bellevue, Macdonald Coll., almost completely residential, with special quarters for married students.

**STUDENT HEALTH.** An annual med. exam. is required of every student. The univ. provides regular consulting service for all students and full med. and nursing services for men and women in residences. It also makes some contribution towards necessary hosp. expenses.

**ATHLETICS.** Opportunities are provided for taking part in the following sports. *For men:* Canadian football and English rugby football, association football, hockey, basket-ball, track, swimming, gymnastics, boxing, wrestling, fencing, skiing, tennis, badminton, squash, racquets. *For women:* gymnastics, dancing, badminton, swimming, volley-ball, basket-ball, tennis, archery, golf, skiing, skating.

**MILITARY TRAINING.** Univ. contingents prepare students for commissions in Canadian army (reserve), Canadian navy (reserve) and Canadian air force (reserve).

**EXTENSION WORK.** Extension courses in approx. 75 subjects are given in the afternoon and evgs. for residents of Montreal and vicinity. Some prepare students for special exams., such as are required by the various accountancy assocns. (leading to dipls. of CA, CPA, etc.), and the inter. and final exams. of the Chartered Inst. of Secretaries: a few may be counted for the degree of MEng. Rural extension work is carried on through Macdonald Coll.

**GRADUATES' SOCIETY,** 3618 University St., Montreal.

**REPRESENTATIVE IN GREAT BRITAIN.** H. E. C. Rubie, BSc Oxon., c/o Canadian British Educa-

tion Committee, 62 Trafalgar Square, London, W.C.2, England (tel. : Whitehall 5100).

**PUBLICATIONS.** (Free): *Calendar* (Oct.); *General Announcement* (for intending students) (May); *Faculty and School Announcements* (May to Aug.); *Directory of Staff* (Feb.); *Annual Report* (Dec.); *McGill News*, quarterly, by graduates' soc.; *McGill Daily*, by students. *McGill and its Story, 1827-1927*, by Cyrus Mac-

millan (London, John Lane; Toronto, Oxford Univ. Press, \$3); *A Historical Sketch of the Medical Faculty and of the Origin of McGill Univ.*, by Dr. Maude Abbott, reprinted from Montreal Medical Journal, 1902; *Oldest McGill*, by E. A. Collard (Macmillan, 1946, \$2); *McGill Univ. at War, 1914-18, 1939-45*, by R. C. Featherstonhaugh (McGill Univ., 1947, \$3); *McGill: The Story of a University*, ed. by Assoc. Prof. H. MacLennan (Allen & Unwin, 1960).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Anon. donation for endowment of Macdonald chairs, \$287,000, and to endowment fund of Macdonald Coll., \$1,985,000; estate Rupert G. Bruce, \$90,000 for Montreal Neurol. Inst.; estate Sir Vincent Meredith, \$100,000 for advancement of agric. econ.; T. H. P. & H. de M. Molson, \$150,000 for male students' residence; estate Percy R. Walters, \$981,200 for Montreal Neurol. Inst.; J. W. McConnell, \$2,000,000 for engin. bldg.; anon. donor, \$324,000 for bldgs. & equipment at Macdonald Coll.; anon. donor, \$65,000 for Royal Victoria Coll. swimming pool.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* McConnell engin. bldg.; swimming pool at Royal Victoria Coll.; Laird Hall, women's residence at Macdonald Coll.

**RETIREMENTS.** Prof. W. A. Maw (poultry); Alice Stickwood (household sci.); Prof. E. A. Lods (agron.); Prof. L. C. Raymond (agron.); Prof. E. Pepin (inst. air law); Prof. C. D. Kelly (bacteriol.).

**RESIGNATIONS.** Prof. G. B. Caird (div.), to Mansfield Coll., Oxford; M. A. Ali (zool.); Prof. M. C. Kemp (econ.); Prof. W. R. Kennedy (med.); Prof. R. V. Ward (med.); Prof. W. F. Summers (geog.); A. J. Hartley (Engl.), further study at London; Prof. J. E. L. Peck (maths.); Prof. Z. A. Melzak (maths.); Prof. H. Garcia-Arocha (physiol.); K. J. Charles (econ. & pol. sci.), apptd. asst. prof., Manit.; Prof. D. W. Cole (Engl.); Prof. J. G. Castel (law), to Osgoode Hall, Toronto; Prof. G. I. Paul (genetics), to Manit.; Prof. R. C. Pratt (econ. & pol. sci.), to Tor.

**DEATHS.** Dr. W. V. Cone (prof. of neurosurg.); M. L. Donigan (assoc. prof. of dent.); W. W. Francis (Osler librarian); J. S. Godard (assoc. prof. of mining engin.); W. Kozakiewicz (assoc. prof. of maths.); A. Ross (asst. prof. of surg., retired); F. A. H. Wilkinson (asst. prof. of anaesthesia, retired).

**HONORARY DEGREES.** *LLD*--D. S. Penton, headmaster, Lower Canada Coll.; D. M. Johnson, Canadian ambassador in Russia; J. J. Ower, former dean, fac. of med., Alta. *DLitt*--D. G. Creighton, chairman, dept. of hist., Tor.; Adlai E. Stevenson, American jurist & political leader.

*DSc*--R. A. C. Henry, McG. grad. & engineer; A. de F. Pickett, McG. grad. & agriculturalist; J. Chorobski, prof. of neurosurg., Warsaw; Dorothy S. Russell, dir., Barnhard Baron inst. of pathol.; C. W. Wardlaw, prof. of bot., Manc.; P. Maheshwari, dept. of bot., Delhi; W. H. Weston, prof. of cryptogamic bot., Harv.; F. W. Went, prof. of bot., Missouri Bot. Gdns.; Irene Manton, prof. of bot., Leeds.

### Statistics

STUDENT NUMBERS, 1959-60

	Full-Time	Partial	Extension & Summer
Men	5162	241	5536
Women	2204	379	3020
Total	7366	620	8556

Distribution by Faculties, etc. *Agric.*, 282; *arts & sci.*, 2637; *dent.*, 145; *div.*, 31; *engin.*, 1434; *grad. studies*, 907; *home econ.*, 105; *law*, 236; *library sch.*, 35; *med.*, 416; *music*, 22; *nursing*, 121; *phys. & occupnl. therapy*, 118; *soc. work*, 91; *teaching*, 640; *other courses*, 146. Total: 7366.

Included in the figures above are:—

Postgraduate students, 907.

New admissions, 1638.

Students from other countries, 1144. (Countries from which largest numbers came: U.S.A., 403; W. Indies Fed., 186; U.K., 126; Hong Kong, 133).

**DEGREES AWARDED (1958-59).** BSc(P&OT), 9; BEd, 7; BLS, 22; BSc(HEc), 26; BSc(Agr), 44; BSc(PEd), 5; BCom, 74; BArch, 30; BSc, 172; BN, 25; BMus, 3; BEng, 243 (chem., 31; civ., 63; electr., 70; engin. phys., 10; mech., 58; metall., 6; mining, 5); BD, 9; BA, 204; BCI, 63; DDS, 39; MD CM, 98; MLS, 1; MSc, 55; MSc(Appl), 11; MArch, 3; MEng, 11; MSW, 26; MA, 33; MCI, 1; LL.M., 4; PhD, 80.

**DIPLOMAS AWARDED (1958-59).** Management & bus. admin., 26; electr. communications, 2; grad. nurses, 49; LMus, 5; grad. dipl. in med., 25; P&OT, 52. *Macdonald Coll. dipls.*: agric., 7; handicrafts, 11.

# McMASTER UNIVERSITY§

Founded 1887

Postal Address : Hamilton, Ontario, Canada

Cables and Telegrams : McMaster University, Hamilton

Telephone : Ja. 9-7101

CHANCELLOR—C. P. FELL, Hon. LLD

PRESIDENT AND VICE-CHANCELLOR ; PRINCIPAL, UNIVERSITY COLLEGE—G. P. GILMOUR, MA *Yale*, Hon. DD *Vic.Tor. & St.And.*, Hon. DCL *Acad.*, Hon. LLD *Qu.*, *Laval & McG.*, BA BD Hon. DLitt, FRSCan

VICE-PRESIDENT ; AND PRINCIPAL, HAMILTON COLLEGE—H. G. THODE, MBE, MSc Hon. LLD *Sask.*, PhD *Chic.*, Hon. DSc *Tor. & Br.Col.*, FRS, FRSCan, FCIC

DEANS—ARTS AND SCIENCE—Professor H. S. ARMSTRONG, MA *Tor.*, PhD *Chic.*, FRSCan ; ENGINEERING—Professor J. W. HODGINS, BSc PhD *Tor.*, FCIC ; GRADUATE STUDIES—Professor A. N. BOURNS, BSc *Acad.*, PhD *McG.*, FCIC ; THEOLOGY—Rev. N. H. PARKER, BS *Mississippi*, ThD *S.BaptistTheol.Sem.*, Hon. DD *Acad.*

DIRECTOR OF EXTENSION AND SUMMER SESSION—W. J. MCCALLION, MA

REGISTRAR—C. W. H. LINTON, BA

BURSAR AND SECRETARY TO THE BOARD OF GOVERNORS—W. N. PATERSON, BA

LIBRARIAN—MARGET H. C. MEIKLEHAM, MALS *Mich.*, BA

## TEACHING STAFF

[\* also member of Fac. of Grad. Studies ; † =Part-Time]

**Anthropology**, see Geog.

### Biology

Kleerekoper, H., MA PhD *Mich.*,  
DSc *Paris* (Zool.) Prof.  
\*Radforth, N. W., MA *Tor.*, PhD *Glas.*,  
FRSCan (Bot.) Prof., Chairman of Dept.  
\*Miller, J. J., BA PhD *Tor.* (Bot.) Prof.  
Nace, P. F., MA *Col.*, PhD *N.Y.* (Zool.) Prof.  
MacClement, W. D., CD, BA *Qu.*,  
PhD *Camb.* (Bot.) Assoc. Prof.  
\*Davies, D. M., BA PhD *Tor.*  
(Zool.) Assoc. Prof.  
Laking, L., BSA *Tor.* (Bot.) Sp. Lectr.  
† Postdoctorate Fellow

### Chemistry

\*Thode, H. G., MBE, MSc Hon. LLD *Sask.*,  
PhD *Chic.*, Hon. DSc *Tor. & Br.Col.*,  
FRS, FRSCan, FCIC  
Vice-President, Principal of Hamilton  
College, Dir. of Res., Prof.  
\*Graham, R. P., MA *Qu.*, AM PhD *Col.*,  
FCIC Prof.  
\*Bourns, A. N., BSc *Acad.*, PhD *McG.*,  
FCIC Prof.  
\*Tomlinson, R. H., BSc *Bishop's*, PhD *McG.*  
Prof.  
\*MacLean, D. B., BSc *Acad.*, PhD *McG.*  
Prof., Chairman of Dept.

\*Gillespie, R. J., PhD DSc *Lond.* Prof.  
Spenser, I. D., BSc *Birm.*, PhD *Lond.*,  
FRIC, FCIC Assoc. Prof.  
King, G. W., BSc PhD *Lond.* Assoc. Prof.  
Calvo, C., BS PhD *Rutgers* Sessl. Asst. Prof.  
Warkentin, J., MSc *Manit.*, PhD *Iowa*  
Sessl. Asst. Prof.  
6 Postdoctorate Fellows

### Classics

\*Shepherd, D. M., MA *Qu.*, PhD *Chic.*  
Assoc. Prof., Hd. of Dept.  
McKay, A. G., BA *Tor.*, MA *Yale*, AM  
PhD *Prin.* Assoc. Prof.  
White, R. E., AB *Tufts*, PhD *N.Carolina*  
Sessl. Lectr.

### English

Haddow, G. C., MA *Oxon. & Tor.* Prof.  
\*Wiles, R. M., BA *Dal.*, MA PhD *Harv.*  
Prof., Hd. of Dept.  
Murphy, Mrs. Dorothy S., MBE,  
MA *Oxon. & Tor.* Assoc. Prof.  
\*Jackson, B. A. W., DPhil *Oxon.*, BA  
Assoc. Prof.  
Martin, E. Mary F., BA *Alta.*, MA *Lond.*  
Asst. Prof.  
Shrive, F. N., CD, MA *Tor.*, BA Asst. Prof.  
Lee, A. A., MA BD *Tor.* Sessl. Asst. Prof.  
Vichert, G. S., MA *Tor.*, BA Sessl. Lectr.

§ Member of the Association of Universities of the British Commonwealth

**Fine Arts**

Wallace, G. B., IIDipEd MA *Dub.* Asst. Prof.

**French**, see Romance Langs.

**Geography and Anthropology**

\*Reeds, L. G., MA PhD *Tor.*  
Assoc. Prof., Chairman of Dept.

\*Wood, H. A., PhD *Tor.*, MA Assoc. Prof.  
Gentilcore, R. L., BA *Tor.*, PhD *Maryland*

Asst. Prof.  
Ford, D. C., BA *Oxon.* Sessl. Lectr.

**Geology**

\*Armstrong, H. S., MA *Tor.*, PhD *Chic.*,  
FRSCan Prof.

Shaw, D. M., MA *Camb.*, PhD *Chic.*,  
FGS Prof.

\*Middleton, G. V., DIC, ARCS, BSc  
PhD *Lond.* Assoc. Prof., Chairman of Dept.

\*Burley, B. J., BSc *Lond.*, MSc *Br.Col.*,  
PhD *McG.* Asst. Prof.

Jones, R. E., MA *Qu.*, PhD *Tor.* Asst. Prof.  
Westermann, G. E. G., BSc *T.H.Braunschweig*,

DiplGeol DSc *Tubingen* Asst. Prof.  
Irvine, T. N., MSc *Manit.*, PhD *Cal.Tech.*

Asst. Prof.

**German**

Martin, A. P., AB *Brown*, MA PhD *Wis.* Prof.

\*Denner, K., MA *Kentucky*, PhD *Johns H.*  
Assoc. Prof., Chairman of Dept.

Lawson, J. B., BA *N.Y.StateTeachers*,  
MA *Johns H.* Lectr.

Stewart, D. D., MA *Tor.* Lectr.  
Messner, J., Dipl Dolmetscher *Innsbruck*

†Sessl. Lectr.

Van Dusen, R. L., BA *Harv.*, MA *Texas*  
Sessl. Lectr.

**History**

\*Salmon, E. T., BA *Syd.*, MA PhD *Camb.*,  
FRSCan, FRHistS

Messeccar Prof., Hd. of Dept.  
McCreedy, H. W., MA *Tor.*, PhD *Harv.* Prof.

\*French, G. S., MA PhD *Tor.* Assoc. Prof.

\*Kilbourn, W. M., BA *Tor.*, MA *Oxon.*,  
AM PhD *Harv.* Assoc. Prof.

Johnston, C. M., MA PhD *Penn.*, BA Asst. Prof.  
Trueman, J. H., MA *Tor.*, PhD *Corn.* Asst. Prof.

**Mathematics**

Bankier, J. D., MA *Qu.*, PhD *Rice* Prof.

\*Sumner, D. B., MA DPhil *Rand*,  
MSc *Camb.* Prof.

Banaschewski, B., DrRerNat DiplMath  
*Hamburg* Prof.

Britton, F. R., BSc *Wales*, PhD *Tor.*,  
MA Assoc. Prof.

Lane, N. D., BA *Qu.*, MA PhD *Tor.*  
Assoc. Prof., Chairman of Dept.

McCallion, W. J., MA Assoc. Prof.  
Sabadussi, G., PhD *Vienna* Sessl. Assoc. Prof.

Kenworthy, D. J., BA *Oxon.* Sessl. Asst. Prof.

**Metallurgy**

\*Petch, H. E., PhD *Br.Col.*, MSc  
Prof., Chairman of Dept.

Kirkaldy, J. S., MSc *Br.Col.*, PhD *McG.*  
Assoc. Prof.

Sibakin, J. G., CandTechSci *Dneprop.*  
†Sp. Lectr.

Lavigne, M. J., BA BScApp DSc *Laval*  
Sp. Lectr.

2 Postdoctorate Fellows

**Music**

Thorolfson, F., ATCM *Tor.*, MusM *Chic.*  
*Mus.Coll.* Asst. Prof., Dir.

**Nuclear Medicine**

Jaimet, C. H., MD *Tor.*, FRCPCan,  
FACP †Prof.

**Nursing Education**

Reid, Alma E., BA *Tor.* Assoc. Prof., Dir.  
Alderson, Henrietta J., MSc *Col.* Asst. Prof.

Greenaway, Florence I., BN *McG.*,  
MS *Wayne* Asst. Prof.

Ward, Hazel A., BSc MA *Col.* Sessl. Lectr.  
Watanabe, May A., BScN Lectr.

Sibakin, Mrs. Kira, BSc *Dneprop.*, MSc  
†Sp. Lectr.

**Philosophy**

\*Dulmage, H. A., PhD *Chic.*, BA BD  
Assoc. Prof., Chairman of Dept.

Noxon, J. H., MA *Qu.*, PhD *Edin.* Asst. Prof.  
Mayer, J. R. A., MA *Roch.*, BA Sessl. Lectr.

Thomas, J. E., MA *Duke*, BA BD Sessl. Lectr.

**Physical Education**

Wynne, I., MS(Ed) *Syr.*, BA Prof., Hd. of Dept.  
Prince, L. A. Asst. Pro

Smith, A. J., BSA *Tor.* Asst. Prof.  
Huycke, W. D., BPIIE *Tor.* Asst. Prof.

O'Reilly, Mrs. Evelyn S., BSc(PhysEd)  
*McG.* Lectr.

Hopmans, C. C., MD *Tor.*, FRCSCan  
Sp. Lectr.

**Physics**

\*McLay, A. B., CD, MA PhD *Tor.*, BA,  
FRSCan Prof.

\*Duckworth, H. E., BA BSc *Manit.*,  
PhD *Chic.*, FRSCan

Prof., Chairman of Dept.  
John's, M. W., PhD *Tor.*, MA, FRSCan Prof.

\*Preston, M. A., MA *Tor.*, PhD *Birm.* Prof.  
\*Summers-Gill, R. G., MA *Sask.*, PhD *Calif.*

Asst. Prof.  
Kennett, T. J., MSc PhD Asst. Prof.

Mate, C. F., BA DPhil *Oxon.* Asst. Prof.  
McMullen, C. C., BSc PhD Asst. Prof.

Vosko, S. H., BEng(Phys) MSc *Carregie*  
*Tech.* Sessl. Asst. Prof.

3 Postdoctorate Fellows

**Political Economy**

Graham, J. E. L., MA BLitt *Oxon.*, BA *Tor.*  
Prof., Hd. of Dept.

Mk Ivor, R. C., BA *W.Ont.*, MA PhD *Chic.* Prof.  
 Potter, C. C., BSc(Com) *SirG.Wms.*,  
 MCom PhD *McG.* Assoc. Prof.  
 \*Thompson, R. W., BA *Tor.*, MA *Qu.*  
 Asst. Prof.  
 Hunter, W. D. G., BA *Oxon.*, MA *Edin.*  
 Asst. Prof.  
 \*Novak, D., BA *Tor.* Asst. Prof.  
 Kersell, J. E., MA *Qu.*, PhD *Lond.* Asst. Prof.  
 Soule, H., BA †Sp. Lectr.  
 Dixon, H. C., BCom *Tor.*, FCA †Sp. Lectr.

### Psychology

\*Newbigging, P. I., BA *Sask.*, MA *Tor.*,  
 PhD *Lond.* Assoc. Prof., Chairman of Dept.  
 Kanun, L. J., AB MA PhD *Harv.* Assoc. Prof.  
 \*Black, A. H., BA *Tor.*, AM PhD *Harv.*  
 Asst. Prof.  
 Carment, D. W., BA *Sask.*, MA PhD *Tor.*  
 Asst. Prof.  
 Heton, B. R. W., MA PhD *McG.*  
 Sessl. Assoc. Prof.  
 Penney, R. K., BSc MA *Wayne*,  
 PhD *Iowa* Sessl. Lectr.  
 Coons, W. H., BA *Alta.*, MA PhD *Tor.*  
 †Sp. Lectr.

### Religion

Clifford, P. R., MA *Oxon.*  
 Asst. Prof., Chairman of Dept.  
 3 Instrs.†

### Romance Languages

Patrick, A. W., MA *Manit.*, DU*Paris*  
 Prof., Assoc. Dean, Fac. of Arts & Sci.,  
 Hd. of Dept.  
 Freeman, H. A., BA *Sask.*, MA *Tor.*  
 (French) Prof.  
 \*Stock, Marie, BA *Qu.*, MA *McG.*  
 (French) Assoc. Prof.  
 Hampel, L. E., MA *Tor.* (Spanish) Asst. Prof.  
 Gruluths, D. A., MA *Br.Col.*, DU*Paris*  
 (French) Asst. Prof.  
 Peterson, H., MA *Tor.* (Spanish) Lectr.  
 Fuster, R., Licenciada *Madrid*  
 (Spanish) Sessl. Lectr.  
 Laurion, G., LèsL *Montr.*, Dipd'ÉtSup *Paris*  
 (French) Sessl. Lectr.  
 Otto, G. S., MA *Qu.* †Sp. Lectr.

### Russian

Shein, L. J., BA *Dubuque*, MA PhD *Tor.*  
 Asst. Prof.  
 Bartniak, M., MA *Tor.* Sessl. Lectr.

### Sociology

Jones, F. E., MA *McG.*, PhD *Harv.*  
 Assoc. Prof., Chairman of Dept.  
 Vallee, F. G., BA *McG.*, PhD *Lond.*,  
 FRAI Assoc. Prof.  
 Pinco, P. C., BA *Br.Col.*, MA *McG.*,  
 PhD *Chic.* Lectr.

Zoology, see Biol.

## ENGINEERING

\*Hodgins, J. W., BASc PhD *Tor.*, FCIC  
 (Chem. E.) Prof., Chairman of Dept.  
 Gladwin, A. S., DSc *Glas.*, PhD *Lond.*  
 (Electr. E.) Prof., Chairman of Dept.  
 Huber, D. G., MASc *Tor.*, PhD *Iowa*  
 (Mech. E.) Prof., Chairman of Dept.  
 \*Petch, H. E., PhD *Br.Col.*, MSc  
 (Metall. E.) Prof., Chairman of Dept.  
 Kirkaldy, J. S., MASc *Br.Col.*, PhD *McG.*  
 (Metall. E.) Assoc. Prof.  
 Oravas, G., MSCivEng MScEngMech  
 PhD *Mich.*  
 (Civil E.) Assoc. Prof., Chairman of  
 Dept.  
 Wade, J. H. T., MASc PhD *Tor.*  
 (Mech. E.) Assoc. Prof.  
 Newcombe, W. R., BSc *Mt.All.*,  
 ME N.S.T.C. (Mech. E.) Asst. Prof.  
 Crowe, C. M., BEng *McG.*, PhD *Camb.*  
 (Chem. E.) Asst. Prof.  
 \*Hoffman, T. W., MSc *Qu.*, PhD *McG.*  
 (Chem. E.) Asst. Prof.  
 Siddall, J. N., BSc *Sask.*, SM *M.I.T.*  
 (Mech. E.) Asst. Prof.  
 Smeltzer, W. W., BSc *Qu.*, PhD *Tor.*  
 (Metall. E.) Asst. Prof.  
 Wilson, N. E., MA MAI *Dub.*, SM *Harv.*  
 (Civil E.) Asst. Prof.  
 Uhlig, C. A. E., DiplElEng DrScTech  
 E.T.H. *Zurich* (Electr. E.) Sessl. Assoc. Prof.  
 Keech, G. I., MSc PhD  
 (Mech. E.) Sessl. Asst. Prof. of Nuclear  
 Engin.  
 Robinson, H., BSc PhD *Durh.*  
 (Civil E.) Sessl. Asst. Prof.  
 Hoolboom, G. J., MA *T.H.Delft*  
 (Electr. E.) Sessl. Asst. Prof.  
 Tory, E. M., BSc *Alta.*  
 (Chem. E.) Sessl. Asst. Prof.  
 Lavigne, M. J., BA BScApp DSc *Laval*  
 (Metall. E.) †Sp. Lectr.  
 Moes, G., BEng *Liv.* (Electr. E.) †Sp. Lectr.  
 Sibakin, J. G., CandTechSci *Dneprop.*  
 (Metall. E.) †Sp. Lectr.

## GRADUATE STUDIES

For members of Fac., see those marked \* under  
 separate subjects, above.

## THEOLOGY

### Church History

Albaugh, G. P., AB *Ohio State*, BD *Colgate-*  
*Roch.* Assoc. Prof.

### Hebrew and Old Testament Interpretation

\*Parker, N. H., BS *Mississippi*, ThD *S.Baptist*  
*Theol.Sem.*, Hon. DD *Acad.* Prof.

### Leadership Training

Tupper, Lois A., BA BED *Sask.*, MA *Col.*  
 (Religious Educn.) Asst. Prof., Dir. of  
 Sch.

Bates, Mrs. Marion, Hon. DCL *Acad.*, BA  
(Practical Nursing) Sp. Lectr., Dean of  
Women

#### Missions and Religious Education

Kitchen, L. C., PhD *Hartford Sem.*, MA  
Assoc. Prof., Dir. of Field Work for Div.  
Students

#### New Testament Interpretation

Lang, H. W., STM *U.T.S.(N.Y.)*, MA BD Prof.

#### Theology

Aldwinckle, R. F., BA *Lond.*, MA *Oxon.*,  
DTh *Stras.* Prof.  
Harrop, G. G., PhD *Chic.*, BA BD  
(Bibl. Studies) Asst. Prof.

### ADMINISTRATIVE AND OTHER STAFF

Business Administrator & Asst. Dir. of Res. :  
D. M. Hedden, BSc. Dir. of Student Personnel  
Services : J. E. Andoff, BA. Dean of Women :  
Mrs. Marion Bates, Hon. DCL *Acad.*, BA. Dean  
of Men : P. R. Clifford, MA *Oxon.* Dir. of  
Nursing Educn. : Alma E. Reid, BA *Tor.* Dir.  
of Women's Leadership Trg. Sch. : Lois A.  
Tupper, BA BEd *Sask.*, MA *Col.* Asst. Lib-  
rarian : Dorothy Davidson, BLS *Tor.*, MA. Asst.  
Bursar : C. H. M. Vinnels. Accountant : E. C.  
Matthews. Supt. of Bldgs. & Grounds : E. T.  
Clarke. Dir. of Alumni Relations : D. W. Allaby,  
BA. Asst. Registrar : Mrs. Sheila Scott, BA  
*W.Ont.* Book Room Manager : Mrs. Suzanne

McDowell, BA. Asst. Dirs. of Extension : P. D.  
Smith, BA *Birm.* ; F. Vernon, BSA *MED Tor.*

Armed Forces Co-ordinator : Capt. E. A.  
Clinker, BA. University Naval Training Di-  
vision : C.O., . . . . . ; Staff Officer, Lt. J. C.  
Persson. Canadian Officers' Training Corps :  
O.C., Capt. J. E. Kersell ; University Support  
Officer (Army), Capt. E. A. Clinker, BA ; Ad-  
jutant, . . . . .

University Reserve Training Plan, R.C.A.F. :  
C.O., Sqn. Leader F. N. Shrive ; Trg. Officer,  
F/O B. E. Babiski ; Support Officer, F/L C. P.  
Mullin.

### AFFILIATED THEOLOGICAL COLLEGE

McMASTER DIVINITY COLLEGE (Baptist),  
McMaster Univ. (tel. : Ja. 9-7101). Principal—  
Rev. N. H. Parker, BS *Mississippi*, ThD  
*S.BaptistTheol.Sem.*, DD *Acad.* McMaster  
Divinity Coll. is the historical continuation of  
what was known for 70 yrs. as the fac. of theol. of  
McMaster Univ. or as the McMaster Univ. div.  
sch. An act to incorporate McMaster Divinity  
Coll. (1957) created a new corporation, as a  
separate foundation, with a bd. of trustees and a  
senate. The div. coll. operates in affiliation with  
the univ., and its grads. receive the BD degree  
from the univ. Its academic and honorary degrees  
are awarded by the univ., but it grants certs. and  
dipls. on its own authority. At present the staff  
of the div. coll. and the staff of the univ.'s fac. of  
theol. (see p. 209) are almost the same, and the  
principal of the div. coll. is also the dean of theol.  
The Women's Leadership Training Sch., spon-  
sored by the Baptist Women's Missionary Soc.  
of the Baptist Convention of Ontario and Quebec,

is affiliated with the div. coll. and is under the  
direction of Lois A. Tupper.

Teaching Staff of Divinity College [† Part-  
Time]. CHURCH HIST.—G. P. Albaugh, AB *Ohio  
State*, BD *Colgate-Roch.*, Assoc. Prof. HEBREW  
& O.T. INTERPRETATION—N. H. Parker, BS *Missis-  
sippi*, ThD *S.BaptistTheol.Sem.*, Hon. DD *Acad.*,  
Prof. LEADERSHIP TRG.—Lois A. Tupper, BA  
BEd *Sask.*, MA *Col.*, Asst. Prof., Dir. of Sch.,  
Muriel Israel, BA *Acad.*, MA *Col.*, Lectr.,  
Asst. Dir. of Sch. ; Mrs. Marion Bates, Hon.  
DCL *Acad.*, BA, †Sp. Lectr., Dean of Women.  
MISSIONS & RELIGIOUS EDUCN.—L. C. Kitchen,  
PhD *Hartford Sem.*, MA, Assoc. Prof., Dir. of  
Field Work for Div. Students. N.T. INTERPRETA-  
TION—H. W. Lang, STM *U.T.S.(N.Y.)*, MA  
BD, Prof. PRACTICAL THEOL.—I. C. Morgan,  
BA BD, Asst. Prof. SPEECH—A. R. Poynter, BA  
BD, †Sessl. Lectr. THEOL.—R. F. Aldwinckle,  
BA *Lond.*, MA *Oxon.*, DTh *Stras.*, Prof. ; G. G.  
Harrop, PhD *Chic.*, BA BD, Asst. Prof.

### GENERAL INFORMATION

McMaster Univ., named after senator William  
McMaster (1811-87), whose will provided its  
original endowment, operates under the terms of  
an act of incorporation granted by the legislative  
assembly of Ontario in 1887 and basically revised  
in 1957. The univ., which is now a non-  
denominational private foundation, was a de-  
nominational foundation from 1887 to 1957, its  
governors elected by the Baptist Convention of  
Ontario and Quebec. It was the outgrowth of

educnl. work begun in Canada Baptist Coll.,  
Montreal (1838), and contd. in Woodstock, On-  
tario (1857), and of the theol. work of Toronto  
Baptist Coll. (1881-87). Toronto Baptist Coll.  
and Woodstock Coll. formed the nucleus of the  
univ. in 1887. Until 1926, Woodstock Coll.  
was contd. as a preparatory sch. for boys, and  
from 1887 to 1954 a preparatory sch. for girls,  
Moulton Coll., was maintained in Toronto.

The univ. was transferred to Hamilton in 1930.

In 1948, it was reorganized into three colls.: the Divinity Sch., which was the fac. of theol., operating mainly on a postgrad. basis; University Coll. (the arts depts.); and Hamilton Coll. (the sci. depts.), the latter operating under its own bd. of governors as an affiliated coll. In 1957, the Baptist Convention withdrew from legal control of the univ., the univ. and Hamilton Coll. becoming one corporation. McMaster Divinity Coll. was at the same time incorporated as an affiliated theol. coll., under a bd. of trustees, univ. lands being assigned for its use.

**CONSTITUTION.** The univ. corporation consists of a bd. of governors of from 30 to 41 members, up to 28 being elected by the bd., 3 (the chancellor, pres. and vice-pres.) being *ex-officio* members, 3 elected by the trustees of McMaster Divinity Coll., 5 by the grads. and 2 by the teaching staff. Academic work is controlled by a senate, composed of reps. of the fac., governors and grads. The following are *ex-officio* members of the senate: pres. (chairman), vice-pres., dean of theol., dean of arts & sci., dean of grad. studies, dean of engin., assoc. dean of arts & sci., dir. of extension.

**INCOME** (1958-59). Total income, \$2,849,900 (endowment, \$107,400; govt. grants: provincial, \$650,000, federal, \$433,500, municipal, \$121,900, other, \$27,000; research funds, \$427,300; fees, \$67,200; sundries, \$68,000; ancillary enterprises, \$362,600).

**FACULTIES AND DEANS**, see p. 207.

**UNIVERSITY PRECINCT.** The univ. occupies about 73 acres in the west end of Hamilton, its lands being bordered by tracts of parkland forming part of the extensive acreage of the Royal Botanical Gardens.

**LIBRARY**, 118,212 vols. The Mills Memorial library is the gift of the Mills foundation of Montclair, New Jersey. Four floors provide for a capacity of over 120,000 vols., as well as reference reading room, bibliog. room, and fine arts collection of books, slides, prints, etc. Two collections: the music collection, establd. through the generosity of the Carnegie corporation, contains over 2300 recordings, and a small library of music scores and books on music and musicians; the Baptist historical collection of books, documents and association minutes, forms a valuable record of Canadian Baptist history, past and present. The library also maintains a coll. library in phys. sci. bldg.

**LABORATORIES.** Res. labs. maintained in most sci. & engin. depts., and are usually in academic bldgs. adjacent to undergrad. labs. Research greenhouse. Res. programmes are under way in all major fields of sci. **NUCLEAR REACTOR**, housed in its own bldg., operates at one megawatt and is of swimming pool type, using highly enriched <sup>235</sup>U as fuel. Associated with reactor is nuclear res. bldg. containing a hot lab. and several radio-isotope labs. as well as specially air-conditioned rooms for series of mass spectrometers.

Chairman of reactor operational control cttee.—D. M. Hedden, BSc. Reactor staff: W. H. Fleming, MSc PhD (supt.); K. Fritze, PhD (res. chemist); J. B. McDougall, BSc (supervisor); C. C. McMullen, MSc PhD (res. physicist); R. H. Tomlinson, BSc *Bishop's*, PhD *McG.* (health physicist); D. Whiteford (asst. health physicist).

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** 3 or 4 yrs.—BA ord.; 4 yrs.—BA hons., BSc hons., BCom hons., BEng, BScN; BA hons. may be taken in classics, econ., econ. & maths., econ. & pol., Engl. lang. & lit., Engl. & French, Engl. & German, Engl. & hist., Engl. & philos., French & fine arts, French & German, French & Spanish, geog., hist., hist. & econ., hist. & pol., Latin & Engl., Latin & French, Latin & Greek, philos., philos. & hist., psychol., psychol. & biol., sociol., sociol. & psychol. BSc hons. may be taken in appl. maths. & theoret. phys., biological chem., biol., biol. & chem., chem., geol., geol. & chem., maths., metall. sci., phys., phys. & chem. BEng may be taken in chem., civil, electr., mech., metall. engin. and in engin. phys. See also 'Dept. of Univ. Extension', *below*.

**HIGHER DEGREES.** MA, 1 yr. min. after BA (hons.), can be taken in classics, Engl., geog., German, hist., philos., pol. econ., psychol., romance langs.; MSc, 1 yr. min. after BSc (hons.), can be taken in biol., chem., geol., maths., metall., phys.; BD, 3-yr. course after BA; MBA, 1 or 2 curriculum yrs. depending on 1st degree, evg. courses only; BPE, 1 yr. min. after BA, BSc, BCom or BScN; MEng, 1 yr. min. after BEng in chem. engin., mech. engin., metall. engin. PhD, 3 yr. min. after BSc, can be taken in biol., chem., geochem., phys., maths., metall. or, after BA (hons.), in psychol. or, after BEng, in metall. engin.

**HONORARY DEGREES.** LL.D, DLitt, DSc, DD.

The univ. does not award EXTERNAL DEGREES.

**CERTIFICATES.** Div. sch., 3 yr. course (1 yr. arts and 2 yrs. theol.). Women's leadership trg. sch. in the div. sch., 2 yrs. selected arts and theol., preparatory to missionary and other religious work.

**MILITARY TRAINING.** The univ. naval trg. division offers a programme for training of potential officers in the R.C.N. and the R.C.N. (R.). The univ. contingent Canadian officers' training corps qualifies selected univ. undergrads. for a commission, on graduation, in the Canadian army. Membership in the univ. air squadron, primary reserve, is open to all students who have enrolled in the univ. reserve trg. plan or the regular officers trg. plan, R.C.A.F.

**STUDY LEAVE** for members of staff. No regular system, each applicn. being considered on its merits, having regard to deptl. needs. Leave with salary normally granted only if instr. has been awarded a fellowship or grant, and then every effort is made to accommodate him.



**FEES (annual).** Arts & sci., \$425 to \$440; engin., \$500; nursing, \$350; theol., \$87.50. These fees cover tuition, lab., registration, library, exams., athletics, med. services, student organizations and accident insurance.

**ACADEMIC YEAR.** From Sept. to May, 2 terms. About 30 wks., 12 1st term, 18 2nd.

**SUMMER SESSION.** 6-wk. session from about July 3 to Aug. 15.

No 'OPEN' AWARDS offered by univ. to students entering to read for a first degree.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.** C. I. L. fellowship in chem., \$2000 (\$1200 for academic yr. plus \$800 for 4 summer mos.) plus grant for equipment and supplies for res. leading to PhD in chem. Cominco fellowship, \$1000 plus grant for equipment and supplies for res. in some field of sci. preferably related to mining, metall. or chem. industry. Dow Chemical of Canada fellowship, \$2000 (\$1200 for academic yr. plus \$800 for 4 summer mos.) plus grant for res. expenditures for res. in chem. or chem. engin. Shell Oil fellowship, \$1800 (\$1200 for academic yr. plus \$600 for 4 summer mos.) for res. in chem., chem. engin., geol. or phys. 8 teaching fellowships in arts, \$1500 each. Grad. res. scholps. in sci., \$2000 to \$2800 per calendar yr.

**RESIDENCE.** For men: Edwards Hall (tels.: Centre House, Ja. 2-0884, North House, Ja. 2-0841, South House, Ja. 7-0671), has accomm. for about 100 students. For women: Wallingford Hall (tel.: Ja. 2-6819), West Wallingford (tel.: Ja. 7-5391), and Eleanor McKay House, Dundas (tel.: MA 7-7358), accomm. in all 135 students. Rates \$575 per session. A new residence to accomm. 220 men and one to accomm. 140 women will be completed in 1960-61.

**DEPARTMENT OF UNIVERSITY EXTENSION.** Offers courses for BA and BPE degrees, in evg. courses during winter session, at annual summer sch., and at special outside centres; the BA and BPE can be taken entirely by evg. courses. Acctg. courses leading to the designation Registered Industrial Accountant (of the Soc. of Indust. & Cost Accountants of Ont.), by evg. courses, at outside centres, and by correspondence; indust. management courses leading to the cert. in indust.

management (of the Canadian Indust. Management Assocn.), by evg. courses and at outside centres; a wide range of non-credit courses, cultural and industrial. The dept. provides a lecture service operated in the interests of groups desiring speakers from among the fac. The *Univ. Extension Calendar*, containing detailed information concerning both winter evg. classes and summer sch., is publ. annually in March.

**STUDENT PERSONNEL SERVICES** assist the student to solve his own educnl., vocational and personal problems, and to find part-time summer and full-time employment in accordance with his interests, needs and qualifs.

**GRADUATES ASSOCIATIONS.** The univ. has local alumni branches in various cities in Canada and U.S.A., run by volunteer officers who depend on the dir. of alumni activities at the univ. for guidance and programmes.

**UNIVERSITY STUDENT HEALTH SERVICE.** Each new student given complete physical exam. on entrance, warned of special precautions which should be taken to guard against sickness, and advised as to his ability to take part in athletics, etc. Throughout the session the univ. doctor holds daily office hours, when any students may consult him. Grad. nurses are on duty throughout the academic yr. The univ. maintains 2 infirmaries, 1 for men and 1 for women. Cases requiring hospitalization are cared for in the infirmaries up to 3 days free. After that, an infirmary charge is made. Certain participation in physical trg. required of 1st-yr. students.

**ATHLETICS.** Opportunities for rugby, soccer, tennis, rack, harrier, golf, basket-ball, swimming, skiing, hockey, badminton, fencing.

**PUBLICATIONS.** *President's Report*; *Report* of the bd. of trustees and the senate of the divinity coll. to the Baptist convention of Ontario and Quebec (publ. in the *Year Book* of the Baptist convention of Ontario and Quebec); *Calendar*; *Bulletins* of the dept. of univ. extension; *McMaster Alumni News*; *A Handbook and Directory* (Oct.). Undergrad.: *The Muse* (quarterly); *Silhouette* (weekly); *Marmor* (annually).

UNIVERSITY BOOKSTORE.

## THE YEAR 1959

**PRINCIPAL BENEFACCTIONS.** Total value of all benefactions received, \$3,608,233.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* physical plant offices; boiler plant; nuclear reactor; engin. bldg.; extension to phys. sci. bldg. *Approaching completion:* div. coll. bldg.; arts & admin. bldg.

**NEW DEPARTMENTS AND CHAIRS.** Dept. of religion in fac. of arts & sci.; office of dean of men; Steel Co. of Canada chair of metall.

**RETIREMENTS.** Dr. C. H. Stearn (classics), Dr. F. W. Waters (philos.).

**RESIGNATION.** Frances Riddell (nursing), on marriage.

**DEATHS.** R. Lloyd (order librarian); E. J. Bengough (hon. registrar); A. E. Johns (emer. prof. of maths.); R. H. Thompson (asst. prof. of geog.).

**HONORARY DEGREES.** LL.D.—Rt. Rev. W. E. Bagnall, bishop of Niagara; R. L. Jeffery, hd.,

dept. of maths., Qu. ; H. G. Hilton, chairman, Steel Co. of Canada ; F. A. Sherman, chairman of bd., Dominion Foundries & Steel. *DLitt*—W. R. Davies, editor, Peterborough Examiner. *DSc*—J. Convey, dir., mines branch, Dept. of Mines & Technical Surveys, Ottawa. *DD*—Rev. F. B. Willingham, American Baptist Foreign Missionary Soc. ; Rev. J. P. Pryse, Ohsweken Baptist Church.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	1101	721
Women . .	365	1450
Total	1466	2171

Distribution by Faculties. *Arts & sci.*, 1130 ; *engin.*, 139 ; *grad. studies*, 135 ; *div. coll.*, 62. Total : 1466.

*Included in the figures above are :—*

Postgraduate students, 135.

New admissions, 503.

Students from other countries, 49. (Countries from which largest numbers came : W. Indies Fed., 12 ; U.K., 10 ; India, 7).

DEGREES AWARDED (1958-59). PhD, 8 ; MA, 3 ; MSc, 9 ; BA (hons.), 30 ; BA, 213 ; BSc, 29 ; BEdN, 3 ; BScN, 10 ; BPE, 14 ; BCom, 4.

DIPLOMA AWARDED (1958-59). Div., 1.

CERTIFICATES AWARDED (1958-59). Theol., 3 ; women's leadership trg. sch., 4.

# UNIVERSITY OF MANITOBA\*

Founded 1877

Postal Address : Winnipeg, Manitoba, Canada

Cables and Telegrams : University of Manitoba, Canada

Telephone : Grover 4-9110

CHAIRMAN OF THE BOARD OF GOVERNORS—A. R. TUCKER, BCom

CHANCELLOR—HON. MR. JUSTICE S. FREEDMAN, BA LL.D.

VICE-CHANCELLOR AND PRESIDENT H. H. SAUNDERSON, BA MSc PhD LL.D, FCIC

REGISTRAR—D. CHEVRIER, BA

ASSISTANT REGISTRAR—R. C. ARMATAGE, BA

DEANS— AGRICULTURE—J. R. WEIR, BSA *Tor.*, MSc *Alta.*, PhD *Minn.*; ARTS AND SCIENCE—W. J. WAINES, MA; DENTISTRY—J. W. NEILSON, BA MSc DDS; EDUCATION—J. M. BROWN, BA *McM.*, BEd *Sask.*, EdD *Stan.*, MEd; ENGINEERING AND ARCHITECTURE—A. E. MACDONALD, MSc(CE) *McG.*, DEng *N.S.T.C.*, MEIC; GRADUATE STUDIES AND RESEARCH—W. H. McEWEN, MSc *Sask.*, MA PhD *Minn.*; LAW—G. P. R. TALLIN, QC, BA *Oxon.*, LL.B; MEDICINE—L. G. BELL, MBE, MD, FRCP, FRCPCan, FACP

COMPTROLLER—W. J. CONDO, BA

ACTING LIBRARIAN—KATHLEEN CODDINGTON, BA MLS *Mich.*

DEAN OF WOMEN—MARJORIE MACKAY, BA

## TEACHING STAFF

[†—Part-Time]

### Actuarial Mathematics and Statistics

Vogt, E. R., BCom Assoc. Prof., Hd. of Dept.  
 Germain, C. B., BA *Coll.of.St.Thomas*,  
 MS *Wis. & Iowa* Asst. Prof.  
 Clare, J. L., MA *Camb.*, FSA Asst. Prof.  
 Paul, G. L., BSA MSc *Alta.*,  
 PhD *N.Carolina* Asst. Prof.

**Agriculture**, see below

### Anatomy

Thompson, I. M., BSc MB ChB *Edm.*,  
 FRSCan Prof., Hd. of Dept.  
 Sigurdson, L. A., MA *Stan.*, MD Assoc. Prof.  
 Bertalanffy, F. D., BSc *Vienna*, MSc  
 PhD *McG.* Assoc. Prof.  
 Moore, K. L., BA MSc PhD *W.Ont.*  
 Sinclair-Hall, A. H., MD, FRCSEd Assoc. Prof.  
 Klass, A. A., BA MD, FRCSEd,  
 FRCSCan †Asst. Prof.  
 Cooke, R. L., BSc *Sask.*, MD, FRCS,  
 FRCSCan †Lectr.  
 Decter, P. H., MD, FRCS †Lectr.  
 Merckley, N. P., MD ChM, FRCSCan †Lectr.  
 Osberg, E. A., MD †Lectr.  
 Nagy, K., BSc MD Lectr.  
 Winstock, A. J., MD †Lectr.

### Architecture and Interior Design

Russell, J. A., BSc(Arch) MARCH *M.I.T.*  
 Prof., Dir. of Sch  
 Sellors, R., MARCH *M.I.T.*, BArch Prof.  
 Harland, Joan M., MA *Col.*, BArch Prof.  
 Donahue, A. J., BArch *Minn.*,  
 MARCH *Harv.* Assoc. Prof.  
 Graham, J. W., BArch Assoc. Prof.  
 Kostka, V. J., IngArch *Prague* Assoc. Prof.  
 Chrabaszcz, J. J., BFA *Syr.* Assoc. Prof.  
 Dunklee, D. L., BArch *N.Y.* Assoc. Prof.  
 Gillmor, R. D., MARCH *M.I.T.*,  
 BArch Asst. Prof.  
 de Forest, C., MARCH *M.I.T.* Asst. Prof.  
 Featherstone, K., DipArchit *Manc.*,  
 MARCH *Ill.* Asst. Prof.  
 Forster, P. W. Asst. Prof.  
 Austmann, Miss Raquell, BID Asst. Prof.  
 Styliaris, D., DArchEng PhD(CP) *Berl.*  
 Asst. Prof.  
 Marshall, C. G., BID Asst. Prof.  
 da Rosa, G. U., BArch *H.K.* Asst. Prof.  
 6 Assts.

### Art

Williams, R. E., BA *CarnegieTech.Inst.*,  
 MFA *Iowa* Prof., Dir  
 Richards, C. C. Assoc. Prof.

Member of the Association of Universities of the British Commonwealth

Bjelajac, N., BS *Wis.State Coll. (Milwaukee)*, MS *Wis.* Asst. Prof.  
 Swinton, G., BA *McG.* (on leave) Asst. Prof.  
 Bruce, R. D. Asst. Prof.  
 Fore, I. K., BFA Lectr.  
 Moulton, W. D., BA *Kent State*, MFA *Iowa* Lectr.  
 Elrasson, G., DipArt Lectr., Registrar

**Astronomy**, see Maths.

### Biochemistry

Hagen, P. B., MB BS *Syd.* Prof., Hd. of Dept.  
 Delory, G. E., MSc PhD *Lond.* Assoc. Prof.  
 Klemberg, I., DDS *Tor.*, PhD *Durh.* Assoc. Prof.  
 Lees, H., BSc *Liv.*, PhD *Lond.* Assoc. Prof.  
 Limford, J. H., PhD *Lond.*, MSc Asst. Prof.  
 Fraser, M. J., MSc *Dal.*, PhD *Camb.* Asst. Prof.  
 Yamada, Esther, BSc PhD *W.Ont.*, MSc *McG.* Asst. Prof.  
 Suderman, H. J., MSc Asst. Prof.

### Botany

Waggood, E. R., MSA PhD *McG.* Prof., Hd. of Dept.  
 Isaac, P. K., DIC, PhD *Lond.* Assoc. Prof.  
 Ritchie, J. C., BSc PhD *Sheff.* Assoc. Prof.  
 Walker, Jennifer, BSc *Lond.*, MSc Lectr.  
 1 Res. Asst., 2 Res. Fellows

### Business Administration and Finance

Harris, R. F., BCom MA *Tor.* Prof., Hd. of Dept.  
 Grimmer, M. J. D., MA *Acad.* Asst. Prof.  
 Mundie, J. D., MBA *Ohio*, BCom Asst. Prof.  
 Waugh, J. B., BCom *Tor.* Asst. Prof.  
 Caterina, R., BCom *Tor.*, MBA *N.Y.U.*, CA Asst. Prof.  
 2 Sessl. Lectrs.

### Chemistry

Campbell, A. N., DSc *Aberd.*, MSc PhD *Lond.*, FRIC, FRSCan, FCIC Prof., Hd. of Dept.  
 Robinson, A. D., MA *Sask.*, PhD *Minn.*, FCIC Prof.  
 Charlesworth, E. H., MA *Qu.*, DPhil *Oxon.*, FCIC Prof.  
 Funt, B. L., MSc *Dal.*, PhD *McG.*, FCIC Prof.  
 Dunn, G. E., BSc *Acad.*, MA *Tor.*, PhD *Iowa* Prof.  
 Biernmann, W. J., BS *St.Louis*, PhD *Wis.* Assoc. Prof.  
 Kartzmark, Eleanor M., MSc PhD Asst. Prof.  
 Loudfoot, J. H., BSc *Glas.*, PhD Asst. Prof.  
 Gesser, H., PhD *McG.*, BSc *Loyola (Montreal)* Asst. Prof.  
 Schaefer, T. P., DPhil *Oxon.*, MSc Asst. Prof.  
 Anderson, J. A., PhD *Minn.* Hon. Lectr.  
 Rodewald, W., BSc Lectr.  
 Bock, E., MSc Lectr.

### Classics

Hugill, W. M., BA *Tor.*, PhD *Chic.* Prof., Hd. of Dept.  
 Berry, E. G., MA *Qu.*, PhD *Chic.* Assoc. Prof.  
 Goold, G. P., PhD *Lond.* Asst. Prof.  
 Russell, J., MA *Edin.* Lectr.

### Economics and Sociology

Waines, W. J., MA Prof., Hd. of Dept.  
 Barber, C. L., BA *Sask.* (on leave) Prof.  
 Pentland, H. C., MA *Oregon*, BA Assoc. Prof.  
 Bellan, R. C., MA *Tor.*, BA Assoc. Prof.  
 Dunning, R. W., MA *Tor.*, PhD *Camb.* Assoc. Prof.  
 Dallyn, F. J. G., BA *Tor.*, AM *Harv.* Asst. Prof.  
 Charles, K. J., MA *Madri.*, PhD *McG.* Asst. Prof.  
 Matthews, D., MA *Durh.* & *Calif.* Asst. Prof.

### Education

Brown, J. M., BA *McM.*, BEd *Sask.*, EdD *Stan.*, MEd Prof.  
 Boyce, Eleanor, MA LLD *St.F.X.*, PhD Assoc. Prof.  
 Lucow, W. H., MA *Ott.*, PhD *Minn.*, BA MEd Assoc. Prof.  
 Baker, Doris, BA MEd Assoc. Prof.  
 Harley, J. K., MA *St.And.*, EdM *Harv.* Asst. Prof.  
 Hedley, R. L., BA BEd Asst. Prof.  
 Wilson, K., MA *Sheff.*, BEd Asst. Prof.  
 12 Sp. Lectrs.

### Engineering, Civil

Riddell, W. F., MSc, MEIC Prof., Hd. of Dept.  
 Macdonald, A. E., MSc(CE) *McG.*, DEng *N.S.T.C.*, MEIC Prof.  
 Baracos, A., BSc MSc(CE) *Alta.* Assoc. Prof.  
 Carlson, A. J., BSc *Qu.*, MAsc *Tor.* Assoc. Prof.  
 Dutton, V. L., MSc *Penn.State*, BSc(CE) Assoc. Prof.  
 Kuiper, E., BSc(CE) *T.H.Delft*, MSc(CE) *M.I.T.* Assoc. Prof.  
 Larson, A. G., MAsc *Br.Col.*, MIE Assoc. Prof.  
 Magill, E. S., BSc(CE) Assoc. Prof.  
 Marantz, O., BSc(CE) MSc Assoc. Prof.  
 Glanville, J. I., MSc(CE) *Belf.* Asst. Prof.  
 Lazar, R., MSc(CE) *Ill.*, BSc(CE) Asst. Prof.  
 Beley, W. P., BSc(CE) Asst. Prof.  
 Clayton, G. L., BSc(CE) Asst. Prof.  
 Godfrey, T. W., MSc(CE) Asst. Prof.  
 Berwanger, C., BEng(CE) *McG.*, MSc *Qu.* Asst. Prof.  
 Dolhun, E., MSc(CE) Asst. Prof.  
 Morris, G. A., MSc(CE) Lectr.  
 16 Demrs.

### Engineering, Electrical

McMath, J. P. C., BSc(EE) *Alta.*, MEIC Prof., Hd. of Dept.  
 Wicks, S. G., BSc(EE), MEIC Assoc. Prof.  
 Haakonsen, H. M., BSc(EE) *Qu.* Assoc. Prof.  
 Johnson, R. A., MSc(EE) Assoc. Prof.

MacDiarmid, H. A., MSc(EE) Asst. Prof.  
 Bridges, E., MSc(EE) Asst. Prof.  
 Shepherd, W., BSc(Eng) *Lond.*,  
 MASC *Tor.* Asst. Prof.  
 9 Demrs.

### Engineering, Mechanical

Chant, R. E., MEng(Mech) *McG.*, MEIC  
 Prof., Hd. of Dept.  
 Gawley, H. N., BSc(ME) *Sask.* Assoc. Prof.  
 Bennett, C. P., MSc *Birm.*, BSc(ME),  
 MEIC Asst. Prof.  
 Alexander, W. D., MSc(ME) *Mich.*,  
 BSc(ME) Asst. Prof.  
 Fritz, C. G., BME *Villanova* Asst. Prof.  
 Craik, D. W., MSc *Minn.*, BSc(ME) Asst. Prof.  
 Young, H. J. T., BSc(ME) Asst. Prof.  
 North, H. T., BSc(ME) *Qu.* Asst. Prof.  
 6 Demrs.

### English

Wheeler, A. L., BA *Br.Col.*, MA *Tor.*,  
 PhD *Wis.* Prof., Hd. of Dept.  
 Saunders, Doris B., BLitt *Oxon.*,  
 LLD *Br.Col.*, MA Prof.  
 Peter, J. D., BA LLB *S.A.*, MA *Camb.* Prof.  
 Stobie, W. G., MA *Tor.* Assoc. Prof.  
 Brodersen, G. L., MA *Oxon.* Assoc. Prof.  
 Duncan, T. A. W., MA Assoc. Prof.  
 Howarth, H., MA *Oxon.* Assoc. Prof.  
 Turner, J. O., BA *Bed* Asst. Prof.  
 Robinson, J. M., MA Asst. Prof.  
 Woodbury, J. C., MA *Tor.*, BA Asst. Prof.  
 Collie, M. J., MA *Camb.* Asst. Prof.  
 Sanders, R. J., MA Asst. Prof.  
 Anderson, L., BA Lectr.  
 Gold, J., BA *Birm.*, PhD *Wis.* Lectr.  
 Stevenson, S. W., BA *Bishop's*, MA *McG.*,  
 PhD *Northwestern* Lectr.  
 Summerhayes, D. C., BA *McM.*,  
 MA *Tor.* Lectr.  
 Cowie, V. S., BA Lectr.  
 1 Grad. Asst.

### French

Jones, C. M., MA *Wales*, DU*Paris*  
 Prof., Hd. of Dept.  
 Jensen, C. A., BA *W.Ont.*, MA *Tor.*,  
 PhD *Chic.* Prof.  
 Richard, M. E. J., BA *Alta.*, Dipl *École*  
*dePrép., Paris* Assoc. Prof.  
 Clark, C. N., MA PhD *Yale* Asst. Prof.  
 Denny, E., MA Asst. Prof.  
 Goldstine, Enid, BA DU*Paris* Asst. Prof.  
 Walters, R. L., BA *Oberlin*, PhD *Prin.* Asst. Prof.  
 Joubert, A., Lèsl. Dipl'd'ÉtSup *Paris* Asst. Prof.  
 Clark, J. E., Dipl *ÉcoledePrép., Paris*,  
 BA Lectr.  
 Gewuist, A., Lèsl. Dipl'd'ÉtSup *Rennes* Lectr.  
 Martin, M. E., BA Lectr.

### Geography

Weir, T. R., BA *Br.Col.*, MA *Syr.*,  
 PhD *Wis.* Prof., Hd. of Dept.

Parker, W. H., MA BSc DipEd *Oxon.* Asst. Prof.  
 Warkentin, J. H. Asst. Prof.  
 Nieuwolt, S., PhD *Vienna* Lectr.

### Geology and Mineralogy

Brownell, G. McL., PhD *Minn.*, MSc  
 Prof., Hd. of Dept.  
 Leith, E. I., MSc Prof.  
 Wilson, H. D. B., MS PhD *Cal.Tech.*,  
 BSc Prof.  
 Ferguson, R. B., MA PhD *Tor.* Prof.  
 Russell, G. A., EM *Minn.*, MSc *Qu.* Assoc. Prof.  
 Brisbin, W. C., BSc(CE) PhD Asst. Prof.  
 Davies, J. F. Hon. Lectr.

### German

Stirk, S. D., MA *Oxon.*, DPhil *Bres.* Prof.  
 Maurer, K. W., PhD *Tübingen* Prof.  
 Cardinal, C. H., MA *McG.*, PhD *Tor.* Asst. Prof.

### History

Morton, W. L., MA BLitt *Oxon.*, BA  
 LL.D, FRSCan Prof., Hd. of Dept.  
 Glover, R., MA *Oxon.*, AM PhD *Harv.* Prof.  
 Oleson, T. J., PhD *Tor.*, MA Prof.  
 Webster, T. S., MA *Qu.* Assoc. Prof.  
 Yuzyk, P., MA *Sask.* Assoc. Prof.  
 McEwen, J. M., BA *Tor.*, MA *Manc.* Asst. Prof.  
 Mallett, M. E., MA DPhil *Oxon.* Lectr.

### Icelandic

Bessason, H., CandPhil CandMag *Iceland*  
 Assoc. Prof.

### Interior Design, see Archit.

### International Relations, see Pol. Sci.

### Judaic Studies

Schachter, Rabbi Z. M., MA *Boston* Assoc. Prof.  
 Sures, Mrs. Yael, BA *Jerusalem* Lectr.

### Law, see Affiliated Colls., below

### Mathematical Physics

Neamtan, S. M., BSc PhD *McG.*, MA *Tor.* Prof.  
 Coish, H. R., BA BSc *Mt.All.*, MSc *Dal.*,  
 MA PhD *Tor.* Prof.  
 Derrick, G. H., BSc *Q'ld.*, MSc PhD *Syd.* Lectr.

### Mathematics and Astronomy

Lawson, J. W., PhD *Chic.*, MA  
 Prof., Hd. of Dept.  
 McEwen, W. H., MSc *Sask.*, MA PhD *Minn.*  
 (Maths.) Prof.  
 Mendelsohn, N. S., MA PhD *Tor.* Prof.  
 Dulmage, A. L., MA PhD *Tor.* Prof.  
 Noonan, B., MA *Tor.*, PhD *McG.* Assoc. Prof.  
 Moser, W., MA *Minn.*, PhD *Tor.*, BA  
 Assoc. Prof.  
 Zeiler, F., MSc *Alta.*, MA *Minn.*, BSc  
 Asst. Prof.  
 Lockhart, R. J., BA *W.Ont.* Asst. Prof.  
 Finlayson, H. C., MSc *Alta.* Lectr.  
 Johnson, Diane, MSc Lectr.

**Medicine, see below****Microbiology**

- Payne, T. M. B., BSc(Agric) *McG.*,  
PhD *Edin.* Prof., Hd. of Dept.  
Campbell, N. F. R., BSA *Tor.*, MSc PhD  
Asst. Prof.  
Hawirko, Roma, MSc PhD *McG.*, BSc  
Asst. Prof.  
Sanwal, B. D., MSc *Alld.*, PhD *Delhi*,  
DrNatSc *Zür.* Asst. Prof.

**Mineralogy, see Geol. and Mineral.****Music**

- Gibson, R. W., MusB *Manc.*  
Assoc. Prof., Dir. of Sch.  
Sampson, Peggic, MusBac *Edin.* Asst. Prof.

**Nursing Education**

- Hart, Margaret E., BSc MA *Col.* Dir.  
McLeod, Mona M., BSc MA *Col.* Instr.

**Oriental Languages and Literatures**

- Taylor, Rev. G. E., MA BD Sp. Lectr.  
Smith, C. C., MS BD Sp. Lectr.  
Newcombe, C. R., STM *Oberlin*, BD *United*  
*Coll. (Mant.)*, BA Sp. Lectr.  
Wolverton, W. I., MA PhD Sp. Lectr.  
Wood, B. G. M., MA LTh Sp. Lectr.

**Pharmacy and Pharmaceutical Chemistry**

- Murray, J. R., MSc *Alta.*, PhD *Ohio State*  
Prof., Dir.  
Steele, J. W., BSc PhD *Glas.* Asst. Prof.  
Wensley, W. R., MSc(Pharm) *Tor.* Asst. Prof.  
Bilous, R., BSc(Pharm) Lectr.  
House, H. D., MSc Lectr.

**Philosophy**

- Sibley, W. M., MA *Br.Col.*, PhD *Brown*  
Prof., Chairman  
Glassen, P., MA *Tor.*, AM *Harv.* Assoc. Prof.  
Huggett, W. J., MA PhD *Tor.* Asst. Prof.  
Burgener, R. J. C., MA PhD *Tor.* Asst. Prof.  
Vincent, R. H., MA *Harv.*, BA Lectr.

**Physical Education**

- Kennedy, W. F. R., MA EdD *Col.* Prof., Dir.  
Fraser, A. J., BSc(PE) *McG.* Asst. Prof.  
Hrenchuk, E. J., BPhE *Tor.*, MA *Minn.*  
Asst. Prof.  
MacDiarmid, J., BPE *Br.Col.*, MA *Minn.*  
Asst. Prof.  
Jones, Magretta, BPE *Br.Col.* Lectr.  
Skinner, Ruth, BA BED Lectr.

**Physics**

- Whitmore, B. G., BSc *Lond.*, MA *Tor.*,  
PhD *Leip.* Prof., Hd. of Dept.  
Connor, R. D., PhD *Edin.* Prof.

- Roulston, K. I., BA MSc *Dub.*, PhD Prof.  
Kelly, F. M., MA PhD *Tor.* Prof.  
Douglas, D. G., MA *Sask.*, PhD *McG.*  
Assoc. Prof.

- Hogg, B. G., MA *Wesleyan*, PhD *McM.*,  
BSc Assoc. Prof.  
Standil, S., MSc *Qu.*, PhD Assoc. Prof.  
Standing, K. G., AM PhD *Prin.*, BSc  
Assoc. Prof.  
Kettner, M. E., MA PhD *Minn.*, BSc Asst. Prof.  
MacDonald, P. A. Asst. Prof.  
Cooke, I., BSc *Glas.*, PhD *Birm.* Asst. Prof.  
Dahlstrom, C. E., MA *Sask.*, PhD *McG.*  
Asst. Prof.

- Fairweather, I. Asst. Prof.  
Naqvi, S. I. H., MSc *Luck. & Manit.* Lectr.  
Tomchuk, E., BA MSc Lectr.

**Physiology, see Medicine, below****Polish, see Slavic Langs****Political Economy, see Econ.****Political Science and International Relations**

- Hiscocks, C. R., MA *Oxon.*, DPhil *Berl.*  
Prof., Hd. of Dept.  
Donnelly, M. S., BA *Mt.All.*, PhD *Tor.*  
Assoc. Prof.  
Avakumovic, I., MA *Lond.*, DPhil *Oxon.*  
Asst. Prof.  
Hull, W. H. N., MA PhD *W.Ont.* Asst. Prof.

**Psychology**

- Zubek, J. P., BA *Br.Col.*, MA *Tor.*,  
PhD *Johns H.* Prof., Hd. of Dept.  
Springbett, B. M., MA *Alta.*, PhD *McG.*  
Assoc. Prof.  
Burns, Joyce H., MA *Tor.*, BA Asst. Prof.  
MacCormack, P. D., BA *Car.*, MA *Del.*,  
PhD *Iowa* Asst. Prof.  
Koppenaar, R. J., MA *Br.Col.*, PhD *McG.*  
Asst. Prof.  
Wright, M., MA PhD *Tor.*, BA Asst. Prof.  
Cooper, R. M., PhD *McG.*, MA Lectr.

**Russian, see Slavic Langs.****Slavic Languages**

- Rudnyckij, J. B., PhD *Lwow*  
Assoc. Prof., Chairman  
Yuzyk, P., MA *Sask.* Assoc. Prof.  
Klymasz, R. †Lectr.

**Social Work**

- Mann, Helen M., AM *Chic.*, MA *McM.*  
Prof., Dir.  
Roger, Maysie, MA *Oxon.*, BA  
DipSocSc *Tor.* Assoc. Prof.  
Robins, Marjorie M., BA DipSocWork *Tor.*  
Asst. Prof.  
Easterbrook, Mary A., MSS *Smith*, BA  
DipSocWork Asst. Prof.

Hill, B., MSW *Tulane*  
 Coombe, Dorothy, BA DipSocWork  
*Br.Col.*  
 O'Grady, Frances, BA DipSocWork  
 Woolley, Patricia, MS *Col.*, BA BSW

Asst. Prof.

Field Instr.

Field Instr.

Field Instr.

**Sociology**, see Econ. and Sociol.**Statistics**, see Actuarial Maths.**Ukrainian**, see Slavic Langs.**Zoology**

McLeod, J. A., MSc PhD DipEd  
 Prof., Hd. of Dept.  
 Stewart-Hay, R. K., MSc  
 Houston, A. H., BSc *McM.*, MA  
 PhD *Br.Col.*  
 Weisman, H., MSc PhD  
 Lectr.

Asst. Prof.

Asst. Prof.

Lectr.

## AGRICULTURE AND HOME ECONOMICS

Weir, J. R., BSA *Tor.*, MSc *Alta.*,  
 PhD *Minn.*  
 Dean of Fac.

### Agricultural Economics and Farm Management

Sinclair, S., BSA MSc *Sask.*, PhD *Minn.*  
 Prof., Hd. of Dept.  
 Gilson, J. C., PhD *IowaStateAgric.*,  
 BSA MSc *Sask.*  
 Wood, A. W., BA BSA MSc *Sask.*,  
 PhD *Stan.*  
 Trifon, R., BA *Jerusalem*, PhD *Lond.*  
 Anderson, G. R., BS *Wis.*, MS *Mich.State*  
 Hudson, J. P., BSA  
 Yeh, M. H., BS *Taiwan*, MS *Mich.State*,  
 PhD *IowaStateAgric.*

Assoc. Prof.

Assoc. Prof.

Assoc. Prof.

Asst. Prof.

Res. Assoc.

Res. Assoc.

**Agricultural Engineering**

Lapp, H. M., BE *Sask.*, MEIC  
 Assoc. Prof., Hd. of Dept.  
 Domier, K. W., BE MSc *Sask.*  
 Asst. Prof.

**Animal Science**

Stringam, E. W., MSc *Alta.*, PhD *Minn.*  
 Prof., Hd. of Dept.  
 Savage, A., BSA *McG.*, DVM *Corn.*  
 Hodgson, G. C., MS *Corn.*, BSA DipEd  
 Assoc. Prof.  
 Kondra, P. A., PhD *Minn.*, BSA MSc  
 Assoc. Prof.  
 Seale, M. E., BSc *Alta.*, MS *Minn.*  
 Assoc. Prof.  
 Stothers, S. C., BSA *Tor.*, MS  
 PhD *Mich.State*  
 Assoc. Prof.  
 Roberts, W. K., BS *Calif.StatePolytechnic*,  
 MS PhD *Wash.State*  
 Asst. Prof.  
 McKirdy, J. A., MSc BEd *Alta.*  
 Parker, R. J., BSc *Glas.*, DipAgr *R'dg.*  
 Res. Asst.

Prof.

Assoc. Prof.

Assoc. Prof.

Assoc. Prof.

Assoc. Prof.

Asst. Prof.

Asst. Prof.

Res. Asst.

**Art**

Allen, Lillian B., BA MS *Syr.*  
 Franklin, Mrs. Evelyn, MA *Minn.*  
 Lectr.

Assoc. Prof.

Lectr.

**Clothing and Textiles**

.....  
 Morton, Margaret I., MA *Tor.*,  
 BSc(HEc)  
 Watson, Mrs. Kathleen T., MS *Minn.*,  
 BSc(HEc)  
 Waters, Dorothy, BA *StoutInst.*  
 Rennebohm, Fern H., MS *Wis.*

Asst. Prof.

Asst. Prof.

Asst. Prof.

Asst. Prof.

Asst. Prof.

**Dairy Science**

Nesbitt, J. M., MSc *Ohio State*, PhD *Penn.*  
 State, BSA  
 McNaughton, C. H., BSA *Sask.*, MSc  
 Reinart, A., AgronDip *Tartu*

Prof., Hd. of Dept.

Asst. Prof.

Res. Asst.

**Diploma Course**

Lange, E. E., MSc *McG.*, BSA  
 Assoc. Prof., Dir.

**Education**

Watson, Mrs. Kathleen T., MS *Minn.*,  
 BSc(HEc)  
 Asst. Prof.

**Entomology**

Thorsteinson, A. J., PhD *Lond.*, BSA  
 Prof., Hd. of Dept.  
 Robinson, A. G., MC, MSc *McG.*, BSA  
 Assoc. Prof.  
 Hanec, W., BSA MSc PhD *McG.*  
 Asst. Prof.  
 Hans, Miss H., DrScAgr *Gött.*  
 Postdoctorate Fellow

**Foods and Nutrition**

Feniak, Mrs. Elizabeth, MS *Minn.*,  
 BSc(HEc)  
 Assoc. Prof.  
 Smith, M. Louise, MS *Col.*, BSc(HEc)  
 Asst. Prof.  
 Weber, Shirley M., MS *Minn.*, BSc(HEc)  
 Asst. Prof.  
 Baxter, Donna M., MS *Simmons*, BSc(HEc)  
 Asst. Prof.

Assoc. Prof.

Asst. Prof.

Asst. Prof.

Asst. Prof.

Asst. Prof.

Asst. Prof.

**Home and Family Living**

Davis, Lorna M., MA *Tor.*  
 Prof., Dir., Sch. of Home Econ.  
 Keith, Dorothy H., BA *Sask.*, MEd *Tufts*  
 Asst. Prof.  
 Roberts, C. C., BEd MA *Wash.State*  
 Asst. Prof.

Asst. Prof.

Asst. Prof.

**Institutional Administration**

Smith, M. Louise, MS *Col.*, BSc(HEc)  
 Asst. Prof.  
 Rydeen, Anna, BSc(HEc)  
 Instr.

Asst. Prof.

Instr.

**Plant Science**

Shebeski, L. H. J., BSA MSc  
 Prof., Hd. of Dept.  
 Jenkins, B. C., BScAgr MSc *Alta.*,  
 PhD *Calif.* (Agron.) Samuel Rosner Prof.  
 Peterson, R. F., MS PhD *Minn.*, BSA  
 Hon. Prof.  
 Johnson, T., BSc BSA *Sask.*, MSc  
 PhD *Minn.*, FRSCan  
 Hon. Prof.  
 Helgason, S. B., MS PhD *Minn.*, BSA  
 Prof.

Prof., Hd. of Dept.

Hon. Prof.

Hon. Prof.

Hon. Prof.

Hon. Prof.

Prof.

## Soils

## MEDICINE

## Bacteriology and Immunology

**Medical Research**, see *Physiol. and Med. Res.*, below

## Medicine

Mathewson, F. A. L., MD BSc(Med)	†Assoc. Prof.
McEwen, D. S., BA BSc MD	†Assoc. Prof.
Walton, C. H. A., MSc MD, FACP	†Assoc. Prof.
Beamish, R. E., BA <i>McM.</i> , MD	†Asst. Prof.
Beckstead, J. L., MD	†Asst. Prof.
Hughes, J. F. S., MD MSc, FRCPCan	†Asst. Prof.
Israels, L. G., BA <i>Sask.</i> , MD MSc, FRCPCan	†Asst. Prof.
Kippen, D. L., MD, FACP	†Asst. Prof.
Maclean, J. P., MD	Asst. Prof.
Ross, R. T., MD, MRCP, FRCPCan	†Asst. Prof.
Schoemperlen, C. B., MD, FACP	†Asst. Prof.
Thomson, A. E., BA <i>Sask.</i> , MD MSc, FRCPCan	Asst. Prof.
Vaisrub, S., MD, MRCP, FRCPCan, FACP	†Asst. Prof.
Birt, A. R., MD (Dermatol.)	†Asst. Prof.
Brock, W. G., MS <i>Minn.</i> , BA MD	†Asst. Prof.
Brownell, E. G., MRCP, FRCPCan, FACP	†Asst. Prof.
Chermack, L., MD BSc(Med), FRCSCan	†Asst. Prof.
Cherniack, R. M., MD MSc	Asst. Prof.
Coke, L. R., MD	†Asst. Prof.
Fyles, T. W., MD MSc, FRCPCan	Asst. Prof.
Green, P. T., MD <i>Tor.</i>	†Asst. Prof.
Houston, A. B., BSc <i>Sask.</i> , MD, FRCPCan, FACP	†Asst. Prof.
Bennett, W. J., MD	†Lectr.
Campbell, M. H., MD	†Lectr.
Cera, L. J., MD MSc, FRCPCan	†Lectr.
Cumming, G. R., MD, FRCPCan	Lectr.
Downey, J. L., MD	†Lectr.
Hollenberg, M. S., BSc MA MD	†Lectr.
Karlinsky, W., MD, FRCPCan	†Lectr.
Lyons, B. H., MD <i>Alta.</i> , FRCPCan, FACP	†Lectr.

MacDonnell, J. A., MD	† Lectr.
McFarlane, R. H., MD	† Lectr.
McCreath, N. D., MB ChB N.Z., MRACP, MRCP	† Lectr.
Martin, J. H., BA MD	† Lectr.
Morris, J. E., BSc MB ChB <i>Manc.</i> , MD <i>Roch.</i> , MRCP	† Lectr.
Polson, R. A., MD, FRCPCan	† Lectr.
Pincock, J. G., MD	† Lectr.
Ross, E. L., MD	† Lectr.
Rusen, S., MD	† Lectr.
Scott, D. L., MD	(T.B.) † Lectr.
Sinclair, A. C., MD	† Lectr.
Snidal, D. P., MD MSc	Lectr.
Tisdale, P. K., BSc MD	† Lectr.
Cuddy, T. E., MD, FRCPCan	Lectr.
Frain, J. B., MD <i>Tor.</i> , FRCPCan	† Lectr.
McDowell, J. D., MB BCH <i>Belf.</i>	† Lectr.
Rogers, A. G., MD, FRCPCan	† Lectr.
9 Teaching Fellows, 12 Demrs.†, 5 Tutors†, 2 Sp. Lectrs.	

## Obstetrics and Gynæcology

Black, Elinor, MD, FRCSCan, FRCOG,  
FACS †Prof., Hd. of Dept.



## CANADA

Best, B., MD, FRCSEd, FRCSCan †Prof.  
 Lyons, R., BA, FRCOG †Assoc. Prof.  
 Andison, A. W., BA MD, FRCOG,  
 FRCSCan †Assoc. Prof.  
 McCord, W. J., MD, FRCSCan, FACS †Assoc. Prof.

Friesen, W. J., MD, FRCSCan †Asst. Prof.  
 Schmidt, O. A., MD, FRCSCan, FACS †Asst. Prof.

Willows, R. L., BA Sask., MD, FRCSCan †Asst. Prof.

Bleeks, C. K., MD †Lectr.  
 Guyot, H., BA MD †Lectr.  
 Henneberg, C., MD †Lectr.  
 Majury, A. S., MB BCh BAO *Belf.* †Lectr.  
 McCawley, J. C., MD, FRCSCan †Lectr.  
 McInnis, A. C., MD, FRCSCan †Lectr.  
 Mitchell, J. R., MD, FRCSCan †Lectr.  
 Roulston, T. M., MB BCh BAO *Belf.* †Lectr.  
 Rubin, L., MD †Lectr.  
 2 Teaching Fellows, 6 Demrs., †1 Tutor†

### Ophthalmology

Elvin, N. L., OBE, MD †Prof., Hd. of Dept.  
 Ramsay, R. M., MS(Ophthalm) *Minn.*,  
 MD †Asst. Prof.  
 Rose, J. E., MD †Asst. Prof.  
 Guest, W. C., MD †Asst. Prof.  
 Magee, D. R., MD †Lectr.  
 Reed, H. N., MB BS *Lond.*, DO *Oxon.*,  
 FRCS, FRCSCan †Lectr.  
 3 Demrs.

### Oto-laryngology

Alexander, W., MD †Prof., Hd. of Dept.  
 Rubin, J. A., MSc N.Y., MD †Lectr.  
 McGoey, J. E., BA MD †Lectr.  
 2 Demrs.†

### Pædiatrics

Medovy, H., BA MD Prof., Hd. of Dept.  
 Chown, H. B., MC, BA *McG.*, MD †Prof.  
 Israels, S., BSc *Sask.*, MD, FRCPCan,  
 FACP †Assoc. Prof.  
 Grant, W. W., BA *Alta.*, MD Assoc. Prof.  
 McLandress, M., MD †Asst. Prof.  
 Briggs, J. N., MD *Lond.*, MRCP †Asst. Prof.  
 Boyd, S. A., MD †Asst. Prof.  
 De Pape, A. J. D., BA MD, FRCPCan †Asst. Prof.  
 Marlatt, Helen, MD †Lectr.  
 Berger, M., BA *Sask.*, MD †Lectr.  
 Grewar, D., MB ChB *St.And.*, MRCPEd Lectr.  
 MacNeil, R. W., BSc MD †Lectr.  
 Zipursky, A., BSc(Med) MD Lectr.  
 Barsky, P., BSc MD †Lectr.  
 Bowman, W. D., MD †Lectr.  
 Coodin, F. J., MD CM *Qu.* †Lectr.  
 2 Teaching Fellows, 10 Demrs.†

### Pathology

Lederman, J. M., BSc *Sask.*, MD,  
 FRCPCan Prof., Hd. of Dept.

Williams, T. H., DTM&H *Lond.*, MD

CM †Assoc. Prof.  
 Wallace, A. C., BA MD *W.Ont.* Assoc. Prof.  
 Ridge, J. M., BSc MD Assoc. Prof.  
 Penner, D. W., BA *Sask.*, MD †Asst. Prof.  
 Hoogstraten, J., PhD *Camb.*, MD †Asst. Prof.  
 Burgoyne, F. H., MD, FACP †Asst. Prof.  
 Crowson, C. N., PhD *Edin.*, MD CM *McG.*,  
 MA *Qu.* †Asst. Prof.  
 Harmon, M., MD *Laval*, BA †Lectr.  
 Hogg, Georgina, BSc *Sask.*, MD †Lectr.  
 Ross, H. M., MD *Tor.* †Lectr.  
 Strawbridge, H. T. G., MD *Edin.*,  
 FRCPCan †Lectr.  
 van Wijhe, M., MD *Ley.* †Lectr.  
 3 Teaching Fellows, 1 Demr.

### Pharmacology and Therapeutics

Nickerson, M., MD *Utah*, AB *Linfield*,  
 ScM *Brown*, PhD *Johns H.* Prof., Hd. of Dept.  
 Lowenthal, J., MSc PhD *Montr.* Assoc. Prof.  
 Ormerod, M. J., MD *Tor.* Assoc. Prof.  
 Innes, I. R., MD *Aberd.* Assoc. Prof.  
 Dresel, P. E., BSc *Antioch*, PhD *Roch.* Asst. Prof.  
 Frank, G. B., MSc *OhioState*, PhD *McG.* Asst. Prof.  
 Cohen, L. H., PhD *Tor.*, MSc Asst. Prof.  
 Yamada, S. I., MSc PhD *W.Ont.* Asst. Prof.  
 LaBella, F. S., MA *Wesleyan*, PhD *Emory* Asst. Prof.  
 Cooch, Mrs. Joan, BS *St.Lawrence*, MS  
 PhD *Corn.* Lectr.  
 Parmar, S. S., MSc *Luck.*, PhD *Luck.* &  
*McG.* Lectr.  
 6 Teaching Fellows, 1 Demr., 1 Sp. Lectr.

### Physiology and Medical Research

Doupe, J., MD, MRCP, FACP Prof., Hd. of Dept.  
 Perry, W. F., BSc *McG.*, MA MD CM *Qu.* †Assoc. Prof.  
 Blanchaer, M. C., BA MD CM *Qu.* †Assoc. Prof.  
 Hildes, J. A., MD *Tor.*, MRCP,  
 FRCPCan Assoc. Prof.  
 Saunders, M. G., MSc MB ChB *Manc.* Asst. Prof.  
 Ferguson, Marion H., PhD *Edin.*, BSc Asst. Prof.  
 Gaskell, P., MD *W.Ont.*, PhD *Lond.* Asst. Prof.  
 Cadoret, R., AB *Harv.*, MD *Yale* Asst. Prof.  
 Carter, S., BSc(Med) MD MSc Asst. Prof.  
 Hagen, Jean H., BSc *Lond.*, DPhil *Oxon.* Asst. Prof.  
 Moorhouse, J. A., MD Asst. Prof.  
 Froese, G., MSc PhD *W.Ont.* Asst. Prof.

### Psychiatry

Sisler, G. C., MD, FRCPCan Prof., Hd. of Dept.  
 Adamsen, G. L., MD, FRCPCan,  
 MRCPEd †Assoc. Prof.

Pimcock, T. A., MD	†Asst. Prof.	Rennic, J. W. R., MD, FRCSEd,	
Stephens, G. M., MD	†Asst. Prof.	FRCSCan, FACS	†Asst. Prof.
Matas, I. J., MD	†Asst. Prof.	Trueman, K. R., MSc <i>Minn.</i> , BA MD,	
Wright, M. W., MA PhD <i>Tor.</i> , BA	†Asst. Prof.	FACS	†Asst. Prof.
Allison, G. E., MD, FRCPCan	Asst. Prof.	Huggins, Donald, BSc MD	
Johnson, E., BSc MD	†Asst. Prof.	(Anaesth.)	†Asst. Prof.
Atkinson, H. S., MD	†Lectr.	Klass, A. A., BA MD, FRCSEd,	
Lamberd, W. G., MB ChB <i>Liv.</i> , MSc	Asst. Prof.	FRCSCan	†Asst. Prof.
Lawler, R. H., MD	Asst. Prof.	Peikoff, S. S., MD, FRCSEd,	
Tavener, R. H., MD	Asst. Prof.	FRCSCan, FACS	†Asst. Prof.
Gibson, R., MD <i>Glas.</i>	†Lectr.	Rabson, L. R., BA MD, FRCSEd,	
Burch, J. E., MD	†Lectr.	FRCSCan	†Asst. Prof.
Glassco, W. G.	†Lectr.	MacKinnon, W. B., MD ChM,	
Gonsalves, C. T., MD CM <i>McG.</i>	†Lectr.	FRCSCan	†Asst. Prof.
Lindsay, J. H., MD <i>W.Ont.</i>	†Lectr.	Parkinson, D., MD CM <i>McG.</i> , MSc <i>Minn.</i> ,	
Asseltine, J. L., MD <i>Tor.</i>	†Lectr.	FRCSCan, FACS (Neurosurg.)	†Asst. Prof.
Bristow, M. E., MD	†Lectr.	Swartz, D., MD, FRCSEd, FRCSCan	
Brown, J. H., MB ChB <i>Edin.</i> , DPH <i>Lond.</i> ,			†Asst. Prof.
MRCP	†Lectr.	Stephenson, E. S., MD ChM, FRCSEd,	
Hunzinger, W. W., MD <i>Heidel.</i>	†Lectr.	FRCSCan	†Asst. Prof.
Schlichther, W., MD <i>Innsbruck</i>	†Lectr.	Deacon, A. E., MSc <i>Minn.</i> , MD	†Asst. Prof.
Thomson, I. B., MB ChB <i>Glas.</i>	†Lectr.	Bartlett, L. C., MD <i>W.Ont.</i> , FRCSCan	
2 Demrs.		Asst. Prof., Dir. Postgrad. Studies	

### Radiology

Macpherson, R. A., MD CM <i>Qu.</i>	†Prof., Hd. of Dept.	MacDougall, J. T., DSO, BA <i>Alta.</i> , MD	
Childe, A. E., MD	†Assoc. Prof.	CM <i>McG.</i> , FRCSEd, FRCSCan	Asst. Prof.
Walton, R. J., MB ChB N.Z., DMR		Merkeley, N. P., MD ChM, FRCSCan	Asst. Prof.
DMRT	†Assoc. Prof.	Cohen, M., PhD <i>Minn.</i> , MD, FRCSCan	Asst. Prof.
Hall, Clair W., MD	†Asst. Prof.	Cooke, R. L., BSc <i>Sask.</i> , MD, FRCS,	
Kiernan, M. K., BA MD	†Lectr.	FRCSCan	Asst. Prof.
S Demrs.		Bourgouin, J. J., MD	†Lectr.
		Holland, T. E., BSc MD, FRCSEd,	
		FRCSCan	†Lectr.
		McGibbon, K. C., MB <i>Tor.</i>	†Lectr.
		Bennett, Marjorie R., MD	†Lectr.
		Bruser, D. M., MBE, BA MD ChM,	
		FRCSCan	†Lectr.
		Fahrni, G. P., DSC, MD, FRCSCan,	
		FACS	†Lectr.
		Hollenberg, C., MBE, ChM <i>Liv.</i> , MD,	
		FRCS, FRCSCan	†Lectr.
		Isaac, J. E., MD, FRCSCan	†Lectr.
		Loadman, B. E., BA MD ChM	†Lectr.
		McBeath, J. H., MB ChB <i>Glas.</i> , FRCSEd	

### Social and Preventive Medicine

Cadham, R. G., DPH <i>Tor.</i> , MD	†Asst. Prof., Hd. of Dept.	Taylor, J. R., BA <i>Sask.</i> , MD MSc	†Lectr.
Elliott, M. R., OBE, DPH <i>Tor.</i> , MD	†Lectr.	Waugh, G., MD, FRCSCan	†Lectr.
Lansdown, L. P., DPH <i>Tor.</i> , MD	†Lectr.	Pickard, E. W., MD	†Lectr.
Malcolmson, H. M., BSc MD	†Lectr.	Welpy, W. R., MB BS <i>Lond.</i> , FRCS	†Lectr.
Morrison, J. B., MD DPH <i>Tor.</i>	†Lectr.	Berbrayer, P., MD, FRCS	†Lectr.
		McCarten, R. J., DDS <i>Tor.</i> (Dent.)	†Lectr.
		Cruikshank, L. F. G., MB ChB <i>Edin.</i>	†Lectr.
		Lehmann, M. J., BSc MD, FRCSCan	†Lectr.
		MacCaughy, T. J., MB BCh <i>N.U.I.</i>	†Lectr.
		Minuck, M., MD	†Lectr.
		Whytehead, L. L., BM BCh <i>Oxon.</i> , FRCS	

### Surgery

Ferguson, C. C., MD, FRCSCan, FACS	Prof., Hd. of Dept.	Zingg, W., MD <i>Zür.</i> , MSc, FRCSCan	†Lectr.
Corrigan, C. E., DSO, BA MD, FRCS,		Burns, C. M., MD, FRCSCan	†Lectr.
FRCSCan	†Assoc. Prof.	Duval, F. W., MD, FRCSCan	†Lectr.
Burrell, R. O., MD ChM, FRCSEd,		Goldstein, P., MD <i>Qu.</i> , FRCSEd,	
FRCSCan	†Assoc. Prof.	FRCSCan, FRCS	†Lectr.
Tucker, F. R., MChOrth <i>Liv.</i> , MD,		6 Teaching Fellows, 24 Demrs., 4 Tutors	
FRCSEd, FRCSCan	Assoc. Prof.		
Stewart, C. B., MD, FRCSEd,			
FRCSCan	(Urol.) †Assoc. Prof.		
Clark, C. W., MD ChM, FRCSEd,			
FRCSCan, FACS	†Assoc. Prof.		
Perrin, M. B., MD, FRCSEd,			
FRCSCan	†Assoc. Prof.		
Farr, J. T., MD, FRCSEd, FRCSCan	†Asst. Prof.		
Richardson, R. W., OBE, MD ChM	†Asst. Prof.		
James, E. S., MD, FRCS, FRCSCan	†Asst. Prof.		

## ADMINISTRATIVE AND OTHER STAFF

Dir., Sch. of Archt. : J. A. Russell, BSc(Arch) MArch *M.I.T.* Dir., Sch. of Home Econ. : Lorna M. Davis, MA. Dir., Univ. Extension and Adult Educn. : A. S. R. Tweedie, MA. Dir., Sch. of Music : R. W. Gibson, MusB. Dir., Sch. of Soc. Work : Helen M. Mann, AM *Chic.*, MA *McM.* Dir., Sch. of Art : R. E. Williams, BA *CarnegieTech.Inst.*, MFA *Iowa.* Dir., Summer Sch. : R. J. Lockhart, BA. Dir., Sch. of Comm. : R. F. Harris, BCom MA *Tor.* Dir., Sch. of Pharm. : J. R. Murray, MSc *Alta.*, PhD *Ohio*

*State.* Dir., Nursing Educn. : Margaret Hart, MA.

Recorder : Margerie White. Manager, Univ. Bookstore : J. A. M. Edwards, MA. Supt. of Bldgs. and Grounds : J. Illingworth. Dietitian, Univ. Residence : Anna Rydeen, BSc(HEc). Dir. of Men's Residence : Mrs. Clara Unwin. Dir. of Women's Residence : Mrs. M. V. McKinnon. Phys. Dir. : W. F. R. Kennedy, BPHE MA EdB *Col.*

## AFFILIATED COLLEGES represented on the Senate

### BRANDON COLLEGE\*

Founded 1899

Postal Address : Brandon, Manitoba, Canada

President—.....

Dean of Arts and Science—H. S. Perdue, MA *McM.*, PhD *Chic.*

Director of Music—L. Watson, BA LTCM *Tor.*

Director of Education—W. W. McCutcheon, BSc(Agr) *McG.*, BSc *SirG.Wms.*, BEd *Acad.*, MSA(Econ) *Tor.*, EdD *Corn.*, Assoc *Inst. of Educn., Lond.*

Bursar and Registrar—D. R. MacKay, BA.

TEACHING STAFF. Assoc. Profs.—E. A. Birkinshaw, BSc (Maths.); ..... (Geol.); H. V. Kidd, PhD *Lond.*, MSc, FCIC (Chem.); G. H. MacNeill, BA *Acad.*, MA *McG.* (French); E. Perry, BA *Lond. & Ont.*, MA *Tor.* (Engl.); R. M. Simmons, BA BTh BD *McM.*, STM *U.T.S.* (N.Y.) (Philos. & Religious Studies); W. D. Smith, MA *Tor.*, BA (Hist.); E. J. Tyler, MSc PhD *Utah*, BA (Psychol.); W. Wong, MA *Tor.*, BSc (Phys.). Asst. Profs.—W. H. Entz, PhD *Berl.* (German); R. H. Hannah, BA *McM.* (Biol.); R. Laskin, MA PhD *Penn.State* (Sociol.); G. F. MacDowell, BA(Econ) *Dal.*, MA(Econ) *Clark* (Econ.); H. S. Perdue, MA *McM.*, PhD *Chic.* (Geol.); B. Thordarson, MA *Minn.*, BA (Engl.); N. E. Walmsley, BCom MA *McG.* (Pol. Sci.). Instr.—D. R. Brown, BSc BPæd (Chem. & Phys.).

FACULTY OF EDUCATION AND TEACHER TRAINING. Dean, Assoc. Prof. of Educn. : W. W. McCutcheon, BSc(Agr) *McG.*, BSc *SirG.Wms.*,

BEd *Acad.*, MSA(Econ) *Tor.*, EdD *Corn.*, Assoc *Inst. of Educn., Lond.* Instrs.—G. A. Boux, BSc(PF) *McG.* (Phys. Educn.); D. R. Brown, BSc BPæd (Nature Study & Elem. Sci.); W. H. Entz, PhD *Berl.* (French); R. H. Hannah, BA *McM.* (Visual Educn.); M. K. Harpley (Art, Primary Methods & Speech); I. Mills, ARCT (Music); J. E. Outhwaite, BA BEd (Soc. Studies, Arith. & Educnl. Psychol.); W. Peters, BA BEd (Engl., Soc. Studies, Hist. of Educn.); J. C. Reid, BA (Remedial Engl. & Engl. Methods); B. Thordarson, MA *Minn.*, BA (Admin., Arith. & Maths.).

GENERAL INFORMATION. Founded in 1899 and affiliated to the Univ. of Manitoba since 1938, Brandon Coll. is a non-denominational, co-educational instn. offering courses leading to bachelor's degrees (of the Univ. of Manitoba) in arts, sci. and pedagogy and to associateships in music of the Royal Conservatory of Music, Univ. of Toronto (ARCT) and of the Univ. of Manit. (AMM). The coll. was under the control of a bd. apptd. by the Baptist Union of W. Canada until 1938 when it was reorganized and incorporated under the laws of the province of Manitoba, the responsibility for the control and admin. of its affairs being assumed by a bd. of directors of Manitoba citizens. From 1910 to 1938 the coll. was affiliated to McMaster Univ.

Student numbers (1959-60): 351 full-time (arts, & sci., educn., teacher trg.), 386 part-time (evening lectures and music).

ST. BONIFACE COLLEGE, St. Boniface (tel. : Winnipeg CH-7-4819). (R.C.). Rector—Very Rev. O. Boily. Provides full 4-yr. course for BA 'Latin philos.' of the univ.

ST. JOHN'S COLLEGE, Winnipeg (tel. : Winnipeg WH-2-2566). (Anglican Church of Canada). Warden—Rev. Canon L. F. Wilmot, BA BD LL.D. 'Awards degrees of LTh, BD and Hon.

\* Associate Member of the Association of Universities of the British Commonwealth

DD. Provides full 4-yr. course for BA of the univ.

UNITED COLLEGE, Winnipeg (tel. : Winnipeg SP-2-0314). (United Ch. of Canada). Principal—W. C. Lockhart, MA PhD DD. Provides full 4-yr. course for BA of the univ.

ST. PAUL'S COLLEGE, Winnipeg (tel. : Winnipeg WH-3-2471). (R.C.). Rector—Very Rev. H.

Kierans, MA. Provides full 4-yr. course for BA of the univ.

MANITOBA LAW SCHOOL, Winnipeg (tel. : Winnipeg WH-6-7378). Dean—G. P. R. Tallin, QC, BA Oxon., LLB. Provides full 4-yr. course for LLB of the univ. and also grad. studies for LL.M of the univ.

## GENERAL INFORMATION

The univ. was establd. by act of the provincial legislature in 1877 on the model of the Univ. of London, as an examining and degree-conferring body, the instruct. to be given in the affiliated colls. which were already in existence, viz. : St. Boniface Coll., St. John's Coll. and Manitoba Coll. This list was subsequently extended to include Manitoba Medical Coll. (1882), Wesley Coll. (1888), Manitoba Coll. of Pharmacy (1902), Manitoba Agric. Coll. (1907), Manitoba Law Sch. (1914), St. Paul's Coll. (1931) and Brandon Coll. (1938). In 1900 the univ. was, by legislative enactment, given power to offer instruct. In 1929, having outgrown its city bldgs., the univ. was removed to a permanent rural site with ample space for expansion. In 1940 a systematic programme of work in rural adult educn. was begun. The unprecedented influx of students at the conclusion of hostilities in 1945 gave a great stimulus to expansion. The fac. of grad. studies & res. was establd., a chair of Icelandic, and depts. of slavic studies, univ. extension & adult educn., zool., microbiol. and agric. econ. In 1950 the univ. sch. of art was opened and in 1953 the new library. A chair of agron. was establd. in 1954.

The univ. has the sole power in the province of conferring degrees in arts, sci., law, med., engin., pharmacy, comm., agric., home econ., educn., pedagogy, archit., interior design, fine arts and soc. work. It received in 1898 from the dominion govt. a land grant of 150,000 acres.

LOCATION. The bldgs. occupied by the facs. of med., dent. and law are in the city of Winnipeg. The site of the facs. of arts & sci., agric. & home econ., engin. & archit., educn., the grad. sch. of soc. work, and the grad. sch. of nursing, is in the municipality of Fort Garry, 7 mls. from the centre of Winnipeg. The univ. has 50 bldgs. on this site, incl. the residence which has accomm. for 600 students. Also on this site are the dominion rust res. lab., the dominion lab. of plant pathol., the dominion lab. of entomol. and the provincial experimental fur farm.

CONSTITUTION. General management of the univ. is vested in a bd. of 14 governors, 9 of whom are apptd. by the lt.-governor in council, 3 elected by grads. from among their own number, the remaining 2 being the chancellor and the pres. *ex officio*. The bd. has corporate powers, and in all matters relating to the management of the univ., incl. academic affairs, it enjoys plenary

powers. The prime academic body is the senate, whose membership consists of the pres. as chairman, chancellor, dep. minister of educn., chairman of the advisory bd. of the dept. of educn., deans of facs., reps. of profs. in each fac., dirs. of schs., and reps. of affiliated colls., the Coll. of Physicians and Surgeons of Manit., and the alumni assocn. Under its control are entrance requirements, courses of study, methods of instruct., appointment of examiners, approval of degrees, and related matters.

INCOME (1958-59). Total income, \$6,789,606 (govt. grants, 56.2 per cent. ; fees, 22.2 per cent. ; services, 3.6 per cent. ; endowments & other sources, 18 per cent.).

FACULTIES (for deans, see p. 214). *Arts & sci.* fac. providing instruct. in all subjects of undergrad. courses in arts (except 6 options and the Latin philos. course for French-speaking students of St. Boniface Coll.), sci., pharmacy and comm. ; *med. ; engin., archit. & interior design ; agric. & home econ. ; educn.* Other subjects of arts course are taught in the affiliated colls. Law is taught in the Manitoba law sch., which is under the direction of trustees jointly apptd. by the univ. and the Law Soc. of Manitoba. Public health nursing and teaching and supervision in schs. of nursing are taught to grad. nurses in the grad. sch. of nursing, directed by the univ. and financed by the provincial dept. of health and public welfare. Academic and clin. trg. of social workers is carried on in the grad. sch. of soc. work. A course leading to the degree of bachelor of fine arts is taught co-operatively by the fac. of arts & sci., the sch. of art, the sch. of archit. and the sch. of home econ.

UNIV. LIBRARY. 210,000 vols. ; 1475 periodicals recd. There are also 30,410 mounted plates and photographs and 10,000 slides in the sch. of archit. The med. coll. has a library of over 27,000 vols., and receives 450 periodicals.

LABORATORIES. Anat., bacteriol., bot., chem., engin. (material testing—200,000 lb., cement, electr.), geol. & mineral, pathol., phys., physiol., zool.

MUSEUMS. Anat., bot., embryol., geol., pathol.

HOSPITALS available for clinics : 6 general (2500 beds) and several special, incl. TB., infectious dis. and psychopathic hospitals. Hosps. offering clin.

instructn. are Winnipeg General H., St. Boniface H., Winnipeg Children's H., Grace H., Deer Lodge Military H. and the City Municipal Hs.

FARM (1000 acres).

ADMISSION. See Appendix II.

FIRST DEGREES. 4 yrs.—BA gen., BSc gen., BCom, BScEng (civil, electr., mech., or geol. engin., engin. phys.), BSc(HEC), BFA, BID; 5 yrs.—BA hons., BSc hons., BCom hons., BPed, BArch, BSA; 4 yrs. following 1 yr. in arts and sci.—BSc(Pharm); 4 yrs. following 2 yrs. in arts and sci.—LLB; 4 yrs. following 2 pre-dent. yrs.—DMD; 4 yrs. following 3 pre-med. yrs.—MD.

Subjects for the BA gen. and BSc gen. are placed in 3 groups (humanities, soc. scis., phys. scis.) from each of which selection is made in accordance with definite regns.; e.g. for the BA, compulsory subjs. are Engl. (2 yrs.), a foreign lang. (2 yrs.), maths. (1 yr.).

BA hons. (in 1 or 2 subjs.) may be taken in classics, econ., Engl., French, geog., German, hist., Icelandic, philos., pol. sci. & internatnl. relns., psychol., slavic studies. BSc hons. may be taken in actuarial maths. & stats., bot., chem., geol. & mineral., maths., mathl. phys., microbiol., phys., zool. In the BSA degree course certain specialist options are available, and hons. may be taken in plant sci.

In the BScEng course a thesis is required in the 4th yr. A summer thesis may be presented for credit by students entering the 2nd, 3rd or 4th yr.

While taking the LLB course a student may simultaneously obtain the Law Society of Manitoba's qualif. for practice. Students who have graduated BArch may qualify for licence to practise by 2 yrs.' service in an architect's office.

No degree can at present be taken by pt.-time or evg. courses.

HIGHER DEGREES. 1 or 2 yrs.' postgrad. course—MA, MSc, MArch, MArch(CP), LLM, BSocW, MSocW; 2 yrs.' postgrad. course—BEd; 1 yr. after BEd—MED; res. courses governed by sp. regns. lead to BSc(Med), MSc(Med) and PhD degrees.

For the MSc, and usually for the MA, a thesis is required as well as exam. Candidates who hold the BA gen. or BSc gen. degree of the univ. (or an equivalent degree) study 2 further yrs. for the master's degree and are required in their 1st yr. to take certain hons. courses. The MA may be taken in classics, econ., Engl., French, geog., German, hist., Icelandic, oriental langs. & lit., philos., pol. sci. & internatnl. relns., psychol., slavic studies, sociol. The MSc may be taken in agric., home econ., civil or electr. engin., as well as in certain sci. subjs. of the univ. (incl. maths.).

HONORARY DEGREES. LLD, DLitt, DSc.

The univ. does not award EXTERNAL DEGREES, but offers sch. teachers the opportunity of gaining degrees by correspondence courses (limited to the 2nd yr. in arts), extension courses in arts, sci. and educn., and the annual 6-wk. summer sch. See

'Univ. Extension', 'Extra-Mural Work' and 'Vacation Courses', below.

DIPLOMAS. Agric. (2 yrs.); dairying (5 mos.); sch. of nursing (1 yr.).

The univ. conducts exams. for admission to the practice of dent. and membership of the Manitoba Dental Assocn., to the practice of accty. and membership of the Inst. of Chartered Accountants of Manitoba, to the practice of archit. and membership of the Manitoba Assocn. of Architects and in the basic scis. for candidates seeking licensure with the Coll. of Physicians and Surgeons of Manitoba.

MUSIC. The univ. conducts exams. in all grades of vocal and instrumental music (piano, organ, violin, viola, violoncello) and musical theory and hist. leading to the dipl. of Assoc. in Music, Manit. (AMM). Holders of the AMM or equivalent standing may obtain the licentiate-ship dipl. on passing an advanced practical exam. Music may be offered as an elective for matric. if carried for 2 or 3 yrs. in high sch. and at least the prescribed min. grade is attained. It is also an elective in arts and in the 2nd and 4th yrs. in home econ. Practical instructn. must be obtained from private teachers.

Exams. are based on a syllabus of the Western Bd. of Music, composed of reps. of the univs. and depts. of educn. of Manitoba, Saskatchewan and Alberta.

FEES. Annual tuition fees. Undergrad.: agric., arts, educn. (1st yr.), fine arts, home econ., interior design, nursing educn., \$250; archit., engin., \$350; comm., soc. work, \$275; dent., \$425; law, \$225; med., \$500; pharm., \$300; educn. (2nd yr.), \$220. Grad. studies and res.: pre-MA, pre-MSc(HomeEc), \$250; pre-MSc, \$275; LLM, \$160; MSW, \$275; other master's degrees, \$175; PhD, 1st yr., \$175, other yrs., \$135. Dipl. courses: agric. (new course), \$125, (old course), \$60; art, \$175.

POSTGRADUATE AWARDS open to grads. of other univs. Canadian Industries Ltd. res. fellowship of \$2000 is offered annually to any British subject who is a grad. of a recognized univ. for res. in agric. chemicals at the Univ. of Manitoba. 1 Cominco fellowship of \$1500 is offered annually for res. in mining, metall. or chem. industry by a grad. of a recog. univ. D'afoe fellowship of \$2500 is offered annually to a candidate doing grad. work in internatnl. relns.

RESIDENCE. Hostels at all affiliated arts colls. and at Fort Garry site. Fees, \$50-\$55 p.m.

UNIVERSITY EXTENSION. Institute evg. courses (cultural); winter evg. business courses in accty., comml. law, Engl., pol. econ., etc., given partly by members of regular univ. staff; radio popular lectures and broadcasts of music chosen from music syllabus; short courses in farm equipment repairing, bee-keeping, home-making, dairying, poultry, home vegetables and fruit growing, home grounds beautification and flower growing, fur farming, field crops, nutrition and diseases of

farm animals; Feb. series of popular lectures; programme of adult educn. in fine arts in rural communities of the province; Manitoba Labour Inst. classes; extension service in agric. and home econ. through correspondence, lectures, judging, bulletins, etc.; dept. of music extension, under a dir. of music; evg. courses for credit in certain arts subjects of the 2nd yr., in Winnipeg and at selected rural centres (*see below*).

**EXTRA-MURAL WORK.** Correspondence courses carrying degree credit are offered in certain subsjs. of the 2nd yr. in arts. Only 1 full course or 2 half courses may be taken in any 1 regular session.

**VACATION COURSES.** Summer sch. (6 wks.) in July and Aug. Courses for teacher trg. and in grade XII and arts and sci. subsjs.

**ALUMNI ASSOCIATION.** Founded in 1921 to deal as a body with all matters affecting the interests of alumni. Executive dir.—J. M. Gordon, BA.

**MILITARY UNITS.** Trg. is offered leading to commissions in either active or reserve forces of the navy and the army by the Univ. of Manitoba naval trg. division (U.N.T.D.) and the Univ.

of Manitoba contingent Canadian officers' trg. corps (C.O.T.C.) respectively; and to commissions in regular or reserve force by the Univ. of Manitoba squadron, Royal Canadian Air Force.

**HEALTH SERVICE.** Students are required to undergo a health exam. at beginning of each session.

**STUDENT ATHLETIC FACILITIES.** 2 large well-equipped gymnasias with seating for 1800 spectators; 2 recreation halls, ice rink, curling rink, rifle range, and playing fields on campus. Off-campus accomm. provided for track, tennis, golf, swimming, bowling.

**PUBLICATIONS.** *General Calendar* (May), free; *Manitoban* (students' paper), bi-weekly (free to Manitoba students; others, \$1 p.a.); *Annual Report* (free); *Creative Campus* (student and staff, publ. annually, 25 c.); *One University: A History of the University of Manitoba, 1877-1952*. W. L. Morton. (McClelland, 1957.)

**UNIVERSITY PRESS.** Founded in 1945; operates under guidance of the univ. book dept. Manager, J. A. M. Edwards, MA.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Natnl. Res. Council, \$252,006; Defence Res. Bd., \$48,620; Fed. Dept. of Natnl. Health & Welfare, \$133,253.

(Total value of *all* benefactions received, excl. scholps. & bursaries, \$1,002,712, incl. \$269,439 from province of Manitoba.)

**MAJOR BUILDING DEVELOPMENTS.** *Buildings completed:* sch. of archit.; fac. of dent.; United Coll.

**RETIREMENTS.** Prof. D. McDougall (pharm.); Prof. M. E. LaZerte (educn.); Assoc. Prof. I. Beckman (med.); Dr. A. M. Goodwin (med.).

**RESIGNATIONS.** Asst. Prof. J. C. Stovel (archit.); Dr. J. P. MacLean (med.); Asst. Prof. June Jackson (home econ.); Asst. Prof. E. Jeannette Orr (home econ.); F. G. Maccabee (Engl.); Asst. Prof. Shirley Naleykin (phys. educn.); Assoc. Prof. G. H. Ryan (med.); Dr. W. B. Lang (med.); R. O. Guy (comm. law); Assoc. Prof. N. T. Divinsky (maths.); Mary Hendrickson (phys. educn.); Mary I. McLellan (phys. educn.).

**DEATHS.** Dean Emer. E. P. Fetherstonhugh (engin.); Emer. Prof. H. W. Wright (psychol.); Prof. D. McDougall (pharm.); Beatrice Brownlee (university dietitian).

**HONORARY DEGREES.** *LLD*—E. R. Arthur, prof. of archit. design, Tor.; H. E. Bulyea, former dir. sch. of dent., Alta.; Hon. B. Claxton, chairman, Canada Council; J. N. B. Crawford, dir. gen. Treat. Services, D.V.A.; H. Lyons, dean, sch. of dent., Univ. of Virginia; H. J. Merkeley, dental practitioner; M. S. Osborne, head, dept. of archit., Penn. State Univ.; J. W. Sanger, mem. Man. Hydro Elec. Bd.; G. G. Smith, financier. *DSc*—J. H. Craigie, prin. res. pl. path., sci. service, Can. Dept. Agric.

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	4155	436
Women . . .	1577	170
Total	5732	606

Distribution by Faculties, etc. *Agric.*, 199; *archit.*, 225; *art dipl.*, 57; *arts & sci.*, 3418; *comm.*, 90; *dent.*, 42; *educn.*, 297; *engin.*, 705; *fine arts*, 46; *home econ.*, 208; *int. des.*, 87; *law*, 122; *med.*, 199; *nursing educn.*, 35; *pharm.*, 95; *soc. work.*, 67; *grad. studies*, 437.

*Included in the figures above are:—*

Postgraduate students, 437.

New admissions, 1900.

Students from other countries, 291. (Countries from which largest numbers came: W. Indies Fed., 176; Hong Kong, 64; India, 8).

**DEGREES AWARDED (1958-59).** PhD, 3; MA, 8; MSc, 32; MArch, 2; MEd, 31; BA gen., 240; BALatPhil, 8; BSc gen., 122; BScPharm, 20; BCom gen., 13; BA (hons.), 9; BSc (hons.), 20; BCom (hons.), 7; LLB, 38; MD, 55; BSc(Med), 14; BScHEc, 28; BSA, 30; BSc Eng(Civil), 41, (Elect), 36, (EnginPhys), 2, (Mech), 43, (Geol), 4; BArch, 14; BEd, 105; BPæd, 72; BPæd (hons.), 4; BIntDes, 14; BFA, 6; BSW, 37; MSW, 10.

**DIPLOMAS AWARDED (1958-59).** Agric., 25; anæsthesiol., 6; art, 5; dairying, 6; music, 11; surg., 4; interior decoration, 1.

**CERTIFICATES AWARDED (1958-59).** Nursing educn., 30; soc. work, 3.

# MEMORIAL UNIVERSITY OF NEWFOUNDLAND\*

Founded 1949 ; previously established as Memorial University College, 1925

Postal Address : St. John's, Newfoundland, Canada

Telephone : St. John's 9-2041

VISITOR—His Honour The Lieutenant-Governor, The Hon. C. MACPHERSON, OBE

CHANCELLOR—The Rt. Hon. THE VISCOUNT ROTHERMERE OF HEMSTED, Hon. DCL *Bishop's*

VICE-CHANCELLOR AND PRESIDENT—R. GUSHUE, CBE, QC, LLB Hon. LLD *Dal.*, Hon. DCnL *K.C.N.S.*

CHAIRMAN OF THE BOARD OF REGENTS—E. J. PHILAN, QC

DEAN EMERITUS—A. C. HUNTER, BA *Lond.*, MA *Oxon.*, DUParis

DEANS—APPLIED SCIENCE—S. J. CAREW, BSc *Dal.*, BE(Mining) *N.S.T.C.* (Engin.) ; ARTS AND SCIENCE  
—M. O. MORGAN, MA *Dal.* & *Oxon.* (Pol. Sci.) ; EDUCATION—G. A. HICKMAN, BA *Mt.All.*,  
MA *Acad.*, EdD *Col.*

REGISTRAR—H. T. RENOUE, JP, FCIS

LIBRARIAN—ADA GREEN, BA *Mt.All.*, BLS *McG.*

BURSAR—P. A. WINTER

## TEACHING STAFF

[† = Part-Time]

### Art

Shepherd, R.

† Lectr.

### Biology

Andrews, C. W., BSc *Mt.All.*, MA *W.Ont.*,  
PhD *Tor.*

Prof.

Lear, E., BSc *Acad.*

Assoc. Prof.

Bartlett, G. W., BA *Mt.All.*, BSc *Lond.*,  
DPhil *Oxon.*

Asst. Prof.

Ali, M. A., MSc *Madras*, PhD *Br.Col.*

Asst. Prof.

Mortimer, Joan, BSc *W.Ont.*

Asst. Prof.

Templeman, W., OBE, BSc *Dal.*, MA  
PhD *Tor.*, FRSCan

† Res. Prof.

Feltham, L. A. W., BSc *Dal.*, MA *Tor.*

Visiting Lectr.

### Chemistry

Cooper, D. L., BSc *K.C.N.S.*, MSc *Dal.*,  
PhD *McG.*

Prof.

Anderson, H. J., MSc *Mamt.*,  
PhD *Northwestern*

Assoc. Prof.

Lynch, B. M., MSc PhD *Melb.*

Asst. Prof.

Jones, I. M., BSc *McG.*

Lectr.

Shilton, R., MSc

Sp. Lectr.

### Classics

Ashley, J. B., BA *Dal.*, MA *Oxon.*

Prof.

Reardon, B. P., MA *Glas.*

Asst. Prof.

Cochrane, Mrs. Mary, BA *Durh.* (Latin) † Lectr.

### Commerce

Gardiner, P. J., MA *Oxon.*

Assoc. Prof.

Soper, P. L., LLB *Dal.*

† Lectr.

Grieve, J. D.

Lectr.

Renouf, H. T., JP, FCIS

Lectr.

### Economics

Copes, P., MA *Br.Col.*, PhD *Lond.*

Assoc. Prof.

Church, G. C., MA *Sask.*

Asst. Prof.

### Education

Hickman, G. A., BA *Mt.All.*, MA *Acad.*,  
EdD *Col.*

Prof.

Rowe, W. G., BA *Dal.*, MA *Col.*

Assoc. Prof.

Ivany, C., BA *Acad.*, BEd *Tor.*

Assoc. Prof.

Crocker, O. K., BA *Acad.*, EdM *Harv.*

Assoc. Prof.

Evernden, W. L., BA BEd *Sask.*, MSc  
EdD *Tennessee*

Assoc. Prof.

Gushue, W. J., EdD *Boston*, BA(Ed)

Asst. Prof.

Ivimey, R., BSc *Acad.*, BEd *Tor.*

Asst. Prof.

Janes, Ethel, BA(Ed)

Asst. Prof.

Johnson, E., BA *Leeds*, BEd *Q'ld.*

Asst. Prof.

Layman, Grace, BA *Wilson (Pa.)*, MA *Col.*

Asst. Prof.

### Engineering

Carew, S. J., BSc *Dal.*, BE(Mining) *N.S.T.C.*

Prof.

\* Member of the Association of Universities of the British Commonwealth

Facey, J. M. C., BSc(Eng) <i>Lond.</i>	Assoc. Prof.	McAndrew, Mrs. Dorothy, MA <i>Lond.</i>	
Nemec, A. O., BSE <i>Mich.</i>	Asst. Prof.		Asst. Prof.
Dyer, H., BE(Mech) <i>N.S.T.C.</i>	Asst. Prof.	Matthews, Mrs. R., MSc <i>Lond.</i>	Sp. Lectr.

**English**

Seary, E. R., MA PhD <i>Sheff.</i>	Prof.
Pitt, D. G., BA <i>Mt.All.</i> , MA <i>Tor.</i>	Assoc. Prof.
Story, G. M., BA <i>McG.</i> , DPhil <i>Oxon.</i>	
	Assoc. Prof.
Macdonald, A. A., MA <i>Aberd.</i> , BLitt <i>Oxon.</i> , PhD <i>Manit.</i>	Asst. Prof.
O'Reilly, Alison, MA <i>Tor.</i> , PhD <i>Lond.</i>	
	Asst. Prof.
West, P. N., BA <i>Birm.</i> , MA <i>Col. &amp; Oxon.</i>	
	Asst. Prof.
Kirwin, W., AB <i>Bowdoin</i> , MA <i>Chic.</i>	Asst. Prof.
Frecker, Mrs. Helena, MA <i>Tor.</i>	†Lectr.
Harrington, M. F., BA	†Lectr.
Pratt, Mrs. Jean, BA <i>K.C.N.S.</i>	†Lectr.

**Forestry**

Wilton, W. C., BScFor <i>New Br.</i>	†Lectr.
Green, J., BSc <i>N.Y.StateU.</i> , MSc <i>Syr.</i> , PhD <i>Corn.</i>	Lectr.

**French**, see Mod. Langs.

**Geography**

Summers, W. F., BSc <i>Dal.</i> , MSc PhD <i>McG.</i>	Assoc. Prof.
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**Geology**

Blueckner, W. D., PhD <i>Basle</i>	Prof.
Clifford, P., BSc <i>S'ton</i> , PhD <i>Lond.</i>	Asst. Prof.
Hughes, R. D., MA <i>Br.Col.</i> , PhD <i>Oklahoma</i>	Asst. Prof.
	Lectr.
Peters, H. R., MSc <i>Dal.</i>	

**History**

Rothney, G. O., BA <i>Bishop's</i> , MA PhD <i>Lond.</i>	Prof.
Hagar, F. A., MA <i>Harv.</i> , MLitt <i>Camb.</i> , PhD <i>Calif.</i>	Asst. Prof.
Gerson, J., MIA <i>Col.</i>	Asst. Prof.
Panting, G. E., MA <i>Manit.</i>	Asst. Prof.
Whiteley, W. H., BA <i>Br.Col.</i> , MA <i>Qu.</i>	Archivist-Historian

**Mathematics**

Blundon, W. J., BA <i>Lond.</i> , MA <i>Col.</i>	Prof.
Carragher, J. P., BA <i>BAI Dub.</i>	Asst. Prof.
Eckete, A. E., Dip <i>Bud.</i> , MSc <i>Ott.</i>	Asst. Prof.

**Modern Languages**

Stoker, J. T., MA <i>Leeds</i> , DUParis	Prof.
Jackson, H. H., BA <i>Lond.</i> , LL.D <i>Vienna</i>	
	Assoc. Prof.
Wilshire, A. D., BA <i>Lond.</i>	Assoc. Prof.
Burghardt, W., MA <i>Tor.</i>	Asst. Prof.
Hewson, J., BA <i>Lond.</i> , MA <i>Laval</i>	Asst. Prof.
Smith, D., BA <i>Leeds</i>	Asst. Prof.
Hanard, Jane, BScL <i>Algiers</i>	Lectr.
Muzychka, S., MA <i>Madrid</i>	Lectr.

**Music**

Rumboldt, I.	†Instr.
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**Philosophy**

Brown, N. J. P., MA BPhil <i>Oxon.</i>	Assoc. Prof.
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**Physical Education**

Eaton, J. D., BPHE <i>Tor.</i> , MA <i>Col.</i>	Assoc. Prof.
Gerstman, Thelma, BSc(PE) <i>McG.</i>	Asst. Prof.

**Physics**

Breckon, S. W., BSc <i>Qu.</i> , PhD <i>McG.</i>	Prof.
Noel, T. C., MSc <i>Dal.</i>	Assoc. Prof.
Cho, C. W., BSc <i>Seoul</i> , MA PhD <i>Tor.</i>	
	Asst. Prof.
Hunt, J. L., BA <i>Qu.</i> , MA PhD <i>Tor.</i>	Asst. Prof.
Singh, J. J., BA MSc <i>Panj.</i> , PhD <i>Liv.</i>	Asst. Prof.

**Political Science**

Morgan, M. O., MA <i>Dal. &amp; Oxon.</i>	Prof.
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**Psychology**

Sullivan, A., BA <i>Oxon.</i> , MA <i>Dal.</i> , BA(Ed)	
	Asst. Prof.

**Sociology**

Whitaker, I. R., MA <i>Camb.</i> , DrPhil <i>Oslo</i> , FRAI	Assoc. Prof.
Krohn, R. G., BA <i>St.Olaf</i> , MA <i>Minn.</i>	
	Asst. Prof.

**Spanish**, see Mod. Langs.

**EXTENSION (EXTRA-MURAL STUDIES)**

Colman, S. J., MA <i>Oxon.</i>	Dir.
Baird, Edna, BA <i>Dal.</i> , BHSc <i>McG.</i>	Assoc. Prof.

**ADMINISTRATIVE AND OTHER STAFF**

Sec. to President : Helen F. Carew. Sec. to  
Registrar : Dorothy E. Pearson, BA *Ott.* Asst.  
to Bursar : Donald C. Barter.

Library Classifier and Cataloguer : Margaret  
Williams, BA.



## AFFILIATED INSTITUTIONS

QUEEN'S COLLEGE, St. John's, Newfoundland. Principal—Rev. G. H. Earle, MA *Durh.* Provides theol. courses for which credit given towards univ. BA.

ST. BRIDE'S COLLEGE, Litledale, St. John's, Newfoundland. Principal—Rev. Sister Mary Basil, BA *Mt.St.Vin.*, MA *C.U.A.*

## GENERAL INFORMATION

The Memorial Univ. of Newfoundland was establd. by an act of the provincial legislature of Newfoundland in 1949.

The Memorial Univ. Coll. had been establd. in 1925 as a war memorial and as an instn. to provide higher educn. for the young people of Newfoundland and Labrador. During the first 10 yrs. the Carnegie Corporation of New York provided annual grants towards general expenses. Thereafter the coll. was supported mainly from public funds. In 1934 a teacher trg. dept. was establd. to provide a yr. of professional trg. for prospective teachers. In 1946 a new plan for the trg. of teachers was introduced, whereby students in educn. combined courses of professional trg. with courses in arts and scis. With the establd. of the univ., teachers may now take a full 4-yr. course leading to the degree of bachelor of arts (educn.).

CONSTITUTION. The univ. consists of the chancellor, convocation, bd. of regents, senate, fac. councils and the facs. The management, admin. and control of the property, revenue, business and affairs of the univ. are vested in the bd. of regents consisting of the chancellor, 2 members elected by convocation and 12 apptd. by the lieut.-governor in council. Academic matters are in general charge of the senate, composed of the chancellor, the pres. (who is chairman), the deputy minister of educn., hds. of the facs. of the univ., 1 rep. apptd. by each coll. or instn. affiliated with the univ., and not more than 6 apptd. or elected under authority of the bd. of regents. Convocation is composed of the chancellor, pres., senate, bd. of regents, all grads. of the Memorial Univ. Coll., all persons holding academic appts. within the univ. whose names are added to the roll of convocation by the registrar from time to time upon instrucs. from the pres., and all grads. of the univ. The functions of convocation are chiefly elective but it may also consider all questions affecting the well-being and prosperity of the univ., and make representations from time to time on such questions to the senate.

INCOME (1958-59). Total income, \$915,678 (federal and provincial govts., 80.34 per cent.; students' fees, 12.48 per cent.; endowment, 1.67 per cent.; sponsored or assisted res., .43 per cent.; misc., 5.08 per cent.).

FACULTIES AND DEANS. See p. 226.

UNIVERSITY PRECINCT. The present univ. bldgs. occupy a commanding position on the old Parade Ground in St. John's, looking out towards the Southside Hills and the Narrows. A new

campus site has been acquired and plans for new bldgs. there approved (construcn. began in June 1959).

LIBRARY. 52,943 vols.; 735 serial publicns. and periodicals subscribed to; Carnegie art rep. set, 2000 prints; Carnegie music set, 700 gram. records. Full depository library for Canadian govt. publicns.

LABORATORIES. Biol., chem., engin., geol., phys., speech.

ADMISSION. See Appendix II.

FIRST DEGREES. 4 yrs.—BA, BA (hons.) (at present, hons. degrees given in, as major subjs., classics, econ., Engl., hist., maths., mod. langs.), BA(Ed), BSc, BSc (hons.) (at present, hons. degrees given in, as major subjs., biol., chem., phys.). 5 yrs.—BCom, BCom hons., conjoint degrees of BEd & BA or BEd & BSc.

HIGHER DEGREES. 2 yrs. from bachelor's degree—MA, MSc. At present, instrcn. for master's degrees given in depts. of biol., chem., Engl., geol., hist., phys.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. 3 yrs.—engin., pre-agric., pre-med., pre-dent.; 2 yrs.—for. Students who complete dipl. courses in engin., med. or for. may proceed to other univs. to complete a degree course. 1 yr.—grad. dipl. in educn. for holders of BA or BSc.

CERTIFICATE. 2 yrs.—phys. educn.

FEES. For full course (degree, dipl. or cert.), \$170-\$190 p.a.

ACADEMIC YEAR. Two semesters: Sept.—Jan., Jan.—May.

EXTENSION (see also 'Teaching Staff', above). A dept. of extension (extra-mural studies) has recently been establd. It will provide extension courses, residential courses, and assist in community development.

SUMMER SESSION. Credit towards BA(Ed) given in 6-wk. summer session held in July and Aug.; 2nd & 3rd yr. courses offered in academic subjs. and professl. subjs. for teachers.

MILITARY TRAINING. Univ. naval trg. div.; Canadian officers trg. corps; Royal Canadian air force (univ. reserve trg. plan).

STUDENT HEALTH. Annual X-ray for all

students; 2 hours of phys. educn. per wk. for 1st yr. students.

**STUDENTS' UNION.** Non-academic student affairs controlled by council of union, which promotes interests and general welfare of students,

finances all student activities, and acts as liaison between student body and univ. admin.

**PUBLICATIONS.** *Calendar* (annual); students: *Cap and Gown* (yearbook), *The Muse* (fortnightly newspaper).

## THE YEAR 1959

**RESIGNATIONS.** O. Biberstein (maths.); J. C. Dearden (chem.); W. P. R. D. Drysdale (Engl.); W. F. Forbes (chem.); C. J. Jaenen (hist.); Monnie G. Mansfield (registrar); R. Ortman (biol.); H. Senior (hist.); D. E. Willmot (sociol.); D. M. Young (hist.).

*sci.*, 264; *educn.*, 616; *engin.*, 121; *for.*, 9; *pre-med.*, 55; *postgraduates*, 15; *partials*, 104. Total: 1184.

*Included in the figures above are :—*

Postgraduate students, 15.

New admissions, 543.

Students from other countries, 4.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	693	38
Women . . .	387	66

Total . . . 1080 . . . 104

Distribution by Faculties, etc. *Arts, comm. &*

**DEGREES AWARDED (1958-59).** *Arts*: BA hons., 3; BA, 15; MA, 3. *Comm.*: BCom, 1. *Educn.*: BA(Ed), 46. *Sci.*: BSc, 18; MSc, 1.

**DIPLOMAS AWARDED (1958-59).** *Educn.*, 2; *engin.*, 14; *household sci.*, 1; *pre-med.*, 6; *pre-dent.*, 1.

**CERTIFICATES AWARDED (1958-59).** *Phys. educn.*, 4.

# UNIVERSITY OF MONTREAL\*

Founded 1876

Postal Address : P.O. Box 6128, Montreal 3, Canada  
Cables and Telegrams : University of Montreal, Canada  
Telephone : Montreal, RE. 3-9951

CHANCELLOR—H.Em. PAUL-ÉMILE CARDINAL LÉGER, LTh DCL

RECTOR—Rt. Rev. Mgr. I. LUSSIER, Hon. LL.D Bishop's, *Alta.*, *McG.*, *Br.Col.* & *Tor.*, LTh LPh *Paris*

VICE-RECTOR—Rt. Rev. Mgr. G. DENIGER, BTh

SECRETARY GENERAL—M. JARRY, LLL

FACULTIES AND DEANS ARTS—Rev. G. PERRAS ; DENTISTRY—P. GEOFFRION, DDS, FACD (Orthodontics) ; HYGIENE—A. FRAPPIER, MD LSc, FRSCan ; LAW—Hon. B. BISSENETTE, LL.D (Civil Procedure) ; LETTERS—Canon A. SIDELEAU, LèsL *Paris* (French) ; MEDICINE—W. BONIN, MD (Histol. & Embryol.) ; MUSIC—Rev. C. MORIN, DTh Lès *Rome* ; PHARMACY—R. LAROSE, LPhm ; PHILOSOPHY—T.R.P. L. LACHANCE, SThM *Le Saulchoir*, DPh ; PURE SCIENCE—P. DANSEREAU, DSc *Geneva*, Hon. DSc *New Br.*, Hon. LL.D *Sask.*, BScA, FRSCan (Bot.) ; SOCIAL SCIENCES, ECONOMICS AND POLITICAL SCIENCE—P. GARIGUE, BSc(Econ) PhD *Lond.* (Soc. & Pol. Sci.) ; THEOLOGY—Rev. F. PARADIS, DTh

TREASURER—L. CASAUBON

DIRECTOR OF EXTENSION DEPARTMENT—L. LORTIE, DScPhys *Paris*, Hon. DSc *Ott.* & *Caen*, LScChim, FRSCan

DIRECTOR OF PUBLIC RELATIONS—A. BACHAND, MS *Col.*, LSCom LLL

LIBRARIAN—J. R. LEDUC, BLS *McG.*

## TEACHING STAFF

### Anatomy (normal)

Blais, M., MD	Prof., Dir. of Dept.
Gagnon, R., MD PhD	Assoc. Prof.
Venne, L., MD	Asst. Prof.

### Anatomy (pathological)

Riopelle, J.-L., MD	Prof.
Sirnard, L. C., MD, FRSCan	Prof.
Berdnikoff, G., MD	Asst. Prof.
Gagnon, J. A., MD	Asst. Prof.
Gareau, R., MD	Asst. Prof.
Jasmin, G., MD PhD	Asst. Prof.
Lauzé, S., MD	Asst. Prof.
Martin, P., MD	Asst. Prof.
Thériault, J.-P., MD	Asst. Prof.

### Literatures

de Groot, J., DIett <i>Utrecht</i>	Prof., Dir.
Lortie, Abbé P., DU <i>Paris</i> , MA	Asst. Prof.

**Applied Science**, see Affiliated Instns., below

### Art, History of

Randall, L. V.	Asst. Prof.
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**Audiology**, see Sch. of Rehabilitation (p. 240)

### Biology

Pagé, E., MBE, PhD <i>Corn.</i> , BScA, FRSCan	Prof., Dir. of Dept.
Prat, H., DSc <i>Paris</i> , LScPhys LScChim	Prof.
LScNat Hon. DSc	Prof.
Cailloux, M., LSc	Assoc. Prof.
Demers, J.-M., DSc <i>Laval</i> , LScA	Assoc. Prof.
Pirlot, P., LPhL LScZool <i>Louvain</i> , PhD DSc <i>Lond.</i>	Assoc. Prof.
Isler, H. G., IngChim DSc <i>Geneva</i>	Assoc. Prof.
Prévost, G., LScChim DSc	Assoc. Prof.
Robert, Rev. A., LScNat LPéd DSc	Assoc. Prof.
Carrière, Rita, PhD <i>McG.</i> , BSc	Asst. Prof.
Couillard, P., BSc <i>Laval</i> , PhD <i>Penn.</i>	Asst. Prof.
Mosimann, J. E., PhD <i>Mich.</i>	Asst. Prof.
Legendre, V., LScChim LScNat MSc	Lectr.
Jolicoeur, P., BSc MA <i>Br.Col.</i>	Lectr.

### Botany

Dansereau, F. DSc <i>Geneva</i> , Hon. DSc <i>New Br.</i> Hon. LL.D <i>Sask.</i> , BScA, FRSCan	Prof.
Brunel, J., LScNat	Prof.
Gauthier, R., MSc <i>Corn.</i> , LScNat DSc	Prof.

\* Member of the Association of Universities of the British Commonwealth

Rouleau, E., LScNat MSc PhD Prof.  
 Beaudry, J.-R., MSc McG., PhD Wis.,  
 LScA Assoc. Prof.

### Canadian Literature

Sideleau, Canon A., LèsL Paris Prof.

### Chemistry, see also Affiliated Instns., below

Favre, H., DScTech Zur. Prof., Dir. of Dept.  
 Lemay, L., BA MSc Prof.  
 Lortie, L., DScPhys Paris, Hon. DSc Ott. &  
 Caen, LScChim, FRSCan Prof.  
 Rinfret, M., LScPhys, FCIC Prof.  
 Sandorfy, C., DSc Paris, LSc Szeged,  
 PhD, FCIC Prof.  
 Piché, L., LScChim PhD, FCIC  
 Prof., Vice-Dean, Dir. of Studies  
 Barré, R., DScPhys Paris, BPharm LScChim  
 Prof.  
 Cartier, P., LScChim Assoc. Prof.  
 Heumann, W., DSc Prague Assoc. Prof.  
 Rivest, R., BScChim DSc Assoc. Prof.  
 Bourgon, M., LScChim PhD Assoc. Prof.  
 Daoust, H., BScChim PhD Assoc. Prof.  
 Berse, C., DSc Zur. Asst. Prof.  
 Patterson, D., MSc McG., BScMath  
 BScPhys Asst. Prof.  
 Sicotte, Y., BA BScChim PhD Asst. Prof.  
 Richer, J. C., BScChim PhD  
 Goudreau, R., LScChim Lectr.

### Classics

de Groot, J., DLett Utrecht  
 Prof., Dir. of Section

### Commerce, see Affiliated Instns., below

### Dentistry, see below

### Economics, see Soc. and Pol. Sci.

### Engineering, see Affiliated Instns., below

### English Language and Literature

Greenwood, T., MA Lond., LèsL Paris,  
 DSc Ott., DLett Prof., Dir. of Section  
 Birch, T.-A., MA Leeds, DPéd Asst. Prof.  
 De Groot, H., MA Asst. Prof.  
 Hanna, B. T., MA Asst. Prof.  
 MacPeak, Hélène, BA Asst. Prof.  
 McCracken, E.-J., MA McG., PhD Asst. Prof.  
 Murphy, J.-A., MA PhD Asst. Prof.

### French Language and Literature

Sideleau, Canon A., LèsL Paris Prof.  
 Houpert, J., MA Ill., DLett  
 Dir., French Summer Sch., Prof.  
 Angers, Rev. P., DèSL Louvain, LLett\*  
 Assoc. Prof.  
 Gagnon, Rev. E., LLett Assoc. Prof.

Hollier, R., LèsL Paris Asst. Prof.  
 Maheu, Br. M. G., MA Laval, DèSL Lille  
 Asst. Prof.

### Geography

Dagenais, P., LScCom LèsL Paris,  
 DUGrenoble Prof., Dir. of Section  
 Brouillette, B., DUParis, LScCom Assoc. Prof.  
 Garry, R., LLL Dipl'd'ÉtSup Paris Assoc. Prof.  
 Bélanger, M., DUGrenoble, LLett Asst. Prof.  
 Chouinard, B. Asst. Prof.  
 Laverdière, C., MA Asst. Prof.

### Geology, see also Affiliated Instns., below

Tiphane, M., BScA Laval, MSc McG.  
 Assoc. Prof.  
 Carbonneau, C., PhD McG. Lectr.

### German, see Mod. Langs.

### History

Brunet, M., PhD Clark, BEd LScSoc  
 MA Assoc. Prof.  
 Papillon, Rev. A., DTh Pontif. Athen.  
 Angelicum, DipArchiv Greg. Assoc. Prof.  
 Séguin, M., DLett Assoc. Prof.

### Hungarian, see Slavic Studies

### Hygiene, School of

Frappier, A., MD LSc, FRSCan Prof.  
 Charbonneau, Gabrielle, BA MSc Prof.  
 Charbonneau, J.-H., BA MD Prof.  
 Foley, A.-R., DPH Johns H., BL MD Prof.  
 Gilbert, J., DPH Johns H., MD Prof.  
 Groulx, A., MPH Johns H., MD Prof.  
 Lafrenière, T.-J., BScA MSc IC Prof.  
 La Salle, G., DPH Tor., MD Prof.  
 Panisset, M., BA Hon. DMV Prof.  
 Plante, L., MPH Yale, LPéd LScS MA Prof.  
 Sylvestre, J.-E., BSc MD DIIP Prof.  
 Tourangeau, F.-J., BA MD DHP Prof.  
 Valois, A.-B., BA MD MPH Johns H. Prof.  
 Archambault, J., BA DScA IC Assoc. Prof.  
 Beaupré, B., BA BScA MASc MSc IP  
 Assoc. Prof.  
 Borduas, M. A., DSc Assoc. Prof.  
 Charest, G., MD MPH Johns H. Assoc. Prof.  
 Cyr, R., BA BScA IC Assoc. Prof.  
 Forté, L., BPharm MSc Assoc. Prof.  
 Genest, P., DMV DScNat Assoc. Prof.  
 Girard, Alice, BSc MA Assoc. Prof.  
 Landreville, A., BA MD MPH Johns H.  
 Assoc. Prof.  
 Marcotte, J.-E.-A., MD Assoc. Prof.  
 Pavlanis, V., MD Kaunas Assoc. Prof.  
 Jeanne-Mance, Rev. Sr., DPH Tor. MA  
 Assoc. Prof.  
 Boutin, J.-R., BA MD Asst. Prof.  
 Dorais, L., BA BPh LPs Asst. Prof.

### Italian, see Mod. Langs.

### Law, see below

**Linguistics, Phonetics and Translation**

Vinay, J.-P., *LèsI. Paris*, MA *Lond.*,  
 FRSCan Prof., Dir. of Section  
 Charbonneau, Abbé R., *Dipl Inst.dePhon.*,  
*Paris* Asst. Prof.  
 Francœur, Andrée, MA Asst. Prof.  
 Hanna, B. T., MA Asst. Prof.  
 Lefebvre, G., MA PhD Asst. Prof.

**Mathematics**

Gauthier, A., MA *Col.*, LScPhys LScMath Prof.  
 L'Abbé, M., MA PhD *Prin.*, LScMath  
 Prof., Dir. of Dept.  
 Saint-Pierre, J., PhD *N.Carolina*, LScPhys  
 LScMath MSc Prof.  
 Brossard, R., LScMath MSc Assoc. Prof.  
 Fox, G., MA *Br.Col.*, PhD *McG.* Assoc. Prof.  
 Maranda, J., MA *Tor.*, PhD *McG.*,  
 BScMath Assoc. Prof.  
 Thierrin, G., DSc *Frib. & Paris*, LSc  
 Assoc. Prof.  
 Daigneault, A., MSc PhD *Prin.*,  
 BScMath Asst. Prof.  
 Guy, R., LScMath *Geneva*, DSc *Paris*  
 Asst. Prof.  
 Lachapelle, B., BA BScMath Asst. Prof.  
 LeBlanc, L., PhD *Chic.*, BScMath  
 MSc Asst. Prof.  
 Zinger, A., BScMath PhD Asst. Prof.  
 Robert, P., BA Asst. Prof.  
 Munier, F., LScMath Lectr.

**Medicine, see below****Mineralogy, see Geol., and Affiliated  
Instns., below****Modern Languages (German, Spanish and  
Italian)**

de Groot, J., DLett *Utrecht* Prof.  
 Carderera, A., I.I.L. *Madrid* Prof.  
 Valentino, A., DLett *Perugia* Assoc. Prof.  
 Roussow, G., DrPhil *Vienna* Asst. Prof.

**Music, see also Attached Instns., below****Profs. and Asst. Profs.**

Aubut, Françoise  
 Cusson, G.  
 Desautels, Andrée  
 Graton, F.  
 Laurencelle, M.  
 Leclerc, H.  
 Lennsens-Heynin, Ria  
 Letendre, C.  
 Morin, Rev. C. Prof.  
 Papillon, Rev. A.  
 Papineau-Couture, J.  
 Renshaw, Rosette  
 Rochefort, E.  
 Vallerand, J.

**Orthophonics, see Sch. of Rehabilitation  
(p. 240)****Pathology, see Anat. (pathol.)****Pharmacology, see Medicine, below****Pharmacy**

Larose, A.-F., DPhm Prof.  
 Barré, R., BPhm DSc Prof.  
 Labarre, J., BPhm DSc Prof.  
 Martin, E.-A., LPhm DSc Prof.  
 Larose, R., BPhm LPhm Assoc. Prof.  
 Plourde, R., MPhm Assoc. Prof.  
 Riopel, P., MPhm MSc Assoc. Prof.  
 Archambault, A., DPhm *Paris*, BPhm Asst. Prof.  
 Bergeron, L., BPhm Asst. Prof.  
 Coderre, E., LPhm Asst. Prof.  
 Geoffrion, B. Asst. Prof.  
 Lafontaine, C., BPhm *Paris & Montr.*,  
 LPhm Asst. Prof.  
 Latour, R., DPhm *Paris*, BPhm Asst. Prof.  
 Lord, R., BPhm LPhm Asst. Prof.  
 Martel, H., BPhm LPhm Asst. Prof.  
 Mockle, J. A., DPhm *Paris*, BPhm Asst. Prof.  
 Salvador, R., DPhm *Purdue*, MPhm Asst. Prof.

**Philosophy, see below****Phonetics, see Linguistics****Physical and Occupational Therapy, see  
Sch. of Rehabilitation (p. 240)****Physics**

Lorrain, P., BSc PhD *McG.* Prof., Dir. of Dept.  
 Demers, P., DScPhys *Paris*, LScMath&Phys  
 MSc, FRSCan Prof.  
 Bélair, R., LScChim&Phys MSc Assoc. Prof.  
 Labonté, Rev. G., LScPhys LTh LPh  
 MSc Assoc. Prof.  
 Böse, A., MSc *Calc.*, DrRerNat *Gött.* Asst. Prof.  
 Lapointe, S., BScPhys MSc *Corn.*, PhD  
 Asst. Prof.  
 Levesque, J. R., BSc *SirG.Wms.*,  
 PhD *Northwestern* Asst. Prof.  
 Paquette, G., MA PhD *Br.Col.*, BScPhys  
 Asst. Prof.  
 Reeves, H., BScPhys MSc *McG.*,  
 PhD *Corn.* Asst. Prof.

**Physiology, see Medicine, below****Polish, see Slavic Studies****Russian, see Slavic Studies****Slavic Studies**

Domaradzki, T.-F., LPh DipScPol *Warsaw*,  
 DLett *Rome* Prof., Dir.  
 Zaleski, Abbé M., PhD *Warsaw* Assoc. Prof.  
 Pletnev, R., DLett *Prague* Assoc. Prof.  
 Kirschbaum, J., I.I.D. *Bratislava*, MA  
 Asst. Prof.  
 Kurlents, A., LLett *Tartu* Asst. Prof.  
 Lalich, V., MA PhD Asst. Prof.

Radwanski, P., LPh DSc *Cracow*  
 Koussow, G., PhD *Vienna*  
 Rowicki, C., LLett *Prague*  
 Skvor, G., LLD *Prague*  
 Stauber, J., MA  
 Walter, E., DScP *Bud.*  
 Arseniev, N.

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Guest Lectr.

Lazure, D., MD  
 Lemieux, R., MD  
 Lukosevicius, Irena, MSS  
 Madeleine-Thérèse, Sr., LPéd MSS  
 Mailhiot, C., DPs  
 Paré, Simone, LScSoc *Laval*,  
 MSc(Groupwork) *Pitt.*  
 Riendeau, Rev. R., MSS  
 Royer, A., MD  
 Sainte-Marie, J., LScCom

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Social and Political Science and Economics

Rocher, G., MA *Laval*, PhD *Harv.* Prof.  
 Gangué, P., BSc(Econ) PhD *Lond.* Prof.  
 Guillemette, Rev. A. M., LLL *Laval*, LTh  
 LSP *Louvain* Prof.  
 Brizard, L. P., MA Assoc. Prof.  
 Cardin, R., MRI Assoc. Prof.  
 Govenlock, Abbé S., MSSW *C.U.A.*,  
 LTh Assoc. Prof.  
 Lacoste, Abbé N., LTh LScPol *Louvain*

Assoc. Prof.  
 Mathieu, Marguerite, BSW *McG.* Assoc. Prof.  
 Raynaud, A., DScEcon *Paris*, MRI Assoc. Prof.  
 Henripin, J., DScEcon *Paris* Assoc. Prof.  
 Szabo, D., DScPol&Soc *Louvain*,  
 Dipl'ÉtSup *Paris* Assoc. Prof.  
 Zav, N., LLD LScPol *Bud.*, MSS Assoc. Prof.  
 Thur, O., BA *Bud.*, LScCom LScPol  
*Louvain* Assoc. Prof.

Beausoleil, G., MA *Laval* Asst. Prof.  
 Benoist, J., MD LSc *Lyons*, DiplEth *Paris*  
 Asst. Prof.  
 Bouchard, M., DScEcon *Louvain* Asst. Prof.  
 Breton, A., BA *Manit.* Asst. Prof.  
 Buxton, R., BA *Manit.* Asst. Prof.  
 Fournier, L., MRI Asst. Prof.  
 Guindon, H., LPh MA *Ott.* Asst. Prof.  
 Lalonde, Marguerite, MS *N.Y.*, DipSS *McG.*

Asst. Prof.  
 Lucier, J., MRI Asst. Prof.  
 Havel, J. E., LicDroit DU DiplÉtPol *Paris*

Asst. Prof.  
 Marion, G., MA(RI) Asst. Prof.  
 Patry, A., BA LScPol *Laval* Asst. Prof.  
 Thomson, D. C., BA *Alta.*, DiplÉtPol  
 DcsL *Paris* Asst. Prof.

Thur, Mrs. O., BA *Bud.*, LLD  
 LScPol&Dipl *Louvain* Asst. Prof.  
 Tremblay, L. M., MScS(RI) *Laval* Asst. Prof.  
 Bourassa, G., BPh LScPol *Laval*,  
 DScPol *Paris* Asst. Prof.

Dagenais, M., MA(Econ) PhD *Yale* Asst. Prof.  
 Trouwborst, A., I.Anthrop DAnthrop *Jey.*

Asst. Prof.  
 Rousseau, Claire, BA MSS Asst. Prof.  
 Vanier, N., MSS Asst. Prof.

Angers, F. A., DiplScPol *Paris*, LScCom Lectr.  
 Bédard, G. Lectr.  
 Blanchard, Y., DPh Lectr.  
 Bolduc, R., LLL *Laval* Lectr.  
 Boisvert, A., BPh LPh(Psychol) Lectr.  
 Desloges, Y., LLL Lectr.  
 Geoffroy, J.-P., LLL Lectr.  
 Jolicœur, F., MScSoc *Laval* Lectr.

Lafontaine, Rev. J. M., LScÉc&Pol *Lille*,  
 LTh Lectr.

**Spanish**, see Mod. Langs.

**Theology**, see below

**Translation**, see Linguistics

**Ukrainian**, see Slavic Studies

### DENTISTRY

#### Anæsthetics

Clermont, M., MD, FRCP Assoc. Prof.  
 Raymond, A., DDS Assoc. Prof.  
 Coulombe, L., MD Lectr.

#### Crown and Bridge Prosthesis

Robichaud, H.-M., DDS Prof.  
 Trottier, J.-P., DDS MScDent Prof.

#### Dental Anatomy

Gauthier, G., DDS, FACD Prof.  
 Bussièrès, J., DDS Assoc. Prof.

#### Dental Hygiene

Bouillon, J. C., DDS MPH Asst. Prof.

#### Dental Jurisprudence

Mayrand, A., LLL LSP Prof.

#### Dental Metallurgy

Patenaude, C., DDS Assoc. Prof.

#### Dental Pathology

Mezl, I., MD DDS Assoc. Prof.

#### Dental Prosthesis

Nadeau, J., DDS Prof.  
 Patenaude, C., DDS Assoc. Prof.

#### Dental Surgery

Demontigny, G., DDS MScDent, FACD Prof.  
 Raymond, A., DDS Assoc. Prof.  
 Genest, A., MD DDS Asst. Prof.

#### Diagnosis and Radiology

Fontaine, J. N., DDS Assoc. Prof.  
 Donohue, W. B., DDS Asst. Prof.

**Endodontics**, see Operative Dent.

**Ethics**

Archambault, C., DDS MSc Assoc. Prof.

Taschereau, L. P., LLL

Asst. Prof.

Beaulieu, R., BCL

Asst. Prof.

Laprade, L., LLL

Asst. Prof.

**History of Dental Surgery**

Fortier, A., DDS Assoc. Prof.

**Criminal Law**

Lagarde, Judge I., LL.D

Prof.

**Materia Medica**

Silbert, H., DDS Asst. Prof.

**Economics**Carignan, P., MA *Harv.*, LLL Assoc. Prof.Lalonde, M., MA *Oxon.*, LLL MADroit

Asst. Prof.

**Operative Dentistry and Endodontics**

Deschênes, G.-H., DDS Prof.

Yergeau, J., DDS Assoc. Prof.

Silbert, H., DDS Asst. Prof.

Le Balle, Y., LLL DèEcon *Paris***Orthodontics**

Gcoffrion, P., DDS, FACD Prof.

Baril, C., DDS Asst. Prof.

**Fiscal Legislation**

Cardinal, J. G., LL.D Assoc. Prof.

Gélinas, C., LLL Asst. Prof.

Lemay, H.-P., LLB LScCom LSP Asst. Prof.

**Pedodontics**

Perreault, G., DDS Asst. Prof.

**History of Law**Morel, A., LL.D *Paris*, LL.M MA Asst. Prof.**Periodontics**

Pelletier, G., DDS Asst. Prof.

**Industrial Legislation**

Montpetit, Hon. A., LLL Assoc. Prof.

**Physiology**

Lussier, J. P., DDS PhD, FACD Assoc. Prof.

**Insurance**

Mercier, F., LLL Assoc. Prof.

**LAW****Accounting**

Girard, R., LSc Lectr.

**International Law**Morin, J.-Y., LL.M *S.Methodist*,  
DiplInternatLaw *Camb.*, MA Asst. Prof.**Administrative and Constitutional Law**Beetz, J., MA *Oxon.*, LL.L Assoc. Prof.Hurtubise, R., BA *Oxon.*, LL.L**International Private Law**De Bottini, R., LL.D *Paris* Asst. Prof.**Air Law**Mateesco, N., LL.D *Paris* Asst. Prof.**Introduction and Philosophy of Law**

Caron, M., LL.D Prof., Dir. of Studies

**Civil Law**

Brossard, Judge A., LL.L Prof.

Caron, M., LL.D Prof.

Mayrand, A., LL.L LSP Prof.

Comtois, R., LLL Prof.

Martineau, P., LLL Assoc. Prof.

Lefebvre, D., LL.D *Paris* Asst. Prof.

Primeau, R., BScA LLL Asst. Prof.

De Bottini, R., LL.D *Paris* Asst. Prof.

Lippé, Justice R., LL.L Lectr.

**Medical Jurisprudence**

Roussel, J. M., MD Lectr.

**Municipal Law**

Comtois, R., LLL Prof.

**Notarial Procedure**

Comtois, R., LL.L Prof.

Cardinal, J. G., LL.D Assoc. Prof.

**Civil Procedure**

Bissonnette, Hon. B., LL.D Prof.

Ferland, P., LL.D Assoc. Prof.

Perreault, C., LL.D Assoc. Prof.

Taschereau, L. P., LL.L Asst. Prof.

Tremblay, L., LL.D Asst. Prof.

Guérin, G., LL.L Asst. Prof.

**Parish Law**

Cardinal, J. G., LL.D Assoc. Prof.

**Professional Ethics**Cousineau, Rev. J., LTh DPH LScSoc  
DiplScPol Lectr.**Commercial Law**Lalonde, M., MA *Oxon.*, LLL MADroit

Asst. Prof.

**Roman Law**Morel, A., LL.D *Paris*, LL.L MA Asst. Prof.

**School Law**

Comtois, R., LLL

**MEDICINE**(for subjects of the first 2 yrs.—Anat., etc.,  
see above)**Anæsthesia**

Longtin, L., MD	Prof.
Brunet, J.-L., MD	Asst. Prof.
Cousineau, G., MD	Asst. Prof.
Dubéau, M., MD	Asst. Prof.
Fortin, G., MD	Asst. Prof.
Gagnon, R., MD	Asst. Prof.
Lamoureux, L., MD	Asst. Prof.
Laporte, J., MD	Asst. Prof.
Legault, L., MD	Asst. Prof.
Marsolais, A., MD	Asst. Prof.
Mignault, G., MD	Asst. Prof.

**Bacteriology**

Frappier, A., MD LSc, FRSCan	Prof.
Fredette, V., BPharm DSc	Assoc. Prof.
Sonea, S., MD	Assoc. Prof.
Dionne, P., MD	Asst. Prof.
Leduc, A., MD	Asst. Prof.
Martineau, B., MD	Asst. Prof.
Nogradv, G., MD	Asst. Prof.
Sant-Martin, M., MD	Asst. Prof.

**Biochemistry**

Bouthillier, L. P., MSc PhD	Prof.
Gagnon, A., MD LSc	Prof.
Bouziane, N., MD MSc PhD	Assoc. Prof.
Gosselin, G., MD MSc	Assoc. Prof.
Bourgault, J. M., MD	Asst. Prof.
Gianetto, R., PhD	Asst. Prof.
Lachance, J. P., DSc	

**Dermatology**

Poirier, P., MD	Prof.
Leclerc, G., MD	Assoc. Prof.
Blais, R., MD	Asst. Prof.
Forsy, J.-P., MD	Asst. Prof.
Lambert, A., MD	Asst. Prof.
Panaccio, V., MD	Asst. Prof.
Turgeon, P., MD	Asst. Prof.

**Endocrinology and Experimental  
Medicine and Surgery**

Selye, H., MD PhD <i>Prague</i> , DSc <i>McG.</i> , FAAAS, FRSCan	Prof.
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**Gynæcology**

Meunier, P., MD	Prof.
Magnan, A., MD	Assoc. Prof.
Simard, Raymond, MD	Assoc. Prof.
Gauthier, J., MD	Asst. Prof.
Lapointe, R., MD	Asst. Prof.
Ouimet, C., MD	Asst. Prof.
Simard, Roland, MD	Asst. Prof.

**Histology and Embryology**

Prof.	Bonin, W., MD	Prof., Dir. of Dept.
	Frappier, J., MD LSc	Prof.
	Poirier, L., MSc PhD <i>Mich.</i> , MD	Prof.
	Bélanger, Y., MD	Asst. Prof.
	Burton, L., MD	Asst. Prof.
	Lemire, A., MD	Asst. Prof.
	Remillard, G., MD MSc PhD	Asst. Prof.
	Richer, C. Lise, MD MSc	Asst. Prof.

**History of Medicine**

Dumas, P., MD	Assoc. Prof.
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**Legal Medicine and Toxicology**

Roussel, J.-M., MD	Prof.
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**Materia Medica**

Dufresne, R., MD	Prof.
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**Medical Ethics**

Marcotte, Rev. M.	Lectr.
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**Medicine**

Beauregard, J. M., MD LSc	Prof.
Boucher, R., MD	Prof.
Dufresne, R., MD	Prof.
Dussault, R., MD	Prof.
Grignon, C. E., MD	Prof.
Letendre, P., MD	Prof.
Prévost, J., MD	Prof.
Robert, P., MD	Prof.
Baillargeon, B., MD	Assoc. Prof.
Bernier, J., MD	Assoc. Prof.
Blais, J.-A., MD	Assoc. Prof.
Chaput, Y., MD	Assoc. Prof.
David, P., MD	Assoc. Prof.
Dumas, P., MD	Assoc. Prof.
Fortier, L., MD	Assoc. Prof.
Genest, J., MD	Assoc. Prof.
Gratton, A., MD	Assoc. Prof.
Grignon, J., MD	Assoc. Prof.
Hébert, G., MD	Assoc. Prof.
Julien, P.-P., MD	Assoc. Prof.
Lefebvre, R., MD	Assoc. Prof.
Léger, J., MD	Assoc. Prof.
Long, L., MD	Assoc. Prof.
Morissette, L., MD	Assoc. Prof.
Robillard, R., MD	Assoc. Prof.
Adamkiewicz, Lydia, MD	Asst. Prof.
Bélisle, M., MD	Asst. Prof.
Brais, P., MD	Asst. Prof.
Casgrain, G., MD	Asst. Prof.
Charbonneau, R., MD	Asst. Prof.
Cléroux, A., MD	Asst. Prof.
Coutu, L., MD	Asst. Prof.
Demers, R., MD	Asst. Prof.
Derome, L., MD	Asst. Prof.
Domingue, C., MD	Asst. Prof.
Dontigny, P., MD	Asst. Prof.
Duquette, J., MD	Asst. Prof.
Durivage, J., MD	Asst. Prof.
Fournier, G., MD	Asst. Prof.
Gialloretto, O., MD	Asst. Prof.



Gilbert, Ghislaine, MD  
 Gosselin, G., MD  
 Gratton, J., MD  
 Grégoire, F., MD  
 Johnson, R., MD  
 Joncas, F., MD  
 Kakos, A., MD  
 Lachaine, G., MD  
 Lanthier, A., MD  
 Laramée, F., MD  
 Lebel, L., MD  
 Leduc, G., MD  
 Leduc, P. E., MD  
 Lemieux, G., MD  
 Lessard, J.-M., MD  
 Mackay, A., MD  
 Manscau, O., MD  
 Marion, P., MD  
 Mathieu, J., MD  
 Mignault, J., MD  
 Piette, Y., MD  
 Prévost, G., MD  
 Proulx, A., MD  
 Prud'homme, J., MD  
 Séguin, F., MD  
 Tremblay, J., MD  
 Vaillancourt, De G., MD

### Neurology

Saucier, J., MD  
 Amyot, R., MD  
 Desrochers, J.-L., MD  
 Courtois, G., MD

### Obstetrics

Marion, D., MD  
 Bélanger, G., MD  
 Ferron, M., MD  
 Fortier, J., MD  
 Gagnier, M., MD  
 Le Roy, A., MD  
 Tétrault, J., MD  
 Attendu, C.-A., MD  
 Bachand, M., MD  
 Boileau, P.-A., MD  
 Desrosiers, L., MD  
 Ducharme, G., MD  
 Gagnon, J., MD  
 Gibeault, H., MD  
 L'Archevêque, M., MD  
 Sansregret, E., MD  
 Vadeboncoeur, R., MD

### Ophthalmology

Blain, E., MD  
 Cloutier, R., MD  
 Henry, F., MD  
 Charbonneau, R., MD  
 Pellerin, R., MD  
 Perron, L., MD

### Oto-Rhino-Laryngology

Montreuil, F., MD

Asst. Prof. Berthiaume, C. A., MD  
 Asst. Prof. Blais, R., MD  
 Asst. Prof. Brunelle, P., MD  
 Asst. Prof. Dubuc, H., MD  
 Asst. Prof. Guertin, P., MD  
 Asst. Prof. Huot, L., MD  
 Asst. Prof. Latraverse, V., MD  
 Asst. Prof. Legrand, H., MD  
 Asst. Prof. Marchand, L., MD

### Pædiatrics

Asst. Prof. Charbonneau, H., MD  
 Asst. Prof. Guilbeault, A., MD  
 Asst. Prof. Bombardier, J.-P., MD  
 Asst. Prof. Labrecque, R., MD  
 Asst. Prof. Roy, A., MD  
 Asst. Prof. Archambault, R., MD  
 Asst. Prof. Baril, E., MD  
 Asst. Prof. Brodeur, P., MD  
 Asst. Prof. Dagenais-Pérusse, P., MD  
 Asst. Prof. Duplessis, J., MD  
 Asst. Prof. Gauthier, L.-J., MD  
 Asst. Prof. Huard, G., MD  
 Asst. Prof. Jolivet, G., MD  
 Asst. Prof. Laberge, E., MD  
 Asst. Prof. Langevin, P., MD  
 Asst. Prof. Larivière, P.-M., MD  
 Asst. Prof. Léonard, C., MD  
 Asst. Prof. Léveillé, A., MD  
 Asst. Prof. Major, W., MD  
 Asst. Prof. Martel, J.-A., MD  
 Asst. Prof. Paquet, J. A., MD  
 Asst. Prof. Piette, J., MD  
 Asst. Prof. Poirier, R., MD  
 Asst. Prof. St. Laurent, G., MD  
 Asst. Prof. Thibodeau, L.-P., MD  
 Asst. Prof. Trudel, H., MD

Prof.  
 Assoc. Prof.  
 Assoc. Prof.  
 Asst. Prof.

Prof., Dir. of Dept.  
 Prof.

Assoc. Prof.  
 Assoc. Prof.  
 Assoc. Prof.  
 Assoc. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.

### Pharmacology

Beaulne, A., MD  
 Roy, P.-G., PhD

Assoc. Prof.  
 Asst. Prof.

### Phthisiology

Millet, J.-A., MD  
 Paquette, P., MD  
 Pilon, L., MD  
 Jarry, G., MD  
 Laurier, R., MD  
 Verschelden, M., MD

Assoc. Prof.  
 Assoc. Prof.  
 Assoc. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.

### Physical Medicine

Gingras, G., MD  
 Mongeau, M., MD

Prof.  
 Asst. Prof.

### Physiology

Robillard, E., MD  
 D'orio, A., PhD  
 Lussier, J. P., DDS MSc PhD  
 Cordeau, J. P.  
 Adamkiewicz, V., PhD  
 McGraw, J.-Y., MD DSc  
 Rosenberg, Edith E., MD PhD

Prof.  
 Assoc. Prof.  
 Assoc. Prof.  
 Assoc. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.



Giguère, Rev. R.-M., MSD *Pontif. Inst., Tor.*, DipBibl Assoc. Prof.  
 Pilon, Rev. P.-M., SThL *Ott.*, JuiCanLic *Laval* Assoc. Prof.  
 Brault, J., MA MSM Asst. Prof.  
 De Durand, Rev. M., LittL SThL Asst. Prof.  
 Denburg, C., PhD Asst. Prof.  
 Dulude, Rev. H., SThL *Ott.*, LPh Asst. Prof.  
 Harvey, Rev. V., SThL *Ott.*, LPh Asst. Prof.  
 Randall, L. V. Asst. Prof.

### Institute of Psychology

Pinard, Rev. A., SThL DPh(Ps) Prof., Dir. of Inst.  
 Bélanger, D., MA LPs Prof.  
 Mailloux, Rev. N., SThL DPh Prof.  
 Barbeau, G.-L., DP Assoc. Prof.  
 Clerk, Mrs. Gabrielle, DPh(Ps) Assoc. Prof.  
 Décarie, Mrs. Thérèse, LPs Assoc. Prof.  
 Lavoie, G., LPs Assoc. Prof.  
 Lussier, A., LPs Assoc. Prof.  
 Mailhiot, Rev. B., MA *Harv.*, SThL Assoc. Prof.  
 Marcotte, J.-E., MD Assoc. Prof.  
 Salman, Rev. D. H., DPh SThL Assoc. Prof.  
 Dubreuil, G., MA Assoc. Prof.  
 Cardu, B., DP's *Louvain* Assoc. Prof.  
 Auclair, G., PhD *Purdue* Asst. Prof.  
 Cormier, D., DP's *Chic.* Asst. Prof.  
 Laurendeau, Monique, MA Asst. Prof.

### THEOLOGY

Paradis, Rev. F., DTh Prof.  
 Bolté, Rev. P.-E., DTh LScS *Laval* Prof.  
 Desrosiers, Rev. J.-B., DTh DPh *Rome* Prof.  
 Dorris, Rev. R., DTh *Rome* Prof.  
 Fournier, Rev. R., DTh Prof.  
 Lesieur, Rev. R., DTh *Rome* Prof.  
 Morin, Rev. C., DTh LES Prof.  
 Sauvé, Rev. I., DPh *Rome*, LTh Prof.  
 Yelle, Rev. G., DTh *Rome* Prof.  
 Bertrand, G., LTh Asst. Prof.  
 Boucher, Rev. E., DPh LTh Asst. Prof.  
 Bourassa, Rev. F. Asst. Prof.  
 Brabant, Rev. O., LTh Asst. Prof.  
 Brosseau, Rev. R., LTh DPh Asst. Prof.  
 Charron, Rev. Y., DTh Asst. Prof.  
 Cousineau, Rev. A., LTh LES Asst. Prof.  
 Foisy, Rev. L., LTh Asst. Prof.  
 Fortin, Rev. B. Asst. Prof.  
 Gaudet, Rev. R., LTh Asst. Prof.  
 Gauthier, Rev. R., DTh Asst. Prof.  
 Lalande, Rev. G., LChGr Asst. Prof.  
 Ledit, Rev. J., MA DPh Asst. Prof.  
 Léveillé, Rev. P., LTh LPh Asst. Prof.  
 Locas, Rev. C., DPh LTh Asst. Prof.  
 Martucci, Rev. J., LTh LES Asst. Prof.  
 Moore, Rev. R., LTh LPh Asst. Prof.  
 Poisson, Rev. G., LTh LDC Asst. Prof.  
 Raymond, Rev. J., LTh Asst. Prof.  
 Signori, Rev. B., LTh DDC Asst. Prof.

## ADMINISTRATIVE AND OTHER STAFF

Chaplain: Rev. P. Grégoire. Treasury: P. Huot, Asst. Treasurer. Internal Auditor: D. Clairoux. Accounting: R. Beaulne. Main-

tenance of Bldgs.: O. J. Gratton. Purchasing: G. Bourgeois. Students' Association: L. Lemay. Placement: M. Cloutier.

## AFFILIATED INSTITUTIONS

CLASSICAL STUDIES. *See below.*

INSTITUTE OF FAMILY PEDAGOGY AND HOME ECONOMICS, 1410 Mont-Royal Blvd., Outremont, 8 (tel.: Montreal, Crescent 6-2016). Founded 1942. Provides complete courses for BPF of the univ. Directress—Sr. Marie-Théodore-de-la-Croix.

MARGUERITE D'YOUVILLE INSTITUTE (a higher school of nursing), 1185 Saint-Mathieu St., Montreal, 25 (tel.: Montreal, Wellington 5-1182). Founded 1934. Provides complete courses for BScInf of the univ. Directress—Sr. Denise Lefebvre. 42 other Profs. and Assts.

NORMAL SCHOOL FOR SECONDARY TEACHING, 3880 Chemin de la Côte-des-Neiges, Montreal, 25 (tel.: Montreal, Wellington 5-8813). Founded 1941. Provides complete courses for BPéd, LPéd, DPéd of the univ. Dir.—Rev. G. Perras.

PEDAGOGICAL INSTITUTE, 4873 Westmount Ave., Montreal, 6 (tel.: Montreal, Wellington 5-7388). Founded 1926. Provides complete courses for

BPéd, LPéd, DPéd of the univ. Directress—Sr. Sainte-Madeleine du Sacré-Cœur.

POLYTECHNIC SCHOOL, 2500 Guyard St., Montreal, 26 (tel.: Montreal, Regent 9-2451). Founded in 1874. Provides complete courses for BScA, MScA and DScA of the univ. in the following engin. options: chem., civil, electr., geol., mech., metall., mining and phys. engin. Principal—I. Brouillet. Dir.—H. Gaudefroy. 114 Profs., Assoc. Profs., Asst. Profs.

SCHOOL OF OPTOMETRY, 2900 Mont-Royal Blvd., Montreal, 26 (tel.: Montreal, Regent 8-7311). Provides complete courses for LScO of the univ. Dir.—J.-Armand Messier. 29 Profs., Assoc. Profs., Assts. and others.

ST. GEORGE PEDAGOGICAL INSTITUTE FOR MEN, Mont-de-la-Salle, Laval-de-Rapides, 9 (tel.: Montreal, Montcalm 4-3200). Founded 1919. Provides complete courses for BPéd, LPéd, DPéd of the univ. Dir.—R. F. Charles.

**SCHOOL OF HIGHER COMMERCIAL STUDIES**, 535 Viger Ave., Montreal, 24, Que. (tel.: Montreal, Victor 2-3486). Founded in 1907. Provides complete courses for BScCom, LScCom, LSc Comptables, LScAct and DScCom of the univ. Dir.—Prof. E. Minville. 80 Profs., Assoc. Profs., Asst. Profs. and Lectrs.

**VETERINARY SCIENCE**. School of Veterinary Science, Saint-Hyacinthe, Que., about 35 mls. from Montreal (tel.: Saint-Hyacinthe 4-8343). Founded 1886. Provides complete courses for DMV of the univ. Dir.—G. Labelle, DMV. 30 other Profs. and Assts.

### Classical Studies

Each of the 32 colls. for boys and girls listed below is affiliated to the univ. and provides a 4-yr high sch. course followed by a 4-yr. coll. or arts course. The programme for the coll. course is prepared by the univ. The univ. exercises a supervision on the teaching staff and administers the yrlly. exams. during the coll. course. The students who pass successfully the

yrlly. exams. prepared by the fac. of arts are awarded the BA degree by the univ. and may be admitted to grad. (or professional) studies in the univ.

There are also 58 approved instns. which are not yet affiliated, but which offer all or part of the same courses for boys and girls.

### For boys

**COLLÈGE ANDRÉ-GRASSET**, 1000 Grémazie Blvd. East, Montreal, 10. Superior—J. Langis, BèsLitt LTh Rome.

**COLLÈGE BOURGET**, Rigaud, P.Q. Superior—Father E. Lefebvre, BA LPh Rome.

**COLLÈGE DE L'ASSOMPTION**, l'Assomption, P.Q. Superior—Mgr. H. Langlois, BA BDrCan LTh LèsLitt.

**COLLÈGE DE MONTRÉAL**, 1031 Sherbrooke St. West, Montreal, 25. Superior—D. Robitaille, BA LTh LèsLitt LPéd.

**COLLÈGE DE SAINT-LAURENT**, Saint-Laurent, P.Q. Superior—Rev. Father M. Descheneaux, BA.

**COLLÈGE JEAN-DE-BREBEUF**, 32 Ch. Sainte-Catherine, Montreal, 26. Rector—Rev. Father R. Fortin.

**COLLÈGE MONT-SAINT-LOUIS**, 244 Sherbrooke St. East, Montreal, 18. Superior—Brother Mathieu-David, BA BPéd LèsLitt.

**COLLÈGE SAINT-DENIS**, 4152 St.-Denis St., Montreal, 18. Director—G.-Y. Moreau, BA DPs.

**COLLÈGE SAINTE-CROIX**, 3280 Sherbrooke St. West, Montreal, 36. Superior—Rev. Father M. Lafond, BA LTh.

**COLLÈGE SAINTE-MARIE**, 1180 Bleury St., Montreal, 2. Rector—Rev. R. Lebel.

**COLLÈGE STANISLAS**, 780 Dollard Blvd., Outremont, P.Q. Superior—Mgr. B. Fernique, BA.

**EXTERNAT CLASSIQUE DE LONGUEUIL**, 945 Chambly Rd., Ville-Jacques-Cartier, P.Q. Rector—Rev. Father F. Porter, BA LCat Rome, DTh Wash., DiplPéd Paris.

**EXTERNAT CLASSIQUE JEAN-JACQUES OUIER**, 4300 Blvd. LaSalle, Verdun, P.Q. Superior—J. C. Côté, BA BTh.

**EXTERNAT CLASSIQUE SAINT-VIAEUR**, 475 Bloomfield Ave., Outremont, P.Q. Superior—Father L. J. Lefebvre, BA BTh LèsLitt&Péd.

**LOYOLA COLLEGE**, 7141 Sherbrooke St. W., Montreal, 28. Rector—Rev. T. G. Malone.

**SÉMINAIRE DE JOLIETTE**, Joliette, P.Q. Superior—Father G. Bibeau, BA LTh LSc.

**SÉMINAIRE DE MARIE-MÉDIATRICE**, 161 Roy St. W., Montreal, 18. Superior—Abbé R. Comtois, BA BTh.

**SÉMINAIRE DE PHILOSOPHIE**, 3880 Côte-des-Neiges, Montreal, 25. Superior—R. Duhamel, BA LTh.

**SÉMINAIRE DE SAINTE-THÉRÈSE**, Sainte-Thérèse-de-Blainville, P.Q. Superior—Mgr. P. Décary, MA Fordham, BA BTh DiplPéd.

**SÉMINAIRE DE SAINT-HYACINTHE**, Saint-Hyacinthe, P.Q. Superior—Mgr. A. Brouillard, BA BDrCan&Phil LèsLitt.

**SÉMINAIRE DE SAINT-JEAN**, Saint-Jean, P.Q. Rector—Mgr. B. Courville, BA.

**SÉMINAIRE DE VALLEYFIELD**, Salaberry de Valleyfield, P.Q. Superior—Canon M. Montpetit, BA BPéd BTh.

**SÉMINAIRE DES SAINTS-APÔTRES**, Côte Ste-Catherine, Laprairie, P.Q. Superior—Rev. Father J. P. Roy, BA LTh Greg.

**SÉMINAIRE OBLAT DE MARIE-IMMACULÉE**, Chambly, P.Q. Superior—Rev. Father R. Ostiguy, BA DPh Ott., LPh Rome, LTh Greg.

**SÉMINAIRE SAINTE-CROIX**, Saint-Laurent, Montreal, 9. Superior—Rev. Father M. Lalonde, BA.

**SÉMINAIRE SAINT-SACREMENT**, Terrebonne, P.Q. Superior—Rev. Father E. Carrier, BA.

*For girls*

COLLÈGE BASILE-MOREAU, Saint-Laurent, P.Q. Directress—Sister Marie-de-Saint-Albert-le-Grand, BA LèsLitt&Péd.

COLLÈGE JÉSUS-MARIE, Outremont, P.Q. Directress—Sister M. Joseph-du-Saint-Sacrement, BA LèsLitt.

COLLÈGE MARGUERITE-BOURGEOIS, Montreal. Directress—Sister Saint-Sylvius, MA.

COLLÈGE MARIE-ANNE, Lachine, P.Q. Directress—Sister Marie-Jean-de-Sienne, BA BPéd.

COLLÈGE SAINT-MAURICE, Saint-Hyacinthe, P.Q. Directress—Sister Marie de Sion, BA LPéd.

MARIANOPOLIS COLLEGE, Montreal. Dean—Sister St. Madeleine of Charity, BA Ott., MA Col.

**ATTACHED INSTITUTIONS (ÉCOLES ANNEXÉES)**

HIGHER INSTITUTE OF HOSPITAL ADMINISTRATION, 2900 Mont-Royal Blvd., Montreal, 26 (tel. : Montreal, Regent 3-9951). Attached to the Sch. of Hygiene. Provides complete courses for MAH of the univ. Dir.—G. Lasalle, MD DHA.

HIGHER INSTITUTE OF RELIGIOUS SCIENCES, 2900 Mont-Royal Blvd., Montreal, 26 (tel. : Montreal, Regent 3-9951). Attached to the Fac. of Theology. Provides complete courses for BScRel, MScRel, MA, PhD of the univ. Dir. of Studies—Rev. R. Brosseau, LTh DPH.

HIGHER SCHOOL OF MUSIC OF THE INSTITUTE OF THE SISTERS OF ST. ANNE, Institut Cardinal Léger, Rosemont, P.Q. (tel. : Montreal, Raymond 8-3681). Provides complete courses for BMus, LMus, DMus of the univ. Directress—Sr. Marie-du-Cénacle.

HOME ECONOMICS : 8 schools.

INSTITUTE OF DIETETICS AND NUTRITION, 2900 Mont-Royal Blvd., Montreal, 26 (tel. : Montreal, Regent, 3-9951). Attached to the Fac. of Medicine. Provides complete courses for BSc (Nutr), MSc(Nutr). Directress—Rachel Beaudoin, BSc *Corn.*, DScHyg *Harv.*, MSc.

INSTITUTE OF TRANSLATION, 410 Wiseman St., Montreal, 8 (tel. : Montreal, Crescent 8-5879). Provides evg. courses for a univ. dipl. Directress—Jeanne Grégoire.

LASALLE CONSERVATORY (French elocution and oratory), 3425 Ridgewood Ave., Apt. 405, Montreal, 26 (tel. : Montreal, Regent 8-1406). Provides complete courses for a univ. dipl. Dir.—G. Landreau.

LIBRARY SCHOOL, 25 St. James Street East, Montreal, 1 (tel. : Montreal, University 1-9621). Provides complete courses for BBibl of univ. Dir.—J. R. Leduc, BA BLS *McG.*

NAZARETH INSTITUTE (Music School for the Blind), 1460 Chemin de la Côte-Saint-Michel (tel. : Montreal, Dupont 8-4277). Provides complete courses for BMus, LMus, DMus. Directress—Sr. Marcelle Desilets.

PIUS XI INSTITUTE (a higher school of theol.), 2065 Sherbrooke St. West, Montreal, 25 (tel. : Montreal, Wellington 3-1860). Provides complete courses for a cert. Dir.—J. B. Desrosiers.

SCHOOL OF MEDICAL TECHNOLOGY, 2900 Mont-Royal Blvd., Montreal, 26 (tel. : Montreal, Regent 3-9951). Attached to the Fac. of Medicine. Provides complete courses for a dipl. Dir.—R. Beaulieu, MD.

SCHOOL OF MUSIC OF THE COLLEGE MARIE-DE-L'INCARNATION, Trois Rivières, P.Q. Provides complete courses for BMus, LMus of the univ. Directress—Sr. Marie-du-St.-Sacrement.

SCHOOL OF MUSIC NOTRE-DAME, Hull, P.Q. Provides complete courses for BMus of univ. Directress—Sr. Marie-de-la Victoire.

SCHOOL OF MUSIC OF THE SISTERS OF LA PRÉSENTATION-DE-MARIE, Saint-Hyacinthe, P.Q. Provides complete courses for BMus, LMus of univ. Directress—Sr. Marie-Noëlie.

SCHOOL OF MUSIC OF THE SISTERS OF THE ASSUMPTION, Nicolet, P.Q. Provides complete courses for LMus of univ. Directress—Sr. Cécile-de-la-Trinité.

SCHOOL OF MUSIC SAINTE-CROIX, Saint-Laurent, P.Q. Provides complete courses for BMus of univ. Directress—Sr. Marie de Ste-Jeanne-du-Rosaire.

SCHOOL FOR 'TOURISTS' GUIDES (History of Montreal), 2900 Mont-Royal Blvd., Montreal, 26 (tel. : Montreal, Regent 7-6561). Periodical evg. courses lead to a cert. Dir.—G. Roy.

SCHOOL OF REHABILITATION, 2900 Mont-Royal Blvd., Montreal, 26 (tel. : Montreal, Regent 3-9951). Attached to the Fac. of Medicine. Depts. of (a) Physiotherapy and Occupational Therapy; (b) Audiology and Speech Therapy. Provides complete courses leading to (a) dipl., (b) MA of univ. Dir.—G. Gingras, MD.

VINCENT D'INDY SCHOOL (a higher school of music), 1410 Mont-Royal Blvd., Outremont, 8 (tel. : Montreal, Crescent 9-1215). Provides complete courses leading to BMus, LMus, DMus of univ. Dir.—H. Sr. Marie-Stéphane.

INSTITUTE OF EXPERIMENTAL MEDICINE AND SURGERY, 2900 Mont-Royal Blvd., Montreal 26 (tel. : Montreal, Regent 3-9951). Provides basic res. facilities leading to MSc, PhD of univ.

Dir.—H. Selyé, MD PhD *Prague*, DSc *McG.*, FAAAAS, FRSCan.

INSTITUTE OF MICROBIOLOGY AND HYGIENE, 2900 Mont-Royal Blvd., Montreal, 26 (tel.: Montreal, Regent 3-5394). Founded 1938. No degrees awarded. Candidates for MSc or PhD (appl. res.) of the univ. work at this inst. Dir.—A. Frappier, MD.

MONTREAL CANCER INSTITUTE, 1560 Sherbrooke

St. East, Montreal, 25 (tel.: Lafontaine 5-6363). Founded 1941, affiliated to the univ. in 1958. Provides basic & appl. res. facilities leading to MSc, PhD of univ. Dir.—L. C. Simard, MD.

RADIUM INSTITUTE, 4120 Ontario St. East, Montreal, 4 (tel.: Montreal, Lafontaine 3-3151). Founded 1922, affiliated to the Radium Institute in Paris 1923. Hospital attached. Appl. res.; no degrees awarded. Dir.—R. Lévesque, MD.

## GENERAL INFORMATION

Originally establd. in Montreal in 1876 as a branch of Laval Univ., the Univ. of Montreal became autonomous in 1920, under a special act of the legislature of the province of Quebec subsequently revised in 1950. It also enjoys certain privileges under a papal charter dating from 1919 and is Roman Catholic in outlook. Through affiliated instns. (*see above*) as well as by itself, the univ. caters for the educnl. needs of over 12,000 students, over 3000 of whom attend courses and lectures in the bldgs. of the univ. proper.

The univ. is owner in freehold of several acres on the western slope of Mont-Royal. The present bldgs. were erected between 1937 and 1941, at a cost of over \$12,000,000. In 1947-48, an additional \$12,000,000 was raised through public subscriptions for various purposes. So far, a students' residence and a students' union bldg. have been completed and a pension fund for fac. and staff has been establd. There still remains to be completed the univ. hosp.

CONSTITUTION. Four out of the 12 members of the bd. of governors are apptd. by the Roman Catholic hierarchy. The remaining 8 governors are French-Canadian business personalities. The bd. is self-perpetuating. Financial affairs are under the direct supervision of an executive cttee. composed of 5 governors; the chief executive officers are the rector, vice-rector, secretary general and treasurer general. Pedagogical matters are determined by a commission on studies composed mainly of the deans of the different facs.

INCOME. Total income (1958-59), \$4,374,524 (principal sources: provincial govt. grants, 36 per cent.; fees, 33 per cent.; endowment and grants for res., sp. educnl. and allied projects, 24 per cent.). Total income excludes theology and all affiliated instns., which are autonomous and have their own separate budgets.

LIBRARY. General libr., 250,000 vols.; sch. of higher comml. studies, 130,000 vols.; sch. of engin., 99,800 vols.; Grand Séminaire de Montréal, 58,200 vols. Total: 538,000 vols.

FACULTIES AND DEANS, *see p. 230*.

DEGREES. BPh in psychol. or mediæval studies, 1 yr.; BPh, 1 or 2 yrs.; BMus (sacrée), 1 yr.;

BMus (profane), 2 yrs.; BScRel, 2 yrs.; BTh, 2 or 4 yrs.; LLB, 3 yrs.; BSc (Nutr), BSc gen., BSc spec. (in biochem., biol., chem., geol., maths., maths.-phys., phys.; also in econ., pol. or sociol.-anthropol.), BPharm, BA gen., BA in Slavistics, 4 yrs.; LTh, 1 yr. after BTh; LPh, 1 yr. after BPh; LPh in mediæval studies, 1 yr. after BPh in mediæval studies; LPh in psychol., 2 yrs. after BPh in psychol.; LLett, 2 yrs.; LLL, LMus (sacrée), 3 yrs.; LMus (profane), 4 yrs.; MD, 5 yrs.; MA in anthropol., criminol., econ., indust. relns., pol., sociol., soc. work, 1 or 2 yrs. after BSc of the fac.; MA in law, 1 yr. after LLB or LLL; MA \* in mediæval studies, 1 yr. after BPh in mediæval studies; MA in letters, 1 yr.; MA \* in philos., 1 or 2 yrs.; MA in speech therapy & audiol., 2 yrs.; MA \* in psychol., 3 yrs.; MA in religious sci., 2 yrs. after BA or BPh; MSc in med., 1 yr. after MD or BSc; MSc (Nutr), 12 mos. after BSc (Nutr); MScRel, 1 or 2 yrs. after BScRel; MSc, 1 yr. after BSc or MD; MPharm, 1 yr. after BPharm; DTh, 1 yr. after LTh; DPh, 1 yr. after LPh; DPh in mediæval studies, 1 yr. after LPh in mediæval studies; DPh in psychol., 1 yr. after LPh in psychol.; PhD \* in philos., 1 yr. after LPh or 2 yrs. after MA; DSc or PhD in sci., 2 yrs. after MSc; DMus, 2 yrs. after MMus; LLD, 3 yrs. after LLL; PhD in anthropol., econ., indust. relns., pol., sociol., soc. work, 2 yrs. after MA of the fac.; PhD in letters, 2 yrs. after MA; PhD in med., 3 yrs. after MD or BSc; PhD \* in mediæval studies, 2 yrs. after MA; PhD in religious sci., 2 yrs. after MA in religious sci.; DPharm, 3 yrs. after BPharm; PhD \* in psychol., DLett, DDS, 4 yrs.; BEdPR, 4 terms; LH, 4 terms; MA, 2 yrs.; MEdS, 1 yr.

*Degrees of the univ. for which courses are provided only in the Affiliated and Attached Schools.* Polytechnic: BSCA, 5 yrs.; MSCA, 1 yr. after BSCA; DSCA, 3 yrs. after BSCA. Sch. of Higher Commercial Studies: BSCCom, 4 yrs.; LSCCom, 3 yrs., or 2 yrs. after BSCCom; LSC Comptables, 1 yr. after LSCCom; LSCAct, 1 yr. after LSCCom; DSCCom. Optometry: LSCO, 3 yrs. Sch. of Vet. Sci.: DMV, 5 yrs. Marguerite d'Youville Inst.: BSCedInf, 2 yrs. Normal Sch. for Secondary Teaching: BPéd, 1 yr., LPéd, 2 yrs.;

\* The MA is equivalent in psychol. to LPh, in mediæv. studies and in philos. to BPh plus presentation of thesis. The PhD is, for practical purposes, equivalent to DPh.

DPéd, 2 yrs. after LPéd. St. George Pedagogical Inst.: BPéd, 1 yr.; LPéd, 2 or 3 yrs.; DPéd, 2 yrs. after LPéd. Pedagogical Inst. (C.N.D.): BPéd, 4 yrs.; LPéd, 2 yrs. after BPéd; DPéd, 2 yrs. after LPéd. Inst. of Family Pedagogy: BPF, 2, 3 or 4 yrs. Library Sch.: BBibl, 1 or 2 yrs.

HONORARY DEGREE. LL.D.

DIPLOMAS AND CERTIFICATES. DHP, DIHP or DIHP, III (Infirmière Hygiéniste), 1 yr.; dipl. in orthodontics, 16 mos. after DDS; dipl. in nursing, 3 yrs.; dipl. in physiotherapy & occupnl. therapy, 3 yrs.; dipl. in med. technol., 2 yrs.

FEES 1960-61 (annual). Theol., \$200; Higher Inst. of Religious Scis., \$325; law, \$375; med., \$525; experimental med. & surg., \$375; dietetics, \$360; med. technol., \$375; rehabilitation, \$375; philos., \$375; mediev. studies, \$375; psychol., \$375; letters, \$375; scis., \$425; dent. surg., \$475; pharm., \$425; soc. sci., \$375; music, \$360; hygiene, \$500; Polytechnic Sch., \$325 (1st yr.); optometry, \$400; Vet. Sch., variable; Sch. of Higher Commercial Studies, \$240 (1st yr.); Marguerite d'Youville Inst., \$280; Normal Sch. for secondary teaching, \$350; St. George Pedagogical Inst., variable; Pedagogical Inst. (C.N.D.), \$150; Inst. of Family Pedagogy, \$250.

ADMISSION REQUIREMENTS. The usual admission prerequisite is a bachelor of arts degree in humanities of the Univ. of Montreal or its equivalent. However, students with sr. matric. are now admitted to the facs. of sci., soc. & pol. sci., and econ., schs. of comm., engin., rehabilitation, med. technol., and inst. of dietetics. Students residing outside the province of Quebec must submit full particulars of studies and marks obtained during their BA course or towards the securing of any other dipl. submitted. For full details see the *General Prospectus* and the *Prospectus* of each fac. and sch. concerned. Enquiries should be addressed to the sec. of the sch. or fac. in which the student intends to register. See also Appendix II.

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Succession Paulhus, \$55,750; Fondation Rhéaume, \$34,700; Gustavus & Louise Pfeiffer Res. Foundation, \$60,100; anon., \$50,000.

NEW DEPARTMENTS AND CHAIRS. Dept. of pharmacol. (fac. of med.); chair of criminol. & penol.; chair of phys. anthropol. (fac. of soc., pol. scis. & econ.).

DEATHS. Dr. L. Gérin-Lajoie (prof., fac. of med.); Hon. Justice P. Cousineau (prof. emer., fac. of law); A. Saint-Pierre (prof. emer., fac. of soc., pol. scis. & econ.); Hon. L. Gendron (prof. emer., fac. of law); P. Vaillancourt (member of bd. of admin.); Dr. P. Masson (prof., fac. of med.); Dr. J.-N. Roy (prof. emer., fac. of med.); Dr. L.-de-G. Joubert (former assoc. prof., fac. of

TEACHING HOSPITALS. Hôtel-Dieu (general), H. Notre-Dame (general), H. St.-Luc (general), Veterans H. (general), H. de la Miséricorde (maternity), H. Ste.-Justine (children), H. du Sacré-Cœur (general and TB.), H. Général de Verdun (general), H. Pasteur (infectious dis.), H. Ste.-Jeanne-d'Arc (general), Sanatorium St.-Joseph (TB.), Institut Albert Prévost (mental), H. St. Jean de Dieu (mental), Institut Bruchési (TB.), H. Maisonneuve (general).

USUAL LANGUAGE OF INSTRUCTION. French. Students may write exams. in French or English.

EXTENSION DEPARTMENT. Organized in 1952, offers in the evgs. and summer months several non-degree courses. Students may also register in the facs. of arts & sci. for full degree courses leading to BA and BSc (general). Dir.—L. Lortie, DScPhys *Paris*, Hon. DSc *Ott. & Caen*, LScChim, FRScCan.

VACATION COURSES in French and English lits. and langs., linguistics, philos., hygiene, pure sci., slav. studies, translation.

GRADUATES' ASSOCIATION. Les Diplômés de l'Univ. de Montréal, 2222 Maplewood Ave., Montreal, 26 (tel.: Montreal, Regent 3-9951). Sec.—R. Lessard.

UNIVERSITY MILITARY FORMATION. Corps-école d'officiers canadiens. (C.O.T.C.). Also univ. naval trg. div. and R.C.A.F. reserve univ. flight.

STUDENTS' UNION. A.G.E.U.M. (Assocn. Générale des Étudiants de l'Univ. de Montréal).

PUBLICATIONS. *Annuaire général* (May), *General Prospectus* and fac. *Prospectuses*; *La Revue trimestrielle canadienne* (\$3); *L'Actualité économique* (\$3); *L'Action universitaire* (\$3); *Thémis* (\$2.50); *La Revue médicale* (\$3); *La Revue de biologie* (\$6); *Contributions à l'étude des sciences de l'homme* (\$4); *Études slaves et européennes* (\$4).

med.); Dr. M.-H. Lebel (former assoc. prof., fac. of med.); R. P. G. Blanchet (prof., sup. inst. of rel. sci.); A. Leduc (prof. emer., fac. of soc., pol. scis. & econ.); Dr. J.-M. Tremblay (assoc. prof., fac. of med.); S. Ex. Mgr. J. Charbonneau (former chancellor of Montr.).

HONORARY DEGREES. LL.D.—Rt. Hon. J. Diefenbaker, prime minister of Canada; Hon. J. Brillant, member of prov. of Que. legislative council; Dr. J. B. Collip, dean of fac. of med., W. Ont.; R. Dupuis, pres., Dupuis Frères Ltée., member of bd. of dirs., C.B.C.; T. W. Eadie, pres., Bell Telephone Co. of Canada; P. Gendron, dean, fac. of sci., Ott.; Justice T. Tremblay, Quebec. *DPed*—Sister Marie de Ste-Flore d'Auvergne, founder, Collège Basile-Moreau. *DPH*—Dr. R. D. Defries, Can. Public Health

Assocn. DSc—S. Cain, prof. & chief of dept. of conservation, Mich.; Prof. P. Chouard, Conservatoire National des Arts & Métiers de France; Prof. E. Hulten, Lund U., dir. of Museum of Natural Hist., Stockholm; W. C. Steere, dir. of New York Bot. Garden; C. G. J. van Steenis, editor-in-chief of *Flora Malesiana*, Herbarium royal de Leyde, Holland.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	10,412	1018
Women . . .	5,376	1991
Total . . .	15,788	3009

Distribution by Faculties and Schools. *Agric.*, 66; *arts*, 5499; *comm.*, 644; *dent.*, 180; *dietet.* & *nutrition*, 70; *engin.*, 1279; *family ped.*, 151; *home econ.*, 332; *hyg.*, 91; *law*, 397; *letters*, 172; *library sci.*, 12; *med.*, 558; *med. technol.*, 87; *music*, 161; *nursing*, 2297; *optometry*, 60; *pedagogy*, 1303; *pharm.*, 265; *philos.*, 233; *rehabilitation*, 63; *rel. sci.*, 73; *sci.*, 966; *soc., econ. & pol. sci.*, 237; *theol.*, 447; *vet. med.*, 145. Total: 15,788.

Included in the figures above are:—

Postgraduate students, 702.

Students from other countries, 582. (Countries

from which largest numbers came: U.S.A., 90; France, 85; Haiti, 66; Vietnam, 46; Italy, 42; Belgium, 31).

DEGREES AWARDED (1958-59). *Agric.*: LSA, 6; BSA, 9. *Arts*: BA, 971. *Comm.*: LScCom, 39; BScCom, 56; BCom, 14. *Dent.*: DDS, 39. *Educn.*: LPed, 80; BPed, 332; BPF, 21. *Engin.*: DScA, 1; MScA, 2; BScA, 124. *Hyg.*: LH, 14. *Law*: LL.D, nil; LL.L, 70; LL.B, 3. *Letters*: LLett, 14; MA, 41; DLett, 1. *Library sci.*: BBibl, 5. *Med.*: MD, 95; BSc(Nutr), 9. *Music*: MMus, 5; LMus, 5; BMus, 22. *Nursing*: BScInf, 17. *Optometry*: LScO, 14. *Pharm.*: MPharm, nil; BPharm, 58. *Philos.*: LPh, 2; BPh, 46; MA, 4; LPh (psychol), 4; MA (psychol), 4. PhD (psychol.), LPh (mediaev. studies), 1. MA (mediaev. studies), 3; PhD (mediaev. studies), 2. *Sci.*: DSc, 2. MSc, 14; BSc, 99. *Soc., econ. & pol. sci.*: MA(Econ), 1; MA (RelInd), 2; MA(Soc), 1; MA(Soc Work), 10. *Theol.*: LTh, 36; BTh, 41. *Vet. med.*: DMV, 20.

DIPLOMAS AWARDED (1958-59). Elocution, 17; family & soc. educn., 45; engin., 110; home econ., 15; hyg., 32; med. technol., 25; music, 5; nursing, 549; pub. health nursing, 32; theol., 37; translation, 8; tourism, 30.

CERTIFICATES AWARDED (1958-59). Dent. (postgrad.), 5; letters, 1; music, 10; psychol., 4; theol., 60.



# MOUNT ALLISON UNIVERSITY\*

Founded 1858; previously established as Mount Allison Wesleyan Academy, 1840

*Postal Address*: Sackville, New Brunswick, Canada

*Cables and Telegrams*: Mount Allison, Sackville, New Brunswick

*Telephones*: Sackville 15, 17 and 258

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LIBRARIAN—L. M. ALLISON, BA *Dal.*, BLS *Tor.*

## TEACHING STAFF

[†=Part-Time]

**Art**, see Fine Arts

### Biology

Stallworthy, W. B., BA PhD *Tor.*

Prof., Hd. of Dept.

Dimelow, Elizabeth J., BA *Birm.*,

BSc *Lond.*, PhD *R'dg.*

Lectr.

Rebuck, A., MSc *Penn.*

Lectr.

### Chemistry

Cuthbertson, A. C., MSc PhD *McG.*

Carnegie Prof., Hd. of Dept.

MacLauchlan, D. W., PhD *McG.*, BSc Prof.

Barclay, L. R. C., PhD *McM.*, MSc Asst. Prof.

Chalk, A. J., BSc *Lond.* Lectr.

Cunningham, H. M., MSc *Manit.*,

PhD *Corn.*

†Lectr.

### Classics

Crake, J. E. A., BA *Tor.*, MA *Oxon.*,

PhD *Johns H.* Wood Prof., Hd. of Dept.

MacLean, H. A., BA *McM.*, MA PhD *Wis.*

Asst. Prof.

Sherwood, D. A., BS *Purdue*, MA *Tor.* Lectr.

### Commerce

Perrin, J. R., MBA *Calif.*, PhD *Lond.* Asst. Prof.

Leard, A. D., BA Asst. Prof.

Meldrum, W. W., LLB *Dal.* †Lectr.

Thomson, Mrs. Dorothy F., BA *Acad.*,

FdM *Boston*

Lectr.

### Economics and Political Science

Cunningham, W. B., BA *Acad.*, MA

PhD *Brown*

Black Prof., Hd. of Dept.

Campbell, I. L., BA *Car.*, MSc(Econ) *Lond.*

Asst. Prof.

Greenslade, J. G., BSc(Econ) *Lond.*

Lectr.

### Education

Southam, H. D., BA *Br.Col.*, DPæd *Tor.*

Prof., Hd. of Dept.

Bailey, A. W., MA BED *New Br.* Asst. Prof.

### Engineering

Boornie, R. A., BASc *Tor.*

Prof., Hd. of Dept.

Wright, J. G., BSc *Qu.*

Asst. Prof.

Pond, G. R., BE *N.S.T.C.*

Asst. Prof.

### English Language and Literature

Duchemin, L., BA *Dal.*, MA PhD *Tor.*

J. Allison Prof., Hd. of Dept.

McRae, C. F., BA *W.Ont.*, MA *McM.*,

PhD *Tor.*

W. M. Tweedie Prof.

Thomson, G. H., BA *W.Ont.*, MA

PhD *Tor.*

Asst. Prof.

Cross, D. W., BA *Camb.*

Lectr.

Sidnell, M. J., BA *Lond.*

Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Fine and Applied Arts**

Harris, L. P.	Prof., Hd. of Dept.
Colville, A., BFA	Assoc. Prof.
Roulston, E. N., BA	Assoc. Prof.
Pulford, E. B., BFA	Instr.
Roulston, M. L., BA	Instr.

**French**

MacBeth, T. A., MA <i>Middlebury</i>	Prof., Hd. of Dept.
Lamouzy, P., LèsL <i>Paris</i>	Lectr.
DesMarchais, G., MA <i>Montr.</i>	Lectr.
Thibault, Jacqueline L., LèsL Dipld'ÉtSup <i>Caen</i>	Lectr.
Thompson, Angela G., MA	Lectr.

**Geology**

Williamson, D. H., BSc PhD <i>Aberd.</i>	Dunn Prof., Hd. of Dept.
Allen, C. M., MSc <i>Manit.</i>	Asst. Prof.
Sims, W. A., BA <i>Amherst</i> , BSc <i>St.F.X.</i>	Lectr.

**German**

Scherrer, Auguste, BA <i>SirG.Wms.</i>	(on leave) Asst. Prof.
Mantuani, J. B., MCd <i>Vienna</i> , PhCd PhDpl <i>Ljubljana</i>	Visiting Lectr.

**History**

Lockwood, P. A., MA <i>Camb.</i>	Stiles Bennett Prof., Hd. of Dept.
Tolmie, M. M., BA <i>Dal.</i> , MA <i>Oxon.</i> & <i>Harv.</i>	Lectr.
Rawlyk, C. A., BA <i>McM.</i>	Lectr.
Duckworth, M. W., BA <i>Yale</i> , MA <i>Tor.</i>	†Lectr.

**Home Economics**

Runciman, Doris, BS MA <i>Col.</i>	Prof., Dir.
Cavanagh, Christine M., BSc <i>Acad.</i> , MSc <i>Col.</i>	Assoc. Prof.
Kennish, Marjorie, BSc <i>Tor.</i> , MBA <i>Chic.</i>	Asst. Prof.
Seaman, Mrs. Louise V., BSc	Asst. Prof.

**Mathematics**

Crawford, W. S. H., MA PhD <i>Minn.</i> , BA Smith Prof., Hd. of Dept.	Asst. Prof.
McAndrew, M. H., PhD <i>Camb.</i>	
Flemming, J. A., BE <i>N.S.T.C.</i>	Lectr.
Sparkes, E. F., BA	Lectr.
Jamieson, Joy, MA <i>Edin.</i>	Lectr.

**Music**

Brown, H., BA MusB <i>Tor.</i> , MA <i>Mich.</i> (Piano) Prof., Dir. of Conservatory	
Patterson, Allison, BSc BEd (Piano & Organ) Teacher	
Allen, Dorothy, MusB	(Voice) Teacher
Daniel, Catherine J.	(Voice) Teacher
Kinsman, Evron, MusB	(Piano) Teacher
Lewis, Patricia G.	(Piano) Teacher
Elliott, C., MMus <i>Redlands</i> (Music Theory & Piano) Instr.	
Saunders, S., DipMus DipEd <i>Wales</i> (Orch. Instruments) Theory Teacher	
Spurr, Mrs. Louise, BA <i>Dal.</i> (Pub. Sch. Music) †Instr.	

**Philosophy**

Baxter, C., MA PhD <i>Tor.</i>	II. A. Massey Prof., Hd. of Dept.
Hahn, Marina, BA <i>Tor.</i>	Lectr.

**Physics**

MacGregor, D. G., BA <i>Dal.</i> , MA <i>Oxon.</i> O. E. Smith Prof., Hd. of Dept.	
Crawford, D. P., MSc <i>Dal.</i> , PhD <i>Roch.</i> , BSc	Prof.
Matthews, J. H., MSc <i>Dal.</i> , PhD <i>Lond.</i> , BSc	Asst. Prof.

**Psychology and Sociology**

Tuck, J. A., MA PhD <i>Tor.</i>	Prof., Hd. of Dept.
Campbell, I. L., BA <i>Car.</i> , MSc(Econ) <i>Lond.</i>	Asst. Prof.
Burd, F. W., MA <i>Tor.</i>	Asst. Prof.

**Spanish**

Thompson, Angela G., MA	Lectr.
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**ADMINISTRATIVE AND OTHER STAFF**

Dean of Men : D. W. MacLauchlan, BSc'PhD  
McG. Dean of Women : Inez Morrison, BA  
DipTheol. Dir., Alumni & Public Relations :  
G. R. B. Inch, BA. Treasurer & Business  
Manager : J. A. Wheeler. Chaplain : D. I.

Macintosh, BD *Pine Hill*, BA. Dir., Phys.  
Educn. for Men : Major W. McCormack. Dir.,  
Phys. Educn. for Women : Joy Taylor, BPIIE  
BA *Tor.*

**ASSOCIATED AND AFFILIATED INSTITUTIONS**

MARITIME SCHOOL OF SOCIAL WORK, Halifax,  
N.S. (tel. : 3-6907). Dir.—L. T. Hancock,  
MA BSW. Founded in 1941, affiliated with Mt.  
All. in 1951. Mt. All. confers MSW after 2 yrs.  
of professional trg. at this sch. following the BA  
or BSc from Mt. All. or other recog. univ.

PINE HILL DIVINITY HALL, Halifax (tel. :  
3-6939). Principal—Very Rev. C. M. Nicholson,  
BA DD LL.D. Founded in 1820 as a Presbyterian  
theol. coll., is now under United Church of  
Canada. Students who complete at Mt. All. the  
4 yr. combined arts and first yr. theol. course

receive the BA of Mt. All. and may qualify for the BD in 2 further yrs. at Pine Hill.

PRINCE OF WALES COLLEGE, Charlottetown, P.E.I. (tel.: 7319). Principal—F. Mackinnon,

MA PhD. Founded in 1860. Students holding 3rd or 4th yr. certs. from the coll. are accepted with advanced credits in the 2nd or 3rd yr. in arts or sci. at Mt. All.

## GENERAL INFORMATION

Mt. Allison Wesleyan Academy for young men was founded in 1840. Charles F. Allison of Sackville, N.B., gave the site and bldgs. plus an annual support for 10 yrs. A parallel institution for girls, 'The Female Branch of the Male Academy', later known as Mt. Allison Ladies Coll., began work in 1854. In 1858, an instn. with the title of Mt. Allison Wesleyan Coll. was granted by the N.B. legislature power to confer degrees and in 1913 its name was changed to Mt. Allison Univ. (The name of the univ. is derived from the founder's name and the location; the univ. is situated on a hill-top overlooking the Tantramar marshes which stretch for miles around.)

Instrucn. in theol. subjs. began in 1860 and in 1903 the McClellan Sch. of Appl. Sci. was opened. As the univ. grew the function of the Academy and the Ladies Coll. gradually diminished (some of the courses taught at the Ladies Coll.—music, fine & appl. arts, home econ.—were absorbed into the curriculum of the univ. in 1936) and these two instns. were suspended in 1953 and 1946 respectively to provide more space for the rapidly growing univ.

Mt. Allison was a pioneer in the higher educn. of women. It conferred, in 1875, the first BSc granted to a woman in the British Empire and, in 1882, the first BA awarded to a woman in any Canadian univ.

Originally founded by the Methodist Church, Mt. Allison, after the church union of 1925, came under the sponsorship of the United Church of Canada. It is conducted on a non-sectarian basis.

CONSTITUTION. The direct govt. of the univ. is vested in a bd. of regents and a senate, and the general council of the United Church exercises a controlling influence on the affairs of the univ. through the power of appointing a majority of the regents. The general management of affairs is entrusted to the bd. of regents. The bd. consists of 44 members: 24 apptd. by the general council of the United Church of Canada and 20 reps. of the federated alumni. The senate is a composite body consisting of members of the fac. of the univ., and 12 regents appointed by the bd. It is charged with the duty of regulating the strictly educnl. concerns of the univ. In its internal admin. the univ. has always been conducted on strictly non-sectarian principles.

INCOME (1959). \$1,349,891 (govt. grants, 25 per cent.; tuition & general fees, 29 per cent.; endowment, 6 per cent.; ancillary enterprises incl. boarding depts., 40 per cent.).

FACULTIES AND DEANS. See p. 244.

LIBRARY. 90,000 vols., incl. valuable private collections.

ADMISSION. See Appendix II.

FIRST DEGREES. 4 yrs. from jr. matric.—BA pass, hons., BA with secretarial cert., BCom pass, hons., BSc pass, hons., BSc in home econ. For the BA degree 20 full credit courses, incl. 1st and 2nd yr. required courses and 10 electives in the 3rd and 4th yrs., with a major in 1 field and a minor in a related field, must be completed. Hons. courses in accounting, biol., chem., econ., Engl., French, geol., hist., maths., philos., phys., psychol., Engl. & hist., Engl. & philos., Engl. & Greek, Engl. & Latin, Latin & Greek, Greek & philos. Students completing the cert. course in fine arts may proceed to a 4th yr. to qualify for the bachelor of fine arts degree. The degree of MusBac is conferred on the satisfactory completion of a course in theory of music, composition and a practical subj.

HIGHER DEGREES. At present graduate work is offered in depts. of chem., classics, educn., Engl., hist. and philos.

BEd, 1 yr. after BA or BSc; MEd, 1 yr. after BEd; MSW (master of social work), 2 yrs. in Maritime Sch. of Soc. Work (see above) after BA or BSc.

MA or MSc, awarded after 1 to 2 yrs.' grad. study beyond BA or BSc with hons.; 1 yr. of resident study is required with exam. and thesis. Open to grads. of other univs.

HONORARY DEGREES. LL.D., DCL., DLitt, DMus, DD, DSc.

CERTIFICATES. Engin., 3 yrs.; fine arts, 3 yrs.; assoc. music, 3 yrs.; EdDip, 3 or 4 yrs. The cert. in engin. enables students to complete a degree course in engin. at N.S.T.C., McGill, Queen's and other univs. after a further 2 yrs. Secretarial cert. can be taken only with BA (see above).

RESEARCH. Sociol.: study of philos. of the criminal being conducted at Dorchester penitentiary; chem.: fundamental work on chem. of coal, hydrogenation studies, res. in pure org. chem. and petroleum chem.; biol.: res. project in prediction of spatfall in oysters, local shore ecol., studies on certain invertebrate animals.

STUDY LEAVE. Marjorie Young Bell fund provides for study leave for sr. members of staff.

FEES. Tuition: arts, \$375; sci., \$400; comm., \$385; educn., \$375; home econ., \$415; music, \$450; fine arts, \$500; engin., \$450; postgrad. yr., \$350. Fees incl. lab. fees, registration fee, concert and lecture series, rink, gymnasium, library, health services and insurance.

ACADEMIC YEAR. Mid Sept.—mid May. 2 terms of 15 wks. each.

**RESIDENCE.** Accommodations available for 530 men and 400 women. Bd. and room (furnished) \$540 p.a. Trueman House, sr. residence, accomm. for 195 men; Bennett House, Bigelow House, Hutton House, accomm. for 314 men; Mount Allison Academy residence, 80 women; The Cottage, 20 women; Allison Hall, 300 women. Ortona Hall and Normandy Hall, 16 apartments each, for married students and their families; rent, \$45 p.m.

**EXTENSION DEPT.** A limited number of evg. courses for credit are offered and a short winter series of popular lectures is given by members of regular univ. staff. Correspondence work is offered in some 1st and 2nd yr. courses. Other sp. programmes incl. a summer inst. on a sp. topic, United Nations Summer Sch., summer art workshop and local centre music teachers' course. Mt. Allison univ. forum, a public discussion of affairs, is broadcast over 8 privately owned radio stations in the Atlantic provinces.

**SUMMER SCHOOL.** The maritime summer sch., July 4-Aug. 13, is a regular session of the univ. Half courses are offered towards degrees and certs. which must be completed at a subsequent session of summer sch. or through the extension dept. Registration for univ. credit is limited to 3 half courses.

**SCHOLARSHIPS.** A number of entrance and course scholps. are available each yr., Lord Beaverbrook entrance scholps. (\$600 p.a. for 4 yrs.), 24 Herbert S. Sharp scholps. (\$500 p.a.) and 5 Bennett scholps. (\$500 p.a.). Other substantial scholps. are the Shawmigan (in chem.); the Inco; the Union Carbide Canada; the

Partenen (in mining engin.); the O. E. Smith scholps., the Dennis memorial and others. Lord Beaverbrook postgrad. scholps. are available annually.

**MOUNT ALLISON FEDERATED ALUMNI.** The federation elects 20 of the 44 members of the bd. of regents, 5 each yr. to serve 4 yrs.

**NATIONAL DEFENCE TRAINING.** Male students who enrol in the Canadian officers' trg. corps (C.O.T.C.) take a course of trg. designed to qualify them as commissioned officers in the Canadian army. The univ. naval trg. div. (U.N.T.D.) offers a 4-yr. course at regular service rates of pay and, on successful completion of the course, admission into the Royal Canadian naval reserve as a sub-lieutenant. The Royal Canadian air force offers courses for short service commission officers in the R.C.A.F. aircrew list and univ. summer trg. scheme as well as other trg. and employment schemes.

**HOSPITAL AND HEALTH SERVICE.** Includes phys. exam. with chest X-ray at registration. 2 hospital units on campus with grad. nurses in charge and a physician in attendance. A small fee included in the general fee contributes to the cost of this service.

**SPORTS FACILITIES.** Include a large playing field, a gymnasium, tennis courts and a large modern artificial ice rink.

**PUBLICATIONS.** *Calendar* (April); prospective student leaflet; *Argosy* (students), weekly; *Mount Allison Record* (alumni), quarterly; the *Wood lectures* (occasionally); pamphlets and leaflets.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** For endowment: \$82,080; for new bldgs.: \$401,500. Total value of all benefactions received, \$483,500.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: geol. & home econ. bldg.; new wing of memorial library; 3 residences for men.

**RESIGNATIONS.** Dr. R. E. Beschel (biol.), apptd. to Qu.; Dr. R. Mattessich (comm.), apptd. to Calif.

**HONORARY DEGREES.** DCL—J. G. Diefenbaker, prime minister of Canada. LLD—Annie A. Dickson, formerly dean of women; Christine A. M. MacInnes, formerly registrar; A. J. MacQueen, moderator of United Church of Canada; C. P. Stacey, war historian. DSc—L. J. Mordell, mathematician.

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time	External
Men	728	10	178
Women	426		243
Total	1154	15	421

Distribution by Faculties. *Arts* (incl. comm., educn., fine & appl. art, music, theol.), 701; *sci.* (incl. engin. and home econ.), 468. Total: 1169.

*Included in the figures above are:*—

Postgraduate students, 2.

New admissions, 450.

Students from other countries, 113. (Countries from which largest numbers came: W. Indies Fed., 42; Hong Kong, 35; U.S.A., 11).

**DEGREES AWARDED (1958-59).** *Arts*: BA, 82; BA & secretarial cert., 14; BCom, 16; BEd, 25; BFA, 2; MusBac, 3; MSW, 2. *Sci.*: BSc, 34; BSc in home econ., 11; MSc, 3. Total number of first degrees awarded, 192.

**DIPLOMAS AWARDED (1958-59).** AssocMus, 6; JrDipEd, 10; SrDipEd, 1.

**CERTIFICATES AWARDED (1958-59).** Engin., 39; fine arts, 3; appl. arts, 3; class 'D' French, 3; secretarial, 14. Hons.\*: acctg., 3; biol., 1; chem., 2; Engl., 1; French, 1; geol., 1; Greek & philos., 2; hist., 3; Latin, 1; maths., 3; psychol., 3.

\* A student on an hon. course is given an hon. cert. in addn. to his degree dipl. These certs. are not awarded independently of the degree dipl.

# MOUNT SAINT VINCENT COLLEGE

Chartered 1925

*Postal Address* : Halifax, Nova Scotia, Canada

*Cables and Telegrams* : Mount Saint Vincent College, Halifax, Nova Scotia

*Telephone* : Halifax 5-5441

CHAIRMAN, BOARD OF GOVERNORS—Mother STELLA MARIA, LLD

PRESIDENT—Sister FRANCIS D' ASSISI, MA *Dal.*, PhD *Fordham*

DEAN—Sister FRANCES CARMEL, BA *Dal.*, MA PhD *Tor.*, LMS *Pontif.Inst.,Tor.*

REGISTRAR—Sister ANNA GERTRUDE, BA *Dal.*, MA *St.F.X.*

LIBRARIAN—Sister FRANCIS DOLORES, BA MLS *Tor.*

## TEACHING STAFF

### Art History

Sister Marie Florette, BA *Dal.*, MA *Laval*  
Asst. Prof.

### Biology

Sister Mary Lua, BA *St.John's (N.Y.)*,  
MSc *C.U.A.* Assoc. Prof., Hd. of Dept.  
Wainwright, Lillian, MA PhD *Col.* Lectr.

### Chemistry

Sister Mary Evelyn, BA *Dal.*, MA *Tor.*,  
PhD *C.U.A.* Prof., Hd. of Dept.  
Sister Ernestine Marie, AM *I'assar*,  
EdB *Boston* Asst. Prof.  
Sabean, A. T., MSc *McG.* Lectr.

### Classics

Van Ginkel, H., DLL *Ley.*, LittHumDoct *Amst.*  
Prof., Actg. Hd. of Dept.

### Economics

Sister Ellen Francis, BA MCS *Boston*,  
BSc Assoc. Prof.  
Vorstermanns, J., PhD *E.II.Tilburg* Lectr.

### Education

Sister Mary James, MA PhD *Fordham*  
Prof., Hd. of Dept.  
Sister Maria Catherine, MA *Fordham*  
Assoc. Prof.  
Sister Maria Caritas, BA *St.John's (N.Y.)* Instr.  
Sister Anita Margaret, BA MEd *Boston Coll.*  
Asst. Prof.

### English

Sister Marie Agnes, MA *Dal.*, PhD *Fordham*  
Prof., Hd. of Dept.  
Sister Alice Michael, BA *Dal.*, MA  
PhD *St.John's (N.Y.)* Asst. Prof.  
Sister Stella Berchmans, BA *Boston Coll.* Instr.

### French

Sister Rose Celestine, MA *Dal.*, PhD *Fordham*  
Prof., Hd. of Dept.  
Sister Marie Florette, BA *Dal.*, MA *Laval*  
Asst. Prof.  
Stanford, Janice T., MA *Yale* Asst. Prof.

### History

Sister Francis d' Assisi, MA *Dal.*, PhD *Fordham*  
Prof., Hd. of Dept.  
Van Ginkel, H., DLL *Ley.*, LittHumDoct *Amst.*  
Prof  
Oudymaitis, O., MA *Dal.* Lectr

### Home Economics

Sister Elizabeth Clare, MSc *Simmons*,  
BSc Prof., Hd. of Dept.  
Sister Joseph Maria, MSc *Corn.* Instr.  
McKee, Mrs. Joanne, BSc Lectr.

### Library Science

Sister Francis Dolores, BA MLS *Tor.*  
Sister James Bernard, BA MLS *Tor.*

### Mathematics

Sister Anna Gertrude, BA *Dal.*, MA *St.F.X.*  
Assoc. Prof., Hd. of Dept.  
Ferrari, L. C., BSc *Syd.*, PhD *Laval* Asst. Prof.

### Music

Sister Cecilia Margaret, BMus *Tor.*,  
ARCT Instr.  
Underwood, C. Lectr.

### Nursing Education

Sister Margaret Edward, BA *Ott.*  
Dir. of Nursing Educn.

**Philosophy**

Sister Frances Carmel, BA *Dal.*, MA PhD *Tor.*,  
 LMS *Pontif.Inst.,Tor.* Prof., Hd. of Dept.  
 Monahan, A. P., MA PhD *Tor.*,  
 LMS *Pontif.Inst.,Tor.* Asst. Prof.

**Physics**

Lerrari, L. C., BSc *Syd.*, PhD *Laval* Asst. Prof.

**Secretarial Studies**

Sister Ellen Francis, BA MCS *Boston*,  
 BSc Assoc. Prof., Hd. of Dept.  
 Sister Ann Fintan, BSc Instr.

**Medical Secretarial Studies**

Miller, J. E. H., MD CM  
 (Clin. Procedures) Lectr.  
 MacDonald, Carmel W., BA MRI  
 (Med. Terminol.) Lectr.

**Sociology**

Sister Louise Adelaide, BA Instr.  
 Lovett, J., BA *Notre Dame* Lectr.

**Physical Education**

Gunter Buchta Instr.

**GENERAL INFORMATION**

Mount St. Vincent Coll. is conducted by the Sisters of Charity and is the only women's coll. in Canada empowered to confer degrees. The foundation and devel. of the coll. is closely bound up with Mount St. Vincent Academy, an instr. establ. in 1873. To meet the demand for higher educn. for women, coll. courses were introduced into the curriculum in 1914 by an arrangement with Dalhousie Univ. The charter was granted in 1925 by the legislature of the province of N.S.

A new bldg. houses residence accomm., admin. offices, lecture rooms and labs., as well as separate wings for chapel, library, home econ. dept., gymnasium-auditorium and music dept. Exceptionally fine collection of mineral. specimens.

**CONSTITUTION.** The bd. of governors, the governing body of the coll., is composed of the Mother General of the Community of the Sisters of Charity and her assts., plus the pres. of the coll. The chief executive officer is the coll. pres., who is assisted in her admin. duties by the dean and the registrar.

**INCOME (1959), \$250,000.** (Principal sources : govt. grants, 30 per cent. ; fees, 37.01 per cent. ; endowments (incl. benefaction of Sisters of Charity), 26.5 per cent. ; misc., 6.4 per cent.)

**FACULTIES.** Arts ; educn. ; home econ. ; music ; nursing ; radiol. technol. ; sci. ; secretarial studies. Dean of Studies—Sister Frances Carmel, PhD.

**LIBRARY.** 50,000 vols. Students have access to books in provincial library as well as to those regulated by inter-coll. and univs. loan system. Reading room. Rare books room houses the MacDonald collection (1st edns., original MSS., rare bindings, 10,000 vols.).

**TEACHING HOSPITAL.** Halifax Infirmary sch. of nursing provides trg. sch. for students in degree nursing course, as well as internship for degree

students in radiol. technol. and recognized dietitians in Canadian dietetics assocn.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** 4 yrs. after jr. matric.—BA, BMus, BSc, BSc in nursing, BSc in radiological technol., BSc in home econ., BSc in secretarial studies, BSc in elem. educn. For BA, majors may be taken in classics, Engl., hist., mod. langs., philos., soc. scis. ; for BSc, in biol. or chem. Hons. may be awarded for merit shown during course.

**HIGHER DEGREES.** 1 yr. after BA —BED and high sch. teacher's licence granted by provincial dept. of educn. ; 2 yrs. after corresponding bachelor's degrees—MA in arts or in educn.

**LICENCE in music (LMus)**—2 yrs. (first 2 yrs. of BMus course).

**DIPLOMA.** The coll. is a partner with King's Coll., N.S., and St. Mary's Univ. in the Halifax Sch. of Journalism, which awards a dipl. in journalism (3 yrs. from jr. matric.).

**ADULT EDUCATION.** By means of a specially arranged lecture schedule, the coll. enables teachers-in-service to continue their work towards a degree.

**FEES.** Inclusive fee for bd., residence and tuition, approx. \$800 p.a. Tuition only, \$50 per course. Lab. fees, \$5 to \$25. Degrees, \$25.

**EXTRA-MURAL WORK.** A limited amount of extra-mural work is done, under the direct supervision of the profs. of the various subj.

There are no 'OPEN' POSTGRADUATE AWARDS offered by, or tenable solely at, the coll.

**RESIDENCE.** Accommod. for approx. 175.

**PUBLICATIONS.** *Announcements* (annual calendar) ; *Kappa Kronicle* (students' year book).

**THE YEAR 1959**

**PRINCIPAL BENEFACTIONS.** Total value of all endowments and benefactions received : \$250,000.

**NEW DEPARTMENTS AND CHAIRS.** Chairs :

grad. educn., hist. of fine arts ; dept. & chair of grad. Engl.

**RESIGNATIONS.** Mrs. Renate Usmiani (Engl.).

**Statistics**

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Women only .	344	134

Distribution by Faculties. *Arts*, 143; *educn.*, 48; *home econ.*, 32; *music*, 6; *nursing sci.*, 27; *secretarial sci.*, 57; *sci.*, 26; *X-ray technol.*, 5.  
Total : 344.

Included in the figures above are :—

■ Postgraduate students, 11.

New admissions, 112.

Students from other countries, 108. (Country from which largest number came : U.S.A., 84).

DEGREES AWARDED (1958-59). *Arts* : BA, 31. *Educn.* : BEd, 10. *Elem. educn.* : BSc, 2. *Home econ.* : BSc, 2. *Library sci.* : BLS, 3. *Music* : BMus, 1. *Nursing sci.* : BSc, 1. *X-ray technol.* : BSc, 1. *Sci.* : BSc, 1. *Secretarial sci.* : BSc, 10.

DIPLOMAS AWARDED (1958-59). *Educn.*, 4, journalism, 1; *secretarial sci.*, 11; *med. secretarial sci.*, 3.

# UNIVERSITY OF NEW BRUNSWICK\*

Established 1785; incorporated by Royal Charter 1828

Postal Address: Fredericton, New Brunswick, Canada

Cables and Telegrams: UNB Fredericton

Telephone: Fredericton 9471

VISITOR ON BEHALF OF H.M. THE QUEEN—The Hon. J. L. O'BRIEN, Lieutenant-Governor of New Brunswick

CHANCELLOR—The Rt. Hon. LORD BEAVERBROOK, DLitt LLD

PRESIDENT—C. B. MACKAY, LL.B Br.Col., DCL Mt.All., LL.D Laval & New Br., BA

REGISTRAR—EDITH G. MACLEOD, BA

COMPTROLLER—C. L. MAHAN

LIBRARIAN—GERTRUDE GUNN, PhD Lond., MLS Simmons

DEANS—ARTS—A. G. BAILEY, MA PhD Tor., BA, FRSCan (Hist.); ENGINEERING—J. O. DINEEN, MSc (Electr. Engin.); FORESTRY—J. M. GIBSON, OBE, LL.D Tor., DSc; GRADUATE STUDIES—F. J. TOOLE, BSc(ChemEng) MSc PhD McG. (Chem.); LAW—W. F. RYAN, LL.M Col., BA BCL; SCIENCE—C. W. ARGUE, CBE, BA BSA Br.Col., MS Iowa State Agric., DSc (Biol.)

## TEACHING STAFF

### Biology

Argue, C. W., CBE, BA BSA Br.Col.,  
MS Iowa State Agric., DSc Prof.  
Pritchard, H. V., BA Tor., MA W.Ont.  
Assoc. Prof.  
Taylor, A. R., BA PhD Tor. Assoc. Prof.  
Anderson, J. M., BSc PhD Tor. Asst. Prof.  
Hagmeier, E. M., BA Qu., MA PhD Br.Col.  
Asst. Prof.  
Roberts, Patricia R., MSc N.Z., PhD Duke  
Asst. Prof.  
3 Hon. Lectrs.

### Business Administration

Maher, E. D., BA Tor., MBA Penn.  
Fred Magee Prof.  
Reddin, W. J., MBA Harv., BA Asst. Prof.  
1 Lectr.

### Chemistry

Toole, F. J., BSc(ChemEng) MSc PhD McG.  
Prof.  
Wiesner, K., DSc Prague, FRSCan  
(Org. C.) Prof.  
Los, J. M., Drs Amst. Assoc. Prof.  
Stuart, A. P., PhD McG., BA Assoc. Prof.  
Valenta, Z., DiplIngChem E.T.H.Zürich,  
MSc PhD Asst. Prof.  
2 Instrs.

### Classics

Cattley, R. E. D., MA Camb. Prof.  
Milham, Mary E., BA Carroll Coll. (Wis.),  
MA PhD Wis. Assoc. Prof.  
Smith, L. C., MA Durh., PhD Liv. Asst. Prof.

### Economics and Politics

Smith, W. Y., MA Oxon., BA Prof.  
Whalen, H. J., MA Alta., BA Assoc. Prof.  
Grasberg, E. L., PhD McG. (on leave) Asst. Prof.  
Boote, M. J., BA Wales, PhD McG. Asst. Prof.  
Levine, A. L., BA Alta., MA Tor.,  
PhD Lond. (Econ.) Asst. Prof.  
2 Hon. Lectrs.

### Education

Love, R. J., BPæd Tor., MA Prof.  
Blue, D. C., MA EdB St.And. Asst. Prof.

### Engineering, Civil

..... Prof.  
Beattie, I. M., BSc Assoc. Prof.  
MacFarlane, H. W., BSc Assoc. Prof.  
McLaughlin, R. H. B., BSc Assoc. Prof.  
Stevens, A. M., MSc (on leave) Assoc. Prof.  
Ballance, R. C., DIC, BSc Asst. Prof.  
Garland, E. C., MSc Asst. Prof.  
Grant, E. J., BSc Asst. Prof.  
Lee, K. L., MSc Alta. Asst. Prof.  
1 Lectr.

\* Member of the Association of Universities of the British Commonwealth



**Engineering, Electrical**

Dineen, J. O., MSc	Prof.
Collier, R. J., BSc <i>Alta.</i> , MSc	Assoc. Prof.
Burridge, R. E., BSc	Asst. Prof.
Rogers, J. D., BSc	Asst. Prof.
Scott, R. N., BSc	Asst. Prof.
Smolinski, W. J., BASc <i>Tor.</i>	Asst. Prof.
Wasson, W. D., SM <i>M.I.T.</i> , BSc	Asst. Prof.
2 Lectrs.	

**Engineering, Mechanical**

Wheatley, E. E., BSc <i>McG.</i> , MSc	Prof.
Coleman, F. R., BSc <i>N.S.T.C.</i>	Assoc. Prof.
Hagerman, E. W., BSc	Assoc. Prof.
Ireton, V. M., BSc <i>Qu.</i>	Asst. Prof.
Spinney, F. B., BSc	Asst. Prof.
1 Instr.	

**English**

Pacey, W. C. D., PhD <i>Camb.</i> , BA <i>Tor.</i> , FRSCan	Prof.
Galloway, D. R., MC, MA <i>Camb.</i>	Assoc. Prof.
Cogswell, F., PhD <i>Edin.</i> , MA	Assoc. Prof.
Johnstone, J. K., MA <i>Alta.</i> , PhD <i>Leeds</i> , FRSL	Assoc. Prof.
Donaldson, A. R., MA <i>Lond.</i> & <i>New Br.</i> , BA	Asst. Prof.
1 Lectr., 2 Teaching Fellows	

**Forestry**

Gibson, J. M., OBE, LL.D. <i>Tor.</i> , DSc	Prof.
Long, H. D. L., MSc <i>McG.</i> , BSc (Silviculture)	Prof.
Scheult, L. R., MScF <i>Tor.</i> (Logging, For. Utilization)	Prof.
Brown, N. R., MA <i>W.Ont.</i> (For. Entomol.)	Prof.
Pringle, S. L., MS <i>Calif.</i> , PhD <i>Syr.</i> , BSc	Prof.
Hilborn, W. H., BScF <i>Tor.</i>	Assoc. Prof.
Van Slyke, A. L., MF <i>Mich.</i> , BSc	Assoc. Prof.
Irwin, J. D., BScF <i>Tor.</i> , MWT <i>Mich.</i>	Asst. Prof.
2 Hon. Lectrs.	

**Geology**

MacKenzie, G. S., BSc <i>Manit.</i> , MA PhD <i>Tor.</i> , DSc, FRSCan	Boyle Prof.
McAllister, A. I., PhD <i>McG.</i> , BSc	Assoc. Prof.
Hale, W. E., PhD <i>Qu.</i> , MSc (Sir James Dunn Chair)	Asst. Prof.
Greiner, H. R., MSc <i>Alta.</i> , PhD <i>Yale</i>	Asst. Prof.
1 Hon. Lectr.	

**German**

Hubener, Jean I., DrPhil <i>Bonn</i>	Prof.
Lusher, H. E. G., BA <i>Bowdoin</i> , MA PhD <i>Johns H.</i>	Asst. Prof.
Oyler, J. E., MA <i>Alta.</i> , PhD <i>Northwestern</i>	Asst. Prof.

**History and Anthropology**

Bailey, A. G., MA PhD <i>Tor.</i> , BA, FRSCan	Prof.
MacNutt, W. S., BA <i>Dal.</i> , MA <i>Lond.</i> , FRHistS	(Hist.) Prof.

Chapman, J. K., PhD <i>Lond.</i> , MA (Hist.)	Assoc. Prof.
McFeat, T. F. S., BA <i>McG.</i> , MA PhD <i>Harv.</i> (Anthropol.)	Assoc. Prof.
Clark, L. C., BA <i>Manit.</i> , MA <i>Qu.</i> (Hist.)	Asst. Prof.

**Law**

Lynch, Mary L., BCL	Registrar
Ryan, W. F., LL.M. <i>Col.</i> , BA BCL	Prof.
Sears, J. W., BA BCL <i>Oxon.</i> , BA LLD	Prof.
McAllister, G. A., LL.M. <i>Col.</i> , MA BCL	Prof.
LaForest, G. V., MA <i>Oxon.</i> , BCL	Assoc. Prof.
8 Lectrs.	

**Mathematics**

Rosenberg, R. L., DIC, PhD <i>Berl.</i> , MA <i>Cape T.</i>	Prof.
Edwards, L. P., MA <i>Acad.</i>	Prof.
Weisner, L., BS <i>N.Y.</i> , AM PhD <i>Col.</i>	Prof.
Staal, R. A., MA PhD <i>Tor.</i>	Assoc. Prof.
Bowden, L., BSc <i>Lond.</i> , BLitt <i>Oxon.</i>	Asst. Prof.
1 Lectr.	

**Nursing**

MacLaggan, Katherine E., BN <i>McG.</i> , MA <i>Col.</i>	Prof.
Cutler, Rylys M., BN <i>McG.</i>	Asst. Prof.

**Philosophy**

Stewart, W. F. M., MA PhD <i>Edin.</i>	Prof.
Bower, J. L., MA <i>Harv.</i>	Asst. Prof.

**Physical Education**

Meagher, J. W., BA <i>Loyola</i> , BSc <i>McG.</i> , MS DEd <i>Penn.</i>	Assoc. Prof.
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**Physics**

Boone, A. E., MA <i>W.Ont.</i> , BSc	Prof.
Weiner, T., DrPhys <i>Milan</i>	Assoc. Prof.
Baker, W. B., MSc <i>Manit.</i>	Asst. Prof.
Kaiser, R., DrRerNat <i>Gött.</i>	Asst. Prof.
McLay, D. B., MSc <i>McM.</i> , PhD <i>Br.Col.</i>	Asst. Prof.

1 Lectr., 1 Hon. Lectr.

**Politics, see Econ. and Pol.****Psychology and Sociology**

Snodgrass, Florence T., EdM <i>Harv.</i> , PhD <i>Yale</i> , BA	(Psychol.) Prof.
Brookshire, K. H., BA <i>Stan.</i> , MS PhD <i>Oregon</i>	(Psychol.) Asst. Prof.
Pullman, D. R., BEd <i>Alta.</i> , MA <i>Tor.</i> (Sociol.)	Asst. Prof.

**Romance Languages**

McAndrew, W. A. G., BA <i>Tor.</i> , DUParis	Prof.
Herisson, C. D., LèsL DenD <i>Toulouse</i> , MA <i>LaFayette</i> , DiplèsScPol <i>Paris</i>	Prof.
Whimstér, Mary-Louise, BA <i>Manit.</i> , Certd'ÉtSup <i>Paris</i>	Assoc. Prof.
Shaw, A. J., MA <i>Mich.</i> , BA <i>Tor.</i>	Asst. Prof.

## ADMINISTRATIVE AND OTHER STAFF

Alumni Sec. : J. C. Murray, BA. Accountant : D. G. Sedgewick. Dean of Men's Residence : A. J. Shaw, MA *Mich.*, BA *Tor.* Dean of Women's Residence : Mary E. Milham, BA *Carroll Coll.*

(*Wis.*), MA PhD *Wis.* Dir., Athletics : P. C. Kelly. Dir., Art : Lucy M. H. Jarvis. Dir., Music : A. F. Trythall.

## GENERAL INFORMATION

Originally establd. as a provincial academy of arts and sciences in 1785, the Coll. of New Brunswick was incorporated in 1800 by provincial charter, re-incorporated in 1828 by royal charter as King's Coll., and again in 1859 as the Univ. of New Brunswick.

**CONSTITUTION.** The provincial govt. appoints the pres. and a majority of the governing body, called the senate, of which the minister of educn. and the chief supt. of educn. for the province are *ex-officio* members. The pres. is pres. of the corporation and of the fac. The univ. council consists of the pres., 6 deans, librarian, athletics dir., nursing dir., 2 members elected from facs. of arts, sci., engin., for., law and from creative arts etcee.

**INCOME.** \$1,367,500 (principal sources : student academic fees, 38.4 per cent. ; provincial govt. grants, 17.9 per cent. ; provincial, 34.7 per cent. ; res., 1.9 per cent. ; gifts other than res., 5 per cent.).

**FACULTIES AND DEANS.** *See* p. 251. The fac. of law was transferred from St. John to Fredericton in 1959.

**LIBRARY.** 100,000 vols. Sp. collections : Rufus Hathaway collection of Canadian lit. ; Visc. Bennett papers ; Rt. Hon. Bonar Law papers ; Earl Lloyd George papers ; Kipling atlas.

**LABORATORIES.** Biol., chem., engin., for., for. biol. (incl. federal soil survey lab.), geol., phys., psychol. ; 7000-acre forest tract for forestry field work.

**MUSEUMS, ETC.** Geol. museum ; museum of historical documents on early hist. of N.B. ; observatory telescope with 6-inch clear aperture.

**ADMISSION.** *See* Appendix II.

**FIRST DEGREES.** 4 yrs.—BA gen., hons. ; BSc gen., hons. ; BPE (phys. educn.) ; BBA (bus. admin.) (2 yrs. for approved grads.). 3 yrs.—BT, for those who intend to enter elem. teaching (open to students who have obtained 1st class licence after completing satisfactorily 1 yr. in approved teacher trg. inst.) ; industrial (3 yrs. open to students who have graduated from N.B. Tech. Inst., ind. teachers' trg. div. with 1st class licence). 4 yrs.—BSc in nursing. 5 yrs.—BSc in civil, electr., mech. engin. ; BSc in for.

BA hons. may be taken singly in biol. ; singly, or in combination with hons. in another subj., in : chem., econ., Engl., French, German, hist.,

maths. ; or, only in combination with hons. in another subj., in : anthropol. & sociol., educn. pol., philos., Latin, Greek, geol., phys., psychol. BSc hons. may be taken in biol., chem., geol., maths. or phys.

**OTHER COURSES.** Students who complete a 3-yr. course in chem. engin. or mining engin. at the univ. may be admitted to 4th yr. of 5-yr. BE course at Nova Scotia Tech. Coll. and other univs.

**HIGHER DEGREES.** BCL, 3 yrs. from BA or BSc. BEd, 1 yr. from BA or BSc. MEd, MA (in classics, econ., Engl., French, German, hist., pol. sci., psychol.), MSc (in biol., chem., geol., maths., phys.), MSc in for., 2 yrs. from corresponding bachelor's degree. MSc in civil or electr. engin., not less than 1 yr. from corresponding bachelor's degree. PhD (in chem.), at least 3 yrs. from bachelor's degree. All degrees open to grads. of recognized univs.

**HONORARY DEGREES.** DCL, DLitt, DSc, LL.D.

The univ. does not award EXTERNAL DEGREES.

**RESEARCH.** Facilities for postdoctoral res. in biol. and chem.

**FEES.** Tuition, annual : arts, bus. admin., \$360 ; educn., \$310 ; engin., \$455 ; for., \$420 ; law, \$340 ; sci., \$390 ; teaching, \$310 ; phys. educn., \$335 ; nursing, \$300. Higher degrees : 1st resident yr. as above ; each addnl. resident yr. : \$25.

**ACADEMIC YEAR.** Two terms : Sept. 19 to Dec. 18 ; Jan. 5 to May 7. Summer session : July–Aug.

**EXTENSION COURSES.** BA, BT and BEd degree courses given in Fredericton, St. John, and Moncton.

**SUMMER SESSION.** Instrucn. provided in all subsj. for BA, BT and BPE for teachers and others and certain postgrad. courses towards BEd, MA, MSc, MEd ; also professl. courses for teachers. The BA, BT, BEd and MA may be taken solely by summer session work. *Summer School Calendar* (March), available on request.

**CREATIVE ARTS CENTRE.** Provides non-credit courses by well-known artists in painting, drawing and design and sponsors loan exhibitions, concerts and plays throughout yr.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS** for Canadian students from outside N.B. who enter the univ. to read for a 1st degree : Harold Crabtree memorial scholps. (3), \$1000 over 3 yrs.,

preferably for study of for. Engin. special scholps. (5), \$4500 over 4 or 5 yrs.; Sir George E. Foster scholps. (16), \$1900 over 4 yrs.; Foundation Corp. Can. scholps. (5), \$2000 over 2 yrs.; General Motors scholps. (4), \$800 to \$8000 over 4 yrs. (value related to needs of individual); Inco scholp. (1), tuition and other fees plus \$300 p.a. (for study of geol., geophys., mining, metall., engin., or maths. & phys.); Industrial Acceptance Corp. scholp. (1), \$1000 over 2 yrs.; I.O.D.E. bursaries (12), \$1600 over 4 yrs.; Shawinigan scholp. in chem. (1), \$2000 over 4 yrs.; Union Carbide scholps. (4), \$2000 over 4 yrs.

PRINCIPAL 'OPEN' POSTGRADUATE AWARDS tenable at the univ. Beaverbrook U.K. scholps. (5), 4 of \$1500 p.a. in for. & 1 of up to \$2500 p.a. in chem., for grads. from U.K.; Sir James Dunn scholps. (3), \$1000 for 1 yr., open to grads. of Canadian univs. for postgrad. study & res. in geol.; DuPont Co. scholp., \$1500, open to teachers or prospective teachers in sci.; Imperial Oil res. fellowships (2), \$1250 p.a. for max. of 3 yrs., open to grads. of Canadian univs. for res. leading to a doctor's degree in chem. and certain other subjs.; Shell Oil fellowship, \$1800 for 1 yr., renewable for 2nd yr., open to grads. of Canadian univs. for res. in sci. or engin.

PLACEMENT BUREAU assists grads. and undergrads. to obtain pt.-time, vacation and permanent employment.

GRADUATES ASSOCIATIONS. Associated Alumni of the univ.; Alumnae Soc. of the univ.

RESIDENCE (for deans, see 'Admin. and other Staff', p. 253). For men: Lady Beaverbrook's Bldg. (85 students), \$500-\$550 p.a.; Aitken and Jones Houses (200 students) \$217 p.a.; meals available at Memorial Student Centre cafeteria. For women: Maggie Jean Chestnut House (100 students), \$550-\$575 p.a.

MILITARY TRAINING. Canadian officers trg. corps; univ. naval trg. corps; univ. naval trg. div.; Royal Canadian air force div.

STUDENT HEALTH. Tuberculosis survey of students each autumn.

STUDENTS REPRESENTATIVE COUNCIL has complete jurisdiction over all student affairs. MEMORIAL STUDENT CENTRE houses offices of S.R.C., Alumni Assocn., student clubs and organizations and contains common-rooms, restaurant and cafeteria.

ATHLETIC FACILITIES. Gymnasium, swimming-pool, ice-rink, athletic field.

PUBLICATIONS. *Calendar* (Jan.); *Summer School Calendar* (March); *Memorial vol. in commemoration of 150th anniversary*; students: *Brunswickian* (weekly), *Fiddlehead* (poetry), *Intervales* (short stories & poetry); *Up the Hill* (student yearbook).

UNIVERSITY BOOKSTORE.

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Bldg. fund, private & corporate donations, \$1,230,000.

MAJOR BUILDING DEVELOPMENTS. Central heating plant.

RESIGNATIONS. B. F. Macaulay (business manager), apptd. vice-pres., A. R. Williams Co., Toronto; Dr. Althea A. Warren (biol.), on marriage; W. P. Eames (maths.), to continue grad. work; N. C. Fletcher (psychol.); D. E. W. Lane.

HONORARY DEGREES. DCL—J. K. Mackay, lt.-gov. of Ontario. DLitt—W. M. Whitehill, dir., Boston Athenaeum. DSc—P. Dansereau, dean of sci., Montr. LLD—C. T. Bissell, pres., Toronto; G. A. Gaherty, pres., Montreal Engineering Co. Ltd.; J. E. Robbins, editor-in-chief, Encyclopedia Canadiana.

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1402	666
Women . . .	213	533
Total	1615	1199

Distribution by Faculties. Arts, 296; bus. admin., 125; educn., 3; engin. 618; for., 165; law, 27; phys. educn., 85; sci. 178. Postgrad., 86. Special, 4.

Included in the figures above are:—

Postgraduate students, 86.

New admissions, 540.

Students from other countries, 83. (U.K., 17; U.S.A., 16; Hong Kong, 16; W. Indies Fed., 9).

DEGREES AWARDED (1958-59). BA, 42; BA (hons.), 19; MA, 14; BCL, 7; BSc, 25; BSc (hons.), 5; MSc, 2; BBA, 20; BScinCE, 55; MScinCE, 1; BScinEE, 14; BScinME, 18; BScinFor, 27; MScinFor, 4; BEd, 14.

# NOVA SCOTIA AGRICULTURAL COLLEGE

Founded 1905

*Postal Address* : Truro, Nova Scotia, Canada

*Cables and Telegrams* : Nova Scotia Agricultural College, Truro, Nova Scotia

*Telephone* : Truro 467

PRINCIPAL—K. COX, BSA *Tor.*, MSA *McG.*

VICE-PRINCIPAL—J. E. SHUH, BSA *Tor.*, MSc *McG.*

REGISTRAR—P. COX, BA *Acad.*, MA *Tor.*

LIBRARIAN—R. H. STEVENSON, BA BSc *Mt.All.*

BUSINESS MANAGER—R. F. MACÉWAN

SECRETARY—LOLITA C. DEWAR

## TEACHING STAFF

### Agricultural Engineering

Milligan, D. C., BSc(Agr) *McG.*

Henry, C. E., BSc(Agr) *McG.*

MacNevin, M. C., BSc(Agr) *McG.*

Townsend, G. E., BSc(Agr) *McG.*

### Agronomy

Cox, K., BSA *Tor.*, MSA *McG.*

Shuh, J. E., BSA *Tor.*, MSc *McG.*

Slater, D. T., BSc(Agr) MSc *McG.*

Mahoney, J. F., BSc(Agr) *McG.*, MSA *Tor.*

### Animal Husbandry

Curtis, S. L., BSA *Tor.*, MSc *Mass.*, PhD *Minn.*

Hamilton, P. Y., BSc(Agr) *McG.*, MSc *Maine*

Cox, D. S., BSc(Agr) *McG.*

Huggard, R. J., BSc(Agr) *McG.*

### Apiculture

Karmo, E. A., BSc(Agr) *Tartu*

### Botany and Bacteriology

Roland, A. E., BA *Acad.*, MA *Tor.*, PhD *Wis.*

Palfrey, G. D., BSc(Agr) *McG.*

### Chemistry

Smith, G. R., MSc *Dal.*, PhD *McG.*

Milligan, J. E., BSc(Agr) *McG.*

Langille, W. M., BSc *Acad.*, MSc *McG.*

Hilchey, J. D., BSc(Agr) MSc *McG.*

Booker, J. R.

### Co-operation, Rural Sociology

Scammell, F. E., BSc(Agr) *McG.*

### Dairying

Murray, T. A., BSA *Manit.*

### Economics, Farm Management

Jenkins, W. A., BSc(Agr) *McG.*,

MSc(Agr) *Corn.*

Grant, W. V., BSc(Agr) *McG.*, MSc *Conn.*

Byers, D. M., BSc(Agr) *McG.*

### English

Cox, P., BA *Acad.*, MA *Tor.*

### Entomology

Neary, M. E., BSc(Agr) *McG.*

Vickery, V. R., BSc(Agr) MSc *McG.*

### Forestry

Maybee, G. R., BScF *New Br.*

### Horticulture

Collins, C. M., BSA *McG.*, MSA *Tor.*

Jankov, N. V.

Kinsman, G. B., BSc(Agr) *McG.*,

MSc *New Hampshire*

MacLaughlin, H. A. L., BSc(Agr) *McG.*,

MSc *Corn.*

### Mathematics and Physics

Stevenson, R. H., BA BSc *Mt.All.*

### Poultry

MacDonald, D. R., BSc(Agr) *McG.*

### Veterinary Science

Hancock, E. E. I., DVM *Tor.*

## GENERAL INFORMATION

Founded in 1905. Successor to Sch. of Agric. and Sch. of Hortic.

The coll. is fully supported financially by the province of Nova Scotia. The majority of the teaching staff are also members of the staff of the dept. of agriculture and marketing of the province in which the control of the coll. is vested. Staff members do not have academic titles (such as Prof. or Lectr.).

**DEGREE COURSE.** Students who enrol for the degree course complete the first 2 yrs. of the 4-yr. course at the coll. and receive a dipl. Their 3rd and 4th yr. studies are completed at the instn. of their choice, *e.g.* Macdonald Coll. or the Ontario Agric. Coll. Students who have completed the 2-yr. course are admitted to the 2nd yr. at Ontario Vet. Coll.

**ADMISSION.** *See* Appendix II.

**DIPLOMA COURSE.** 2-yr. farm course, vocational in nature. Instrucn. in elementary sci., practical subjs. and citizenship.

**FEES.** Tuition—Canadians free, non-Canadians, \$50 p.a. Other fees—\$23 to \$27 p.a.

**FACILITIES.** Main bldg., science bldg., hortic. bldg. (with greenhouses), dairy bldg., agric. engin. bldg., dormitory and 300-acre farm.

**STUDENTS' COUNCIL,** of which all students are members, has its affairs administered by an elected executive; fac. members serve as advisors. Controls all student business.

**PUBLICATIONS.** By the coll.: *Calendar* (annual). By the students' council: *Agricola* (Year Book).

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	128	—
Women . . .	3	—
	—	—
Total . . .	131	—

Distribution by Faculties. *Agric.*, 131.

*Included in the figures above are :—*

Postgraduate students, nil.

New admissions, 78.

Students from other countries, 9. (Country from which largest number came: W. Indie Fed., 5).

**DIPLOMAS AWARDED (1958-59).** DipAgric, 30.

# NOVA SCOTIA TECHNICAL COLLEGE\*

Founded 1909

*Postal Address* : Halifax, Nova Scotia, Canada  
*Cables and Telegrams* : N.S. Tech., Halifax, Nova Scotia  
*Telephone* : Halifax 3-1227

CHAIRMAN OF THE BOARD OF GOVERNORS—R. L. STANFIELD, Minister of Education, Province of Nova Scotia

PRESIDENT—J. HOOGSTRA滕, BSc *Manit.*, MSc *Mich.*, MEIC

REGISTRAR—J. B. TERNAN, BE, MEIC

BURSAR—C. R. LLOYD

LIBRARIAN—D. A. REDMOND, BSc *Mt.All.*, BLS *McG.*, MS in *LS Ill.*

## TEACHING STAFF

[† = Part-Time]

### Chemical Engineering

Foran, M. R., MSc *Sask.*, PhD *McG.*, MEIC  
 Prof., Hd. of Dept.  
 Harris, I. J., BSc *Lond.* Asst. Prof.  
 Steeves, A. E., BSc *Mt.All.*,  
 MSc *McG.*, MEIC Asst. Prof.  
 1 Lectr.

Lindsay, J. F., BSc *Glas.* Asst. Prof.  
 1 Lectr.

### General Studies

Heaps, H. S., BSc *Manc.*, MA *Tor.*  
 (Engin. Maths.) Assoc. Prof.  
 Jackson, F., BSc *Lond.* (Engin. Maths.) Lectr.  
 Jones, R. O., MD CM *Dal.*  
 (Appl. Psychol.) †Lectr.  
 MacCormack, J. R., MA *Dal.*  
 (Contemp. Affairs) †Lectr.

### Civil Engineering

Meyerhof, G. G., PhD DSc *Lond.*, MEIC  
 Prof., Hd. of Dept.  
 Mazur, S. J., PhD *Lond.*, MEIC Assoc. Prof.  
 March, J. W., BSc, MEIC Assoc. Prof.  
 Vaughan, V. E., MSc *Maryland*, BE,  
 MEIC Asst. Prof.  
 Hamilton, P. C., BSc, MEIC Asst. Prof.  
 Biggar, D., MSc *Qu.*, MEIC Asst. Prof.  
 1 Lectr.

### Mechanical Engineering

Baker, M. L., BSc, MEIC Prof., Hd. of Dept.  
 Cochkanoff, O., BSc *Br.Col.*,  
 MASC *Tor.* Assoc. Prof.  
 Ahern, W. K., BE Asst. Prof.  
 Cliffe, J. B., BSc *Manit.* (on leave) Asst. Prof.  
 Warner, J. L., SM *M.I.T.*, BE Asst. Prof.  
 Weld, G. B., MEng *Sheff.*, BE Asst. Prof.

### Electrical Engineering

Burchill, G. H., BSc Hon. DEng, MEIC  
 Prof., Hd. of Dept.  
 Vail, G. F., CD, MASC *Tor.*, BE, MEIC  
 Assoc. Prof.  
 Grant, C. E., MEIC Asst. Prof.  
 Dugan, K. F., BE Asst. Prof.

### Mining and Metallurgical Engineering

Cameron, E. L., MEng *McG.*, MEIC  
 Prof., Hd. of Dept.  
 Knop, O., DSc *Laval* Assoc. Prof.  
 Collins, G. A., DIC, MA *Wash.*, MEIC  
 (on leave) Asst. Prof.

## ADMINISTRATIVE AND OTHER STAFF

Placement Officer & Alumni Sec. : J. B. Ternan, BE, MEIC.

## ASSOCIATED UNIVERSITIES

ACADIA, DALHOUSIE, MEMORIAL (NEWFOUND-  
 LAND), MOUNT ALLISON, ST. FRANCIS XAVIER,  
 St. MARY'S and NEW BRUNSWICK (see separate  
 entries). Students who have completed the 3-yr.

course in engin. of one of these univs. may be  
 admitted direct to the 4th yr. of a degree course  
 at the coll.

\* Additional Member of the Association of Universities of the British Commonwealth

## GENERAL INFORMATION

The Nova Scotia Technical College was authorized by an act of the provincial legislature in April 1907.

The erection of the main bldg. proceeded during 1908 and the coll. was opened, with courses in civil, electr., mech. and mining engin., in the autumn of 1909. The 1907 act relating to technical educn. was repealed in 1947 and two new acts were passed by the provincial legislature placing engin. educn. and secondary technical educn. under separate heads. Thus the coll. now confines its activities to work of univ. level only. Under the new Nova Scotia Technical College Act authority was given for the establishment of grad. studies and res., and provision was made for close co-operation between the coll. and the Nova Scotia Research Foundation. A further expansion in 1947 was the addition of the dept. of chem. and metall. engin. In 1953 the dept. of metall. engin. was transferred to the jurisdiction of the dept. of mining engin., thus becoming the dept. of mining and metall. engin.

**CONSTITUTION.** The coll. is governed by a bd. of governors under the chairmanship of the minister of educn. of N.S., a senate under the chairmanship of the pres. of the coll., and the fac. under the chairmanship of the pres. In general the fac. reports to the senate, and the senate reports to the bd. of governors on all matters pertaining to the operation of the coll., and the bd. reports annually to the lt.-governor in council. The associated univs. are represented on the bd. by their presidents and on the senate by the hds. of their respective depts. of engin.

**INCOME** (1958-59). \$406,709 (prov. of N.S., 56 per cent.; govt. of Canada, 15 per cent.; fees, etc., 29 per cent.).

**COLLEGE PRECINCT.** The coll. campus is located near the centre of Halifax on Spring Garden Rd. and Barrington St. The present plan of devel. is to bring as many as possible of the individual depts. under one roof.

**LIBRARY.** 16,000 vols.

**LABORATORIES.** Civil, electr., mech., mining, chem. and metall. engin.

**ADMISSION.** See 'Assoc. Univs.' (p. 257) and Appendix II.

**Advanced Standing.** Any person may be admitted to advanced standing in the coll. by passing such exams. as are deemed necessary by the coll. faculty, or by presenting such certs. of previous records of study or experience as shall satisfy the fac.

**Special Students.** Persons without the necessary entrance qualifs. may be permitted to take a limited no. of regular courses for which no credit towards a degree will be granted.

**FIRST DEGREES.** BE, BE with distinction, BE hons. (civil, electr., mech., mining, chem., metall.), 2 yrs., after 3 yrs. at assoc. univ. (see 'Assoc. Univs.' above and Appendix II).

**HIGHER DEGREE.** ME, 1 yr. full-time or 3 yrs. pt.-time, open to grads. with high scholastic standing from recog. engin. degree-granting instns.

**HONORARY DEGREE.** DEng.

**RESEARCH.** Facilities available for res. up to level of master of engin. degree in most fields of civil, electr., mech., mining, chem. and metall. engin.

**STUDY LEAVE.** No regular practice, but staff members are granted leave of absence after a no. of yrs.' service to pursue further studies. In such cases the coll. makes financial arrangements with the individuals concerned.

**GENERAL FEES.** Tuition, \$350 p.a.; grad. studies, \$125; spring courses, \$40; students' soc., \$25 p.a.

**ACADEMIC YEAR.** Sept. to May; 2 terms of 14 wks. each.

**PRINCIPAL 'OPEN' AWARDS** (undergraduate). American Soc. for Metals, \$500; Internat. Nickel Co., \$1200; Aluminum Co. of Canada, \$600; Northern Electric scholp., \$500; N.S. Road Builders Assoc. bursary, \$200; Coll. loan fund to max. of \$500 p.a.

**ALUMNI ASSOCIATION** is composed of hon. and active members. Governing body is an executive cttee. elected by the annual meeting in Nov. Bldg. fund cttee. apptd. by the assocn. is at present completing drive for \$300,000 to build a gymnasium on campus.

**PHYSICAL TRAINING.** Gymnasium.

**MILITARY TRAINING.** The *Joint Services Trg. Scheme* was introduced in 1946. The programme extends over 3 yrs. and consists of a series of lectures during the coll. yr. followed by from 12 to 22 weeks posting at a trg. sch. during summer vac. The summer trg. is taken in the sp. branch of the service selected by the trainee, who is recruited at an assoc. univ. and completes trg. at N.S.T.C. Under the *Regular Officer Trg. Plan* students may apply for enrolment in the regular forces of any service. The dept. of natnl. defence pays candidates' fees and candidates are also paid while at the coll.; they agree to serve for min. of 3 yrs.

**STUDENTS' SOCIETY.** The recognized means of communication between the fac. and the student body. It is designed to co-ordinate and control all extra-curricular student activities. Every student is a member.

**PUBLICATIONS.** *Calendar* (spring); *Tech. Flash* (yearbook); *Alumni Bulletin* (4 edns. p.a.).

## THE YEAR 1959

**50TH ANNIVERSARY.** In Aug. 1959 the coll. commemorated the 50th anniversary of its formal opening with an alumni reunion and a special convocation at which 3 prominent grads. were honoured (*see below*).

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. approaching completion*: \$830,000 admin. bldg.; library; lecture room and labs. (attached to civil engin. bldg.).

**RESIGNATIONS.** Asst. Prof. H. A. Ripley (mech. engin.).

**HONORARY DEGREES.** *DEng* (awarded at sp. convocation on Aug. 13, 1959)—G. H. Burchill, prof., hd. of dept. of electr. engin., N.S.T.C.; D. M. Collingwood, former sr. reservoir engineer, Sun Oil Co., Dallas; E. E. Orlando, vice-pres., Apparatus & Industrial Sales, Canadian Westinghouse Co. Ltd. (Awarded at regular convocation in May 1960)—J. L. Cavanagh, pres., Malagash Salt Co., Pugwash, N.S.; G. A. Gaherty, pres., Montreal Engin. Co.

## Statistics

## STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	317	7
Women . . .	2	—
Total . . .	319	7

Distribution by Faculties. *Engin.*, 326.

*Included in the figures above are* :—

Postgraduate students, 7.

New admissions, 159.

Students from other countries, 31. (Countries from which largest numbers came: Hong Kong, 8; W. Indies Fed., 6).

**DEGREES AWARDED (1958-59).** BE(Civil), 35; BE(Electr), 28; BE(Mech), 18; BE(Chem), 7; BE(Mining), 6; BE(Metall), 1; BE(Electr), with distinction, 2; BE(Mech), with distinction, 1; BE(Civil), hors., 2; BE(Electr), hors., 2; BE(Mech), hors., 5; ME, 5. *Total number of first degrees awarded by N.S.T.C.*, 107.



# UNIVERSITY OF OTTAWA\*

Founded 1848 ; incorporated as a University 1866

Postal Address : 75 Laurier Avenue East, Ottawa, Ontario, Canada

Cables and Telegrams : University of Ottawa, Canada

Telephone : Central 5-6751

VISITOR—The Hon. J. K. MacKAY, DSO, VD, LLD, Lieutenant-Governor of Ontario  
 APOSTOLIC CHANCELLOR—H.E. the Most Rev. M.-J. LEMIEUX, Archbishop of Ottawa  
 RECTOR—Very Rev. H. JÉGARÉ, MSocSc *Laval*, DSocSc *Lille*, BA LLD *Car.*  
 VICE-RECTORS—Rev. A. CARON, PhD STD JCD ; Rev. M. BÉLANGER, BA *Montr.*, PhL *Rome*, STD  
 SECRETARY-GENERAL AND REGISTRAR—Rev. G. GAGNON, MA PhL  
 TREASURER—Rev. A. L. WALKER, MA PhL STL  
 COUNCILLORS—Rev. J. MONCION, BA ; Rev. M. GIROUX, MA PhL STD  
 CONTROLLER—Rev. L. THERRIEN, BA DipIndAcc  
 LIBRARIAN—Rev. P.-E. DROUIN, MA *Montr.*, PhL *Pontif. Athen. Angelicum*, MLS *Col.*, STL

## TEACHING STAFF

[† = Part-Time]

### Accounting

Trudeau, Rev. R., MCom *Tor.*, BA *Montr.*,  
 PhL Prof., Hd. of Dept.  
 Maheu, R., LScCom *Montr.*, BA Asst. Prof.  
 Boulanger, C., BCom MSc *Laval*, CA Lectr.  
 Lafrenière, C., MCom *Laval* Lectr.  
 Latendresse, R., BCom †Lectr.  
 Portugais, G. †Lectr.

### Anatomy

Auer, J., MD DSc *Ley.* Prof., Hd. of Dept.  
 Bohatirchuk, F., MD DSc *Kiev* Assoc. Prof.  
 Mitchell, R., MA MB ChB *Glas.* Asst. Prof.  
 Szabo, J., MD *Pécs* Lectr.  
 Hall, Elizabeth A., MD *Tor.* Instr.  
 Vogelfanger, I. J., MD DMedSc *Lwow*  
 Res. Assoc.

### Arabian

Zeitoun, L., BA MSc †Lectr.

### Art

de Caso, J., BPh LèsL *Paris* (on leave) Lectr.

### Astronomy

Hargreaves, J. (on leave) Lectr.

Bacteriology, see Medicine

### Biochemistry

Ettori, J., MD *Paris* Prof., Hd. of Dept.  
 D'Iorio, A., BSc PhD *Montr.* Prof.  
 Ryan, M. T., MSc *N.U.I.*, PhD *McG.* Asst. Prof.  
 Scoggan, Sybil H., MSc *McG.*, PhD Lectr.  
 Robertson, Mrs. Florence, MSc *McG.* Instr.

### Biology

Dugal, L. P., OBE, BA MSc *Laval*, PhD *Penn.*,  
 FRSCan Prof., Sec. of Fac., Hd. of Dept.  
 Des Marais, A., BA LSc *Montr.*, PhD *Laval* Prof.  
 Dodson, E. O., BA *Car.*, PhD *Calif.* Prof.  
 Vladykov, V. D., PhD *Prague* Prof.  
 LaHarn, Q., BA *Ripon*, MSc *Marquette*  
 Assoc. Prof.  
 Legault, Rev. R., MSc *C.U.A.*, BA STB  
 Assoc. Prof.  
 Perrault, Rev. M., MSc *Corn.*, LSc *Laval*,  
 BA PhL STL Asst. Prof.  
 Vaillancourt, J., BScA *Laval* Asst. Prof.  
 Arnold, J. W., BA MSc PhD *W.Ont.* †Lectr.  
 Labelle, R., BA PhL †Lectr.  
 Munro, D., BA *Br.Col.*, PhD *Tor.* †Lectr.  
 Rinfret, R., MA PhL STL †Lectr.  
 Stevenson, I. L., MSA *Tor.*, PhD *Lond.* †Lectr.  
 Weinberger, Mrs. Pearl, MSc *Manc.* †Lectr.

### Botany

LeBlanc, Rev. F., BA PhD *Montr.*,  
 MSc *Iowa* Asst. Prof.  
 Weinberger, Mrs. Pearl, MSc *Manc.* †Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Business Administration**

Gallant, F. W., BCom *Qu.*, MBA *Boston* Lectr.  
 Stock, E. H., BSc *W.Ont.*, MBA *Syr.* †Lectr.

**Canon Law**, see below

**Chemistry**

Lemieux, R.-U., BSc *Alta.*, PhD *McG.*  
 Prof., Hd. of Dept.  
 Gendron, P.-R., BSc PhD *Montr.*, FCIC Prof.  
 Laidler, K. J., DSc MA *Oxon.*, PhD *Prin.* Prof.  
 Anet, F. A. L., MSc *Syd.*, DPhil *Oxon.*  
 Assoc. Prof.  
 Conway, B. E., DIC, BSc PhD *Lond.* Assoc. Prof.  
 Belleau, B., BSc *Montr.*, PhD *McG.* Assoc. Prof.  
 Godin, C., BScA DSc *Laval* Asst. Prof.  
 Fraser, R., MSc *W.Ont.*, PhD *Ill.* Asst. Prof.  
 Fraser, R. T. M., MSc *Wellington*,  
 PhD *Chic.* Asst. Prof.  
 Westland, A. D., BSc MA PhD *Tor.* Asst. Prof.  
 Ingraham, Mrs. Eleanor, BA *Qu.* Lectr.  
 Bernstein, H. J., MA PhD *Tor.*, FRSCan  
 †Lectr.

Davidson, D. W., MSc *New Br.*,  
 PhD *Brown* †Lectr.  
 Jones, N. C., PhD DSc *Manc.*, FRSCan †Lectr.  
 Morrison, J. A., MSc *Alta.*, PhD *McG.*,  
 FRSCan †Lectr.  
 Bidinosti, D., MSc *Manit.*, PhD *McM.* Fellow

**Civil Law**

Fauteux, Justice G., LLL DCL *McG.*, LLD  
*Laval, Sudbury & Ott.* Dean of Fac.  
 Ste-Marie, Justice P., BA DCL *McG.*, LLD  
 †Lectr.  
 Avlen, J. A., BA LLL †Lectr.  
 Aazard, P., LLD *LèsL Paris* Lectr.  
 Bédard, R., QC, LLL *Montr.*, BA PhL Lectr.  
 Bertrand, J., BA LLB †Lectr.  
 Boucher, J., BA LLL †Lectr.  
 Brière, G., BA LLL Lectr.  
 Brisset, J., BA LLL †Lectr.  
 Cadieux, M., BA LLL †Lectr.  
 Caron, G., BCL *McG.*, BA †Lectr., Sec. of Fac.  
 Chaput, R., DDCivil *Pontif. Athen. Lateran*,  
 BA LTh DDC Lectr., Regent of Fac.  
 Coderre, C., BA LLL *Montr.*, LL.D †Lectr.  
 Couture, L.-A., LLL *Laval*, MA LPolSc  
 PhL †Lectr.  
 Des Rivières, F., BA LLL †Lectr.  
 Ducharme, L., BA PhL LLL Lectr.  
 Bergeron, V., BA LLL Lectr.  
 Boland, J. D. C., BA *Tor.* †Lectr.  
 Chevalier, F., BA *Laval*, LLB *Montr.* †Lectr.  
 Cole, C., BA LLM †Lectr.  
 Coutu, J.-C., BA LLL Lectr.  
 Dumoulin, J., BA LLD *Laval* †Lectr.  
 Frenette, O., BA *Car.*, BCL *McG.*, LLD †Lectr.  
 Fyfe, M. H., BA *Oxon.* †Lectr.  
 Galligan, P., BA †Lectr.  
 Hambling, D. †Lectr.  
 Hendry, J. McL., BA LLB *Dal.*,  
 LLM *Harv. & Mich.*, SJD *Mich.* †Lectr.  
 Hubbard, H. A., BA †Lectr.

Ippolitto, B., LLD *Bordeaux* Lectr.  
 Lalonde, M., LLL *Montr.*, BA *Montr. &*  
*Oxon.* †Lectr.  
 Maltais, P., BA LLL †Lectr.  
 McKercher, R. H., BA LLB *Sask.*,  
 LLM *Harv.* †Lectr.  
 Pharand, A. D., LL.M *Dal.*, LLD *Paris* Lectr.  
 Quain, H., BCom BCL *McG.*, BA †Lectr.  
 Quain, R., BCom BCL *McG.*, BA †Lectr.  
 Farley, L., BA LLL †Lectr.  
 Farley, R., BA LLL †Lectr.  
 Favreau, G., BA LLB *Montr.* †Lectr.  
 Feeney, T. G., BA LLB *Dal.* Lectr.  
 Flour, J., LLD *Caen* †Lectr.  
 Foote, A. L., BA LLB *Dal.*, BCL *Oxon.* Lectr.  
 Garon, A., BA LLL †Lectr.  
 Gobeil, C. E., QC, BA PhL LLL *Laval* †Lectr.  
 Godbout, O., BA LLB †Lectr.  
 Hewitt, A. T., LLB †Lectr.  
 Hughes, R., QC, LLB †Lectr.

Latrémouille, Rev. R., DDC  
 LDCivil *Pontif. Athen. Lateran*, BA DPH  
 †Lectr.  
 Lesage, A., BA LLL †Lectr.  
 Martin, J. C., BA *Manit.*, LLB *Sask.* †Lectr.  
 Massé, P., BCom †Lectr.  
 Ménard, R. L., BA PhB LLB BSc †Lectr.  
 Gouin, L.-M., LLD †Lectr.  
 Morisset, G., MA LLL †Lectr.  
 Ollivier, M., QC, BA LLL *Laval*,  
 LL.D *Montr.*, FRSCan †Lectr.  
 Read, J. E., QC, BA *Dal. & Oxon.*,  
 LL.D *Dal. & McM.*, DCL *Oxon.* †Lectr.  
 Ryan, J. L., BA *St.F.X.*, BCL *New Br.* Lectr.  
 Tache, Hon. A., BA LL.D †Lectr.  
 Thorson, D. S., BA †Lectr.  
 Toupin, L., BA LLL †Lectr.  
 Paquin, M., BA LLL †Lectr.  
 Paradis, J., BA PhL LLL †Lectr.  
 Stein, C., QC, BA PhL LLL *Laval* †Lectr.  
 Taschereau, Hon. R., BA LLB *Laval*,  
 LL.D *Laval, Montr. & Ott.* †Lectr.

**Classics**

Gareau, Rev. E., PhB *Rome*, LLB *Laval*,  
 DU *Paris*, BA ThL Prof., Hd. of Dept.  
 Pucci, P., Dèsl *Pisa* Asst. Prof.  
 Theubet, L., LLB *Paris* (on leave) Asst. Prof.  
 Ament, E. J., MA PhD *St.Louis* Lectr.  
 Lozeau, A. R., BEd MA *Duqueme* Lectr.  
 Maloney, J. G., BA LLB *Laval* Lectr.  
 Roussel, L. D. M., MA *Lond.* Lectr.  
 Russell, K., MA Lectr.  
 Wells, C. M., MA *Oxon.* Lectr.

**Commercial Law**

Anka, M., BCom †Lectr.  
 Maltais, P., BA LLL †Lectr.

**Drawing**

Proulx, M.-G., PDA *E.T.H. Zürich* Asst. Prof.

**Economics**

Firestone, O. J., MAEcon *McG.*,  
 PhD *Vienna* Prof.

Brault, Rev. F., PhD *St. Louis*, MA STL

Assoc. Prof.

Judek, S., MA *St. And.*, PhD *Edin.*

Assoc. Prof.

Boreham, G. F., MA

Asst. Prof.

Martin, G., MAPHil *Montr.*,

MA(Econ) *Lond.*

Asst. Prof.

Lamontagne, M., MA *Harv.*

†Lectr.

May, S., MA

†Lectr.

Schonning, G., PhD *Tor.*

†Lectr.

Stukel, A., MSc *Ijubljana*, PhD *Bologna*

†Lectr.

Taylor, D. C., MA *Tor.*

†Lectr.

### Education and Psychology

Shevenell, Rev. R., MA PhD

Prof., Dir., Sch. of Educn. & Psychol.,  
and Chairman, Sch. of Grad.  
Studies

Chagnon, M., MA PhL PhD

Prof.

Dayhaw, L. T., PhD *Louvain*

Prof.

Paplauskas-Ramunas, A., MLitt *Kaunas*,

PhD *Vienna*

Prof.

Sidlauskas, Agathe, MA *Kaunas*, PhD *Milan*

Prof.

Szyrski, V., MD *Warsaw*, PhD,

FRCPCan

†Prof.

Beniskos, J.-M., MA PhD

Asst. Prof.

Celovski, Mrs. Angelika, PhD *Heidel.*

Asst. Prof.

Chagnon, G., BA BPh MPs

Asst. Prof.

Isabelle, L., BA MEd

Asst. Prof.

Pilon, Marguerite, MPs

Asst. Prof.

Andrew, Rev. Sister Mary, BA MEd

Lectr.

Barry, W. F., BA MPs

Lectr.

Lavigne, Rolland, BA BPh

Lectr.

Desjarlais, L., MA PhD

†Lectr.

Earle, J., MA PhD

†Lectr.

Gillespie, J., Hon. BA *W. Ont.*

†Lectr.

Renaud, Rev. A., MEd *Tor.*, PhL STL

†Lectr.

**Embryology**, see Histol. and Embryol.

### Engineering

Rowe, R., BEng *McG.*

Asst. Prof.

Ahmed, F. R., BSc *Alexandria*, BSc

PhD *Leeds*

†Lectr.

Beauchamp, J., BEng *McG.*

†Lectr.

Bleakney, H., BSc *Qu.*

†Lectr.

Smialowski, A. J., MSc *Lwow*

†Lectr.

Smith, E., MA PhD *Camb.*

†Lectr.

### Engineering, Chemical

Lu, B. C. Y., MAsc PhD *Tor.*

Assoc. Prof.

Basmadjian, D., BSc *Zür.*, MAsc

PhD *Tor.*

Asst. Prof.

Mann, R. S., MSc *Alld.*, PhD *Hull*

Asst. Prof.

Casey, E. J., BSc *St. F. X.*, PhD *C. U. A.*

†Lectr.

Harvey, E. A., BSc PhD *Lond.*

†Lectr.

Lania, R., BScA MSc

†Lectr.

### Engineering, Electrical

Glinski, G. S., DiplIng DIng *Warsaw*

Prof., Hd. of Dept.

Galbraith, R. A. H., OBE, CD, BASc

MA *Tor.*

Prof.

Beauchesne, L.-A., BA BPh BScA *Laval*,

MSc, MEIC

Assoc. Prof.

Celinski, O.

Asst. Prof.

Marsh, J. V., BSc(Eng) *Lond.*

Asst. Prof.

Makower, Z., BSc *Manc.*

Lectr.

Dietiker, W., BASc *Br. Col.*, PhD *Manc.*

†Lectr.

Embleton, T. F. W., BSc PhD *Lond.*

†Lectr.

Shaw, E. A. G., BSc PhD *Lond.*

†Lectr.

Thiessen, G. J., MSc PhD *Col.*

†Lectr.

Wierzbowski, S. W., DiplIngElec *Lond.*

†Lectr.

### English Language and Literature

O'Grady, E., MA PhD

Prof., Hd. of Dept.

McGuinty, D. J., BCom MA *Colgate*

Assoc. Prof.

Marcotte, P., MA *St. John's (N. Y.)*, PhD

Assoc. Prof.

Ryan, Mrs. Mariana, MA *Tor.*, DU *Paris*

Asst. Prof.

Stock, L., BA PhL

Asst. Prof.

Robinson, B. L., MA *Col.*, DU *Paris*

Asst. Prof.

Campbell, A. P., BA *Laval*, MA

PhD *Fordham*

Lectr.

Petraroja, S. D., MA(Ph)

Lectr.

Curley, J., BA *St. Dun.*, MA PhD

†Lectr.

Grace, J. W., MA *C. U. A.*, PhD *Mich.*

†Lectr.

Hubbard, G., BA

†Lectr.

### French

Julien, Rev. B., PhL *Pontif. Athen. Angelicum*,

LèsL *Paris*, BA STL Prof., Hd. of Dept.

Hamel, Rev. C., BA PhL STB

Assoc. Prof.

Spekkens, J., MA DLitt *Nijmegen*,

CertLit&Phon *Paris*

Assoc. Prof.

de Chantal, R., BA *McG.*, LèsL *Paris*

Asst. Prof.

Ménard, J., BA LèsL *Laval*, DU *Paris*

Asst. Prof.

Robert, B., MA PhD *Montr.*

Asst. Prof.

Robidoux, Rev. R., PhL STL *Rome*,

LèsL *Laval*

(on leave) Asst. Prof.

Wyczynski, P., LèsL *Lille*, PhD

Asst. Prof.

Mailhot, C., LPh Dèsl *Rome*

Asst. Prof.

Cloutier, Cécile, LèsL Dipl'd'étSup *Laval*

Lectr.

Krupka, Mrs. Laure, BèsL *Paris*

Lectr.

Lalande, G., BA

Lectr.

Leclerc, J. A., BA

Lectr.

Lesieur, A., BA BPed *Montr.*, MA(Ed)

Lectr.

Beaudet, A., BA

†Lectr.

Brule, O., BA

†Lectr.

Saint-Jean, Rev. O., BA CertLittFr

†Lectr.

Vezina, Miss Gaetane

†Lectr.

### Geodesy

Saint-Denis, R., BA *Montr.*, BARp

BScA *Laval*

Prof., Asst. Dean

### Geography

Zaborski, B., PhD *Warsaw*

Prof., Hd. of Dept.

Jost, T., MPh *Cracow*, PhD *Montr.*

Assoc. Prof.

Ray, D. M., BA *Manc.*

Lectr.

Vicero, R. D., BA *McM.*, MS *Wis.*

Lectr.

Nicholson, N. I., BA MSc *W. Ont.*, PhD

†Lectr.

### Geology

Baird, D. M., BSc *New Br.*, MSc *Roch.*,

PhD *McG.*

Prof., Hd. of Dept.

Dineley, D. L., BSc PhD *Birm.*, FGS  
 Assoc. Prof.  
 Hogarth, D. D., MAsc *Tor.*, PhD *McG.*  
 Asst. Prof.  
 Sanchagrin, Rev. R., LSc *Laval*, MA *Br.Col.*,  
 BA Asst. Prof.

**German**

Freed, P., BCom †Lectr.

**Greek, see Classics**

**Histology and Embryology, see Medicine**

**History**

Frégault, G., Lèsl. *Montr.*, PhD *Loyola*  
 Hd. of Dept.  
 Thivierge, Rev. E., MA PhL STB Prof.  
 Mostovac, M., LLl. *Zagreb*, LLD *Rome*  
 Asst. Prof.  
 Cienciala, Anna M., BA *Liv.*, MA *McG.* Lectr.  
 Guimond, L., BPied MA *Montr.* Lectr.  
 Lebrun, R. A., BA *St. John's*, MA *Minn.* Lectr.  
 Vanasse, A. R., BA *Vermont*, MA  
 PhD *Montr.* Lectr.  
 Gillespie, J., Hon. BA *W.Ont.* †Lectr.

**Household Economics**

Sister Ste.-Marguerite-des-Vertus, MSc  
 Prof., Dir. of Sch.  
 Sister Ste.-Croix, BSc *Montr.* Lectr.  
 Sister Ste.-Jeanne-du-Sauveur, MA *Montr.*  
 Lectr.  
 Sister Marie-Solange, MA *Corn.* Lectr.  
 Sister Ste.-Lucie-de-Notre-Dame,  
 BScD *Laval* Lectr.  
 Saint-Hilaire, Suzanne, BA *Laval*,  
 MSc *Minn.* †Lectr.

**Italian**

Royal, Rev. E., Lèsl. *Laval*, LPh *Greg.*,  
 DTh Prof.

**Latin, see Classics**

**Library Science**

Morisset, Rev. A.-M., MlS *Col.*, BA JCL  
 Prof., Dir. of Sch.  
 Lomer, G. R., MA *McG.*, PhD *Col.*, FLA  
 Prof., Asst. Dir.  
 Ringrose, Enid, BA *McM.*, BLS  
 †Lectr., Asst. Librarian  
 Aubry, C., BA BLS *McG.* †Lectr.  
 Brown, J. E., BA *Alta.*, BLS *McG.*,  
 MA *Chic.* †Lectr.  
 Foster, Mrs. Thérèse †Lectr.  
 Gouthreau, Olive, MA BLS *McG.* †Lectr.  
 Lamb, W. K., MA PhD *Lond.*, LLD *Paris*  
 †Lectr.  
 Marteinson, Anna, BA MS *Col.* †Lectr.  
 Morton, Elizabeth, BA †Lectr.  
 Stephenson, L., MA BLS †Lectr.  
 Sylvestre, G., MA PhL, FRSCan †Lectr.

**Mathematics**

Linis, V., DiplMath *Latvia*,  
 MSc PhD *McG.* Prof., Hd. of Dept.  
 Helfenstein, H., PhD *E.T.H.Zürich*,  
 MSc *Zur.* Assoc. Prof.  
 Vachon, L., BA MCom *Montr.* Assoc. Prof.  
 van der Maas, G. J., DSc *Amst.* Assoc. Prof.  
 Grandchamp, Y., MSc *Montr.* Asst. Prof.  
 Tomiuk, D. B. J., BSc *Loyola*, MSc *McG.*,  
 PhD *C.U.A.* Asst. Prof.  
 Howland, J. L., MA *Tor.*, PhD *Harv.*  
 Asst. Prof.  
 Nadon, J., BCom Lectr.  
 Rukiewicz, M., DiplMaths'Techg *Warsaw* Lectr.  
 Mainwood, Joan, BSc *Lond.* †Lectr.  
 Carrier, L. M., BScA *Montr.* †Lectr.  
 Cloutier, R. J., BA MSc PhD *McG.* †Lectr.  
 Murphy, C. J., BSc *St.F.X.*, MA *Qu.* †Lectr.

**Mechanics**

Rowe, R., BEng *McG.* Asst. Prof.  
 Convey, J., MSc *Alta.*, PhD *Tor.* †Lectr.  
 Hayes, St.-C., BA *Dal.*, BSc *N.S.T.C.* †Lectr.

**Medicine, see below**

**Missiology, Institute of**

Champagne, Rev. J.-E., MissD *Rome*, MA  
 PhL STB Prof., Dir. of Inst.  
 Valentine, V., MA *Tor.* †Lectr.

**Music**

Martel, Rev. J., Dipl *Pontif.Inst.Mus.Sacr.*,  
 BA JCB Lectr.  
 Cournoyer, Rev. B., BA PhL STL †Lectr.  
 Latour, Rev. C., BA PhL STL †Lectr.  
 Aubé, I., BA LPh LTh †Lectr.

**Nursing**

Sister Madeleine-de-Jésus, MScEdInf  
 Prof., Hd. of Dept.  
 Forcier, Rev. G., MA PhD Regent  
 Stock, Joan, BScPHN Assoc. Prof.  
 Sister Elisabeth-Marie, BScEdInf Asst. Prof.

**Personnel Management**

Dennison, R., MA *Dal.* †Lectr.

**Philosophy within the Fac. of Arts**  
 (see also p. 267)

Giroux, Rev. M., MA PhL STD  
 Prof., Hd. of Dept.  
 Beauchamp, Rev. M., PhD STL  
 Prof., Asst. Dean  
 Gadouas, Rev. O., BA PhL STB  
 Prof., Asst. Dean  
 Wojciechowski, J., PhB *Louvain*, PhD *Laval*  
 Assoc. Prof.  
 Scully, E., BSc MA *Tor.*,  
 LSMéd *Pontif.Inst.,Tor.* Asst. Prof.  
 Visgak, C., MA *Tor.*, PhL Asst. Prof.  
 Dewan, J. L., MA *Tor.* Lectr.

Gravelle, L. O. J., PhB *Laval*, PhL  
 Hanus, Rev. E. J., BA PhL *STD*

Lectr.  
 †Lectr.

Mole, Rev. J. W., BA PhL *STL*  
 Tillard, Rev. R.-M., *STL*

†Lectr.  
 †Lectr.

### Photogrammetry

Blachut, T. J., CertEng *Lwow*

†Lectr.

### Physical Education

Montpetit, Rev. M., BA

Assoc. Prof., Dir. of Inst.

Landry, J. F., BA MSc(PhEd) *Ill.*

(on leave) Asst. Prof.

Marcotte, J. E. G., BA MS *Ill.*

Lectr.

Métivier, G. J., BSc MS PhD *Ill.*

Lectr.

Hebert, M., BA

†Lectr.

Sheedy, A., MSc *Ill.*

†Lectr.

Tremblay, Rev. J.-P.

†Lectr.

### Physics

Robson, J. M., BA *Camb.*, FRSCan,

FAPS

Prof., Hd. of Dept.

MacDonald, D. K. C., MA PhD *Edin.*,

MA DPhil *Oxon.*, FRS

†Hon. Prof.

Hedgcock, F. T., BSc *Manit.*,

MSc PhD *W.Ont.*

Assoc. Prof.

Lefavre, J., BA BScA MSc *Laval*

Assoc. Prof.

Benson, C. B., BA *Camb.*, MA PhD *Tor.*

(Phys.) Asst. Prof.

Hébert, J., MSc *Montr.*

Asst. Prof.

Lamarche, G., BSc *Montr.*, MSc

PhD *Br.Col.*

Asst. Prof.

Smith, R. C., BSc *W.Ont.*, MSc *McG.*

Asst. Prof.

Collings, E. W., MSc PhD *N.Z.*

†Lectr.

Basinski, Z. S., MA DSc DPhil *Oxon.*

†Lectr.

Dugdale, J. S., MA DPhil *Oxon.*

†Lectr.

McDiarmid, I. B., MA *Qu.*, PhD *Manc.*

†Lectr.

Pearson, W. B., MA DPhil *Oxon.*

†Lectr.

Ramsay, D. A., MA PhD *Camb.*

†Lectr.

**Polish Language and Literature**, see  
 Slavic Studies Centre, below

**Psychology**, see Educn. and Psychol.

### Psycho-Physiology

Côté, F., MD MS *Tor.*, BA PhL, FRCSCan,

FACS

†Prof.

Gratton, Rev. II., MA PhD *STL*

Lectr.

### Public Administration

Hamel, J. M., MScCom *Laval*, MPA *Syr.*

†Lectr.

### Public Speaking

O'Grady, E., MA PhD

Prof., Hd. of Dept.

Herbiet, J., DiplES *Brussels*

Lectr.

### Religion

Bradley, Rev. F., MA JCL PhD

Prof.

Vlacic, Vera, STL *Zagreb*, LScSoc *Louvain*

Lectr.

Ledent, Rev. A., STB *Paris*

Lectr.

Parent, Rev. M. E., BA *STL*

Lectr.

Dooley, Rev. J., MA *STD*

†Lectr.

**Russian**, see Slavic Studies Centre, below

**Slavic Studies Centre**, see below

### Social and Political Science

Bélanger, Rev. J.-M., BA PhL *STL*

Prof.

Buxton, G., MA *Manit.*, DU*Paris*

Prof.

Pépin, J.-L., BA PhL DiplScPol *Paris*,

I.L.L.

Assoc. Prof.

Dozois, G., LPolSc *Geneva*

Asst. Prof.

Mostovac, M., LLL *Zagreb*, LLD *Rome*

Asst. Prof.

Koller, P. A., PhD *Vienna*

†Lectr.

Boss, G. W., BA

†Lectr.

Lazure, Rev. J., MA *Notre Dame*,

BA PhL *STL*

(on leave) Lectr.

Sabourin, I., BA DiplScPol

DiplLittCont *Paris*

Lectr.

Blanchette, A., MA PhD

†Lectr.

Hamel, J. M., MScSoc *Laval*, MPA *Syr.*

†Lectr.

Hamel, J. P. R., BA

†Lectr.

Roussin, M., PhD

†Lectr.

Wanczycki, J. K., MLL MDiplSc *Lwow*,

DiplScPol *Paris*, PhD

†Lectr.

### Social Work

Bowers, Rev. S., MSc *Col.*, BA

Prof., Dir. of Sch. (St. Patrick's Coll.)

Couillard, C. L., BA MSW

Assoc. Prof.

Cruz, V. J., BA *Prov.*, MSW

Asst. Prof.

Selyan, Alice A., BA *Tor.*

Asst. Prof.

**Sociology**, see Soc., Econ. and Pol. Sci.

### Spanish

Lozano, I., MA *Malaga*

†Lectr.

### Statistics

Cloutier, Rev. G., BA PhD *STL*

Prof., Hd. of Dept.

Vaillancourt, M., BSc BEd MA

Asst. Prof.

Stukel, A., MSc *Ljubljana*, PhD *Bologna*

†Lectr.

**Theology**, see below

### Translation

Davault, P., FRSCan

†Lectr.

Goulet, D.

†Lectr.

**Ukrainian**, see Slavic Studies Centre, below

### CANON LAW

Caron, Rev. A., STD JCD PhD

Prof

Chaput, Rev. R., DDCivil *Pontif.Athen.*

*Lateran*, BA STL JCD

†Prof.

Latrémoille, Rev. R., DDC

LDCivil *Pontif.Athen.Lateran*, BA DPh

Prof., Vice-Dean of Fac.

Lafontaine, Rev. P. H., *DUParis*, BA  
STL JCD Prof., Sec. of Fac.  
Lesage, Rev. G., *STD Greg.*, MA PhD  
JCD DSSc DèSL Prof.

## MEDICINE

(for subjects of first two yrs.—  
Anat., etc., see above)

### Anæsthesia

Law, D., MD CM <i>Qu.</i>	†Assoc. Prof.
Bonfield, J. Patrick, MD CM <i>Qu.</i>	†Lectr.
Hampson, L. M., MD <i>Tor.</i>	†Lectr.
Manville, M., MD <i>Laval</i> , BA	†Lectr.
Sauvé, N., MD <i>Montr.</i>	†Lectr.
Whyte, D. W., MD <i>Qu.</i>	†Lectr.
Chatterjee, K., MB BS <i>Calc.</i>	Clin. Asst.
Janssen, Gesina, MD <i>Marburg</i>	Clin. Asst.
Rossignol, J.-P., BSc MD <i>Montr.</i> , BA	Clin. Asst.
Durocher, Juliette, MD <i>Montr.</i> , BA	Clin. Asst.
Kay, H. T.	Clin. Asst.

### Anatomy, see above

### Bacteriology and Hygiene

Gibbons, R. J., MA MD DPH <i>Tor.</i>	†Prof., Hd. of Dept.
Day, J. J., BA MD CM DPH <i>McG.</i>	Prof., Sec. of Fac.
Mitchell, C. A., BVSc <i>Tor.</i> , DVM <i>Montr.</i> , FRSCan	Assoc. Prof.
Baulieu, M., BSc <i>Montr.</i> , MSc PhD <i>McG.</i>	Asst. Prof.
Znamirovski, R., MB ChB BSc <i>Dub.</i>	Asst. Prof.
Hamel, J. F., BA MD <i>Montr.</i> , FRCPCan	†Lectr.
Lauder, M. S., MD CM <i>Qu.</i>	†Lectr.
Harris, F. F.	†Visiting Lectr.
Loeb, L. J., BSc <i>McG.</i> , MSc MD <i>W.Ont.</i>	†Demr.

### Biochemistry, see above

### Dermatology

Kingma, H., MD <i>Gron.</i>	†Asst. Prof.
Mercantini, E. S., BA <i>Tor.</i> , MD	Clin. Asst.

### Ethics

Marcoux, Rev. H., MA Phil. STL *Greg.*  
Prof., Regent of Fac.

### Gynæcology, see Obstet. and Gynæcol.

### Histology and Embryology

Belanger, L.-F., BA MD <i>Montr.</i> , MAMedSc <i>Harv.</i>	Prof., Hd. of Dept.
Hooper, Mrs. C. S., BSc PhD <i>McG.</i>	†Asst. Prof.
Florian, F., BA MD	Lectr.

### Medical Jurisprudence

Mercier, R., QC	†Lectr.
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## Medicine

Fidler, A., MD <i>Warsaw</i>	Prof., Hd. of Dept.
Guest, W. A., MD <i>Tor.</i>	†Prof.
Smiley, R. K., BA <i>Sask.</i> , MD CM <i>Qu.</i> , FRCPCan	Assoc. Prof.
Nancekivell, A. F., MD CM <i>McG.</i> , FRCPCan	†Asst. Prof.
Roussel, L., MD <i>Montr.</i> , BA	†Asst. Prof.
Bédard, O., BA MD <i>Laval</i>	†Sr. Lectr.
Berkman, F., MD CM <i>Qu.</i> , MSc <i>Georgetown</i> , FRCPCan	†Sr. Lectr.
Sauvé, G., BA MD <i>Montr.</i>	Lectr.
Brooks, D. W., BA MD <i>Tor.</i>	†Lectr.
Fireman, H. H., MD <i>Tor.</i> , FRCPCan	†Lectr.
Fraser, J. T., MD <i>Qu.</i>	†Lectr.
Fortier, B., MD <i>Montr.</i> , BA	†Lectr.
Gagné, R., MD <i>Montr.</i> , BA	†Lectr.
Law, W. B., MD CM <i>Qu.</i>	†Lectr.
Mercier, J., MD <i>Laval</i> , FRCPCan, BA	†Lectr.
Powers, A., MD <i>Laval</i> , BA	†Lectr.
Mazice, K., MB ChB <i>Edin.</i>	†Lectr.
Simard, Irène, MSS <i>Montr.</i> , MSW <i>Fordham</i>	†Lectr.
Potvin, L., BA MD <i>Laval</i> , FRCPCan	†Clin. Asst.
Purchase, E. C. R., BA <i>Sask.</i> , MD <i>Tor.</i> , FRCPCan	Clin. Asst.
Julien, Lucile, MD <i>Montr.</i> , BA	Clin. Asst.
Parent, E. P., MD	Clin. Asst.
Radoiu, N., BA <i>Cluj</i> , MD <i>Laval</i>	Clin. Asst.
Riley, J. M., BA <i>St.Jos.</i> , MD	Clin. Asst.
Valois, G., BA MD	Clin. Asst.
Villeneuve, P. J., MD	Clin. Asst.

## Medicine, History of

Mantha, L., MD <i>Montr.</i> , BA	†Asst. Prof.
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## Neurology, see Psychiatry and Neurol.

## Obstetrics and Gynæcology

Richard, A. L., BA <i>St. Anne (N.S.)</i> , MD <i>Laval</i>	†Prof., Hd. of Dept.
de Saint-Victor, H., BA MD <i>Laval</i>	†Prof.
Puddicombe, J. F., MD <i>McG.</i>	†Prof.
Nuyens, A. J., MD DSc <i>Utrecht</i>	†Assoc. Prof.
Whyte, J. C., MD <i>Qu.</i> , FRCOG, FRCSCan	†Asst. Prof.
Hurtig, A., BA MD <i>Alta.</i>	†Asst. Prof.
Carson, G. T., MD <i>Qu.</i>	†Lectr.
Noel, M., BA MD <i>Montr.</i>	Lectr.
Beaudoin, F., BA MD <i>Laval</i>	Clin. Asst.
Beggs, J. A., MD <i>Qu.</i> , DGO <i>Dub.</i>	Clin. Asst.
Kadziora, M. B., MD <i>Dusseldorf</i>	Clin. Asst.
Kronick, S., MD <i>Qu.</i>	Clin. Asst.
Reid, S. L., MD	Clin. Asst.
Watt, L. O., MD <i>Qu.</i> , FRCSED	Clin. Asst.
Rouleau, R., MD <i>Laval</i> , BA	Clin. Asst.
Conklin, F. J., MD	Clin. Asst.

## Ophthalmology

Gilhooly, J. P., MD CM <i>McG.</i>	Prof., Hd. of Dept.
Allen, D., MD CM <i>Qu.</i>	†Assoc. Prof.

Shirley, S. Y., MD *Dal.*, FRCSCan †Asst. Prof.  
 Fraser, W. F., MSc *Dal.*, MD *McG.* †Lectr.  
 Gaukrodger, W. T., MD *Qu.* †Lectr.  
 Watson, A. G., MB ChB *St. And.* †Lectr.  
 Baird, J. T., BSc MB ChB *Glas.* Visiting Lectr.  
 Corriveau, A. R., BA MD *Laval* †Lectr.  
 Spearman, W. F., BSc MD †Lectr.

### Oto-Laryngology

Coupal, J. L., MD *Montr.* Prof.  
 Corriveau, A. R., BA MD *Laval* †Lectr.  
 Laframboise, G., MD *Montr.* †Lectr.  
 Laframboise, G. G., BA MD Clin. Asst.  
 Robinson, H. C., MD *W. Ont.* Clin. Asst.

### Pædiatrics

Conway, D. J., MA MD *Camb.*,  
 FRCPCan, MRCP Prof., Hd. of Dept.  
 Kenney, A. S., BA *Bishop's*, MD *Qu.* †Asst. Prof.  
 de Bellefeuille, P., MD *Montr.*, BA †Asst. Prof.  
 Stewart, D. A., BA *Sask.*, MD *Tor.* Lectr.  
 Bourque, H., BA MD *Laval* †Lectr.  
 Maloney, P. J., MD CM *Qu.* †Lectr.  
 Marion, G., MD CM *Qu.* †Lectr.  
 Moritz, D., MD *Bud.* †Lectr.  
 Doyle, J. A., MD Clin. Asst.  
 Kay, Mrs. Elspeth C., MB ChB *Edin.* Clin. Asst.  
 Morin, H. L., BA *Laval*, MD *Montr.* Clin. Asst.  
 Ozere, R. L., BSc *McG.*, MD Clin. Asst.

### Parasitology

Choquette, L. P. E., BA *Montr.*, MSc  
 PhD *McG.* †Assoc. Prof.  
 Cameron, T. W. M., TD, MA PhD *Edin.*,  
 DSc *Lond.*, FRCS Visiting Prof.

### Pathology

Magner, D., MD BMedSc *Tor.*, FRCPCan  
 Prof., Hd. of Dept.  
 Campbell, J. S., BSc MD CM *Dal.* Assoc. Prof.  
 Hill, D. P., MD Asst. Prof.  
 Burke, J. P., BA *McG.*, MD †Asst. Prof.  
 Fournier, P. W., MD Lectr.  
 Patton, J. O., MD CM *Qu.* Visiting Lectr.  
 Klotz, M. O., MD *Tor.* Visiting Lectr.

### Pharmacology

Murnaghan, M., MB BCh BAO MSc *N.U.I.*  
 Prof., Hd. of Dept.  
 MacConaill, M., MSc *N.U.I.* Lectr.

### Phthysiology

Lehman, E. J., MB *Tor.* †Lectr.

### Physiology, see also above

Beznak, Mrs. Margaret, MD *Bud.*  
 Prof., Hd. of Dept.  
 Mainwood, G. W., PhD *Birm.* Asst. Prof.  
 Henrikson, Mrs. Helen, BSc PhD *McG.* Instr.

Hines, Mrs. Bernice, MA *Tor.* Instr.  
 Ottolenghi, P., MSc PhD *McG.* Lectr.

### Psychiatry and Neurology

Chalke, F. C. R., MD *Manit.*, MMedSc *Qu.*  
 †Assoc. Prof., Actg. Hd. of Dept.  
 Stern, K., MD *Fran.* †Prof.  
 O'Connell, J. J., MD CM *Qu.* †Assoc. Prof.  
 Szyrinski, V., MD *Warsaw*, PhD,  
 FRCPCan †Assoc. Prof.  
 Hefferman, Mrs. Angela B. †Asst. Prof.  
 Woodruff, W. A., BA MB BS *Lond.* †Lectr.  
 Gendreau, L.-P., BA MD *Manit.* Visiting Lectr.  
 Gilbert, J. E., MB BS *Lond.* Visiting Lectr.  
 Cathcart, J. P. S., MD *Tor.* †Sr. Lectr.  
 Atack, E. A., MD CM *Qu.*, FRCPCan  
 (Neurol.) Sr. Lectr.  
 Morin, G. D., BA MD *Montr.* †Lectr.  
 Pushman, D. R., MD *Tor.* Clin. Asst.  
 Tellier, J., BA MD *Laval* Clin. Asst.  
 Voyer, d'A., BA MD *Laval* Clin. Asst.

### Radiology

Don, C. J., MB BS *Lond.*, MRCP, FFR  
 Asst. Prof., Hd. of Dept.  
 Catton, G. E., MB BS *Lond.* †Lectr.  
 Crook, A. F., MB *Belf.*, FRCSEd †Lectr.  
 Hurley, J. D., MB BCh BAO *N.U.I.*,  
 DCH *Dub.* †Lectr.  
 Orr, W. L., MSc PhD *McG.* †Lectr.  
 Momose, K. J., BSc MD *McG.* Clin. Asst.

### Surgery

Ewing, J. B., MD CM *Qu.*, FRCS,  
 FRCSCan, FACS  
 (Clin. S.) Prof., Hd. of Dept.  
 Collins, W. E., MD CM *Qu.*, FRCSCan  
 †Assoc. Prof.  
 Côté, F., MD MS *Tor.*, BA PhL, FRCS,  
 FACS †Assoc. Prof.  
 Lecours, A., BA MD *Laval*, FACS,  
 FRCSCan  
 †(Clin. S.) Assoc. Prof., Sec. of Council  
 Robichon, J., MD *Laval*, MSc *McG.*, BA,  
 FRCSCan †(Clin. Orthop.) Assoc. Prof.  
 Samis, J. C., MD *Qu.*, FRCSEd,  
 FRCSCan †Assoc. Prof.  
 Wilson, K. E., MD *McG.* †Assoc. Prof.  
 Beattie, W. G., MD *Tor.*, FRCSCan  
 †Asst. Prof.  
 Drouin, J.-P., BA *Laval*, BSc MD *Alta.*,  
 FACS, FRCSCan (Clin. S.) †Asst. Prof.  
 Scobie, T. K., BA MD MSc DSurg *McG.*  
 †Asst. Prof.  
 Curran, D. D., MB BCh BAO *N.U.I.*,  
 FRCSEd †Asst. Prof.  
 Peterson, E. W., BSc MD *McG.*, FRCSCan  
 (Neuro-S.) †Asst. Prof.  
 Irwin, G. E., BA *Tor.*, MD *Laval*,  
 FRCSCan †Asst. Prof.  
 Bélanger, P. B., MD CM *McG.* †Sr. Lectr.  
 Berry, J. V., MD *Qu.* †Sr. Lectr.  
 Caven, W. H., MD *Tor.* †Sr. Lectr.  
 Bonfield, John P., MB *Qu.* †Lectr.

Larocque, A., MD *Montr.*, BA (Clin. S.) †Lectr.  
 Terrien, J., MD *Laval*, BA †Lectr.  
 Hooper, G. D., MD CM *McG.*, FRCSCan †Lectr.  
 Powell, A. B., MD *Tor.* †Lectr.  
 Brunet, E.-D., BA MD *Montr.* †Lectr.  
 Gaulin, P., BA MD †Lectr.  
 Heringer, R., BSc *McG.*, MD, FRCSCan †Lectr.  
 Aul, W. J., MD Clin. Asst.  
 Simurda, J., BA MD Clin. Asst.  
 Ducharme, F. A., BSc MD MCH Clin. Asst.  
 Murphy, P. G., BSc MD Clin. Asst.

### Therapeutics

Doyle, P.-E., BA *St.Dun.*, BSc *St.F.X.*,  
 MD CM *McG.*, FRCPCan Asst. Prof.

### PHILOSOPHY

(see also p. 263)

Saint-Denis, Rev. H., PhD STD *Pontif.Athen.*  
*Angelicum*, BPæd *Tor.*, BA Prof.  
 Carrière, Rev. G., STL *Greg.*, BA PhD Prof.  
 Croteau, Rev. J., MA PhD STL Prof.  
 Ducharme, L., PhD *Louvain*, BA STL Prof.  
 Gratton, Rev. H., MA PhD STL Prof.  
 Patry, Rev. M., MA STL PhD  
 Assoc. Prof., Sec. of Fac.  
 Stroeck, Rev. C., STD *Bonn*  
 Assoc. Prof., Vice-Dean of Fac.  
 Cournoyer, Rev. B., BA PhL STB Lectr.  
 Allard, J.-L., PhD *Paris*, BA PhL Lectr.  
 Dancause, Rev. G., BA PhL STL Lectr.  
 Gargantini, Rev. F., PhL STL *Greg.* Lectr.  
 Paquet, Rev. L., BA PhL STL Lectr.  
 Garceau, Rev. B., LTh *Greg.*, BA PhL Lectr.  
 LeMarier, Rev. J. G., BA PhL STL Lectr.  
 Parent, Rev. L. P., PhL *Pontif.Athen.*  
*Angelicum*, BA Lectr.  
 Poliquin, J.-M., BA PhL STB †Lectr.

### THEOLOGY

Gervais, Rev. J., PhL *Pontif.Athen.Angelicum*,  
 STD (Dogm. Th.) Prof.

Caron, Rev. V., STD  
 PhD *Pontif.Athen.Angelicum*  
 (Moral Th.) Prof.  
 Guindon, Rev. R., DTh *Frib.*, BA PhL  
 (Moral Th.) Prof., Sec. of Fac.  
 Marcotte, Rev. E., MA PhL STD  
 (Moral Th.) Prof., Vice-Dean of Fac.

### Associate Professors

Jetté, Rev. F., MA PhL STD (Spiritual Th.)  
 Joppolo, Rev. A., STL PhD *Rome*  
 (Dogm. & Fundam. Th.)  
 Pagano, Rev. S., STD SScl *Rome*, PhD  
 (Bibl. Lang.)

### Lecturers

Bellemare, Rev. R., BA PhL STD (Dogm. Th.)  
 Boudens, Rev. R., DHE (Church Hist.)  
 Chenier, Rev. M., BA PhL STL *Rome* (Theol.)  
 D'Aragon, Rev. J. A., LEcrs STL  
 (Sacred Scripture)  
 Goudreault, Rev. H., BA PhL STL  
 (Dogm. Th.)  
 Hudon, Rev. G., BA STD  
 DiplInstSupdeLit *Paris* (Liturgy)  
 Laberge, Rev. L., PhL STL (Dogm. Th.)  
 LeMarier, Rev. J.-G., BA PhL STL  
 (Dogm. Th.)  
 Moleski, Rev. L., BA PhB STB (Church Hist.)  
 Giguère, Rev. A., BA PhL STL (Moral Th.)  
 Lesage, Rev. G., STD *Greg.*, MA PhD  
 JCD DSSc DèsL (Canon Law)  
 Lamirande, Rev. E., MA PhL STL  
 (Dogm. Th.)  
 Vézina, Rev. L. P., BA PhL STL JCL  
 (Canon Law)

### SLAVIC STUDIES CENTRE

Bida, C., PhD *Vienna* Asst. Prof.  
 Wanczycki, J. K., MLL MDiplSc *Lwow*,  
 DiplPolSc *Paris* †Lectr.  
 Kaye, V., MA PhD *Vienna* †Lectr.  
 Mostovac, M., LLL *Zagreb*, LLD *Rome* †Lectr.  
 Wyczynski, P., LèsL Dipl'd'étSup *Lille*,  
 PhD †Lectr.  
 Levitzky, N. †Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Rector of Univ. Seminary : Rev. R. Norman-  
 din, PhD STL. Students' Chaplain : Rev. L.  
 Raby, BA STL. Dir. of Athletics : A. Sheedy,  
 MSc(HEd) III, BSc. Dir. of Univ. of Ottawa  
 Press : Rev. L. Lanctot, BA PhL STL LDC.  
 Dir. of Revue de l'Université d'Ottawa : Rev. G.  
 Carrière, STL *Rome*, BA PhD. Dir. of Catholic  
 Centre : Rev. J. Moncion, BA. Archivist : Rev.  
 J. Gravel, BA. Dir. of Univ. Health Services :  
 J. J. Day, BA MD PhD *Tor.* Legal Adviser : G.

Addy, BA LLB *Tor.* Dean of Students : Rev.  
 L. Ducharme, PhD *Louvain* & *Ott.*, BA. Dir. of  
 Guidance & Placement : L. Isabelle, BA MED.  
 Dir. of Public Relns. & Development : G. W.  
 Boss, BA. Dir. of Extension (evg., correspon-  
 dence, summer sch.) : Rev. Gérard Forcier, MA.  
 Principal of High Sch. (within the Univ.) : Rev.  
 R. Lemieux, BEd MA. Principal of Teachers'  
 Coll. (within the Univ.) : Rev. L.-P. Pigeon,  
 BPed *Tor.*, IPed *Louvain*, BA PhL STL.

## AFFILIATED INSTITUTIONS

[All, except Major Seminary, for BA only; Major Seminary: STB only]

BRUYÈRE COLLEGE, 200 Rideau St., Ottawa,  
 Ont. (tel.: Ottawa CE 5-7246). Directress—  
 Rev. Sr. St. Madeleine. Women only.

CATHOLIC COLLEGE OF GRAVELBOURG, Gravel-  
 bourg, Sask. (tel.: Gravelbourg 95). Rector—  
 Rev. E. Dubreuil. Men only.



CLASSICAL COLLEGE, Cornwall, Ont. (tel.: Cornwall 5350). Superior—Rev. E. Charlebois. Men only.

CLASSICAL COLLEGE, Rouyn, Que. (tel.: Rouyn 2822). Superior—Rev. J. Bélanger. Men only.

MAJOR SEMINARY, 1245 Kilborn St., Ottawa, Ont. (tel.: Ottawa RE 3-3640). Courses for STB of the univ. Director—Rt. Rev. D. Rollin. Men only.

MINOR SEMINARY, Carson Road, Ottawa, Ont. (tel.: Ottawa SH 6-8191). Superior—Rev. C. A. Demers. Men only.

NOTRE-DAME COLLEGE, Wilcox, Sask. (tel.: Wilcox 24). Director—Rev. A. Murray. Co-educational.

SACRED HEART SCHOLASTICATE, Lebreton, Sask. (tel.: Fort Qu'Appelle 23-r-47). Director—Rev. H. Gagné. Men only.

ST. JOHN'S COLLEGE, 8406 91st St., Edmonton, Alta. (tel.: Edmonton 63325). Director—Rev. A. Lacerte. Men only.

ST. THOMAS' COLLEGE, Battleford, Sask. (tel.: North Battleford 2212; Battleford 23). Director—Rev. E. Stang. Men only.

## GENERAL INFORMATION

In 1848 the Missionary Oblates of Mary Immaculate founded the 'College of Bytown' for the moral and intellectual educn. of the people of the Ottawa valley. In 1849 it was incorporated and in 1861 became the 'College of Ottawa'. An act of the union govt. in 1866 raised the coll. to the rank of a univ. and in 1889 it became a pontifical univ. by decree of Pope Leo XIII. The univ. had barely begun to develop when, in 1903, its bldgs. were destroyed by fire. The revised civil charter was approved by the Ontario legislature in 1933. The pontifical charter was amended according to the requirements of the constitution *Deus Scientiarum Dominus* and was also given a new approval by Rome in 1934. During the past 20 yrs. the univ. has developed rapidly. At present its student body more than 6500 (full-time and pt.-time).

Saint Patrick's Coll., founded in 1929, was in 1932 made an integral part of the fac. of arts of the Univ. of Ottawa; the English-speaking Oblates who founded it retain its admin. The sch. of soc. welfare of the univ. is located at Saint Patrick's Coll.

The purpose of the univ. is to give its students a truly Christian educn. A distinguishing mark of its teaching is the organization of parallel courses in English and French in most sections. In its teaching methods it tries to combine traditional values and modern techniques.

CONSTITUTION. In all matters academic, supreme power and authority rests with the senate, which is composed of the great chancellor, the rector, the deans and dirs. of facs. and schs. and the members of the council of admin. The admin. powers are vested in the council of admin. composed of the rector, vice-rectors, sec., treasurer and 2 councillors, all of them belonging to the Oblates of Mary Immaculate. This body is advised by senate on academic matters and by the bd. of regents (7 members chosen among prominent laymen) on financial matters.

LANGUAGES OF INSTRUCTION. Bilingual: French and English.

LIBRARIES. 290,000 vols. The parliament

library to which the students have access has 525,000 vols.

LABORATORIES. Anat., bacteriol., biochem., chem., phys., physiol., psychol.

MUSEUMS. Victoria museum; access to the geol. survey dept. museum; the dominion observatory and Canadian fisheries museum are located in Ottawa.

INCOME (1958-59). Total income, \$3,303,837.73 (govt. grants, 33 per cent.; fees, 30 per cent.; endowment, 1.5 per cent.; misc., 35.5 per cent.).

FACULTIES AND DEANS. *Arts*, Rev. R. Lavigne; *canon law*, Rev. A. Caron; *law (common & civil)*, Hon. G. Fauteux; *med.*, Dr. J.J. Lussier; *philos.*, Rev. H. St.-Denis; *pure & appl. sci.*, Dr. P.-R. Gendron (chem.); *soc., econ. & pol. sci.*, Rev. J.-M. Bélanger; *theol.*, Rev. J. Gervais.

SCHOOLS AND DIRECTORS. *High sch.*, principal: Rev. R. Lemieux; *library*, Rev. A.-M. Morisset; *teachers' coll.*, principal: Rev. L.-P. Pigeon; *nursing*, Sr. Madeleine-de-Jésus; *psychol. & educn.*, Rev. R. Shevenell.

INSTITUTES AND DIRECTORS. *Missiology*, Rev. J.-E. Champagne; *pastoral theol.*, Rev. L. P. Vézina; *phys. educn.*, Rev. M. Montpetit; *slavic studies centre*, Rev. R. Lavigne.

GEOGRAPHICAL LOCATION. Theol., philos. and canon law: 223 Main St., tel.: CE 5-1421; arts: 165 Waller St., tel.: CE 5-6751, loc. 221; pure and appl. sci.: 700 King Edward St., tel.: CE 5-6751, loc. 265; med.: 275 Nicholas St., tel.: CE 5-6751, loc. 283; law: 165 Waller St., tel.: CE 5-6751, loc. 307; nursing sch.: 30 Stewart St., tel.: CE 5-6751, loc. 238; Catholic centre: 1 Stewart St., tel.: CE 5-6751, loc. 245.

TEACHING HOSPITALS. Ottawa General H. (centre for clin. teaching), Ottawa Civic H. (Veterans' Pavilion) (clin. med. & surg.); St. Vincent's H. (phys. diagnosis), Royal Ottawa Sanatorium (TB.), Rockcliffe Military H. (clin. teaching surg.).

ADMISSION. See Appendix II.

**DEGREE COURSES.** *Theol.*—STB (2 yrs.), STL (4 yrs.), STD (5 yrs.), DMiss (3 yrs.). *Canon law*—JCB (1 yr.), JCL (2 yrs.), JCD (3 yrs.). *Philos.*—PhB (2 yrs.), PhL and MA(Ph) (3 yrs.), PhD (4 yrs.). *Law*—LLB and LLL (3 yrs.), LLD (2 yrs.). *Med.*—MD (4 yrs.). *Arts*—BA (4 yrs.), BA(Ed), BA(PhysEd), BA(Phil), BA(Geog), BA(Premed) (4 yrs.), BHE (4 yrs.), BCom, BCom(BA), BCom(Acc), BCom(Econ) (4 yrs.), hons. BA in Engl., Engl.-Latin, French-Latin, geog., philos., psychol. (5 yrs.), MA, PhD, DLitt. (2 to 3 yrs.). *Pure & appl. sci.*—pass BSc (4 yrs.), hons. BSc in biochem., biol., chem., geol., maths., phys. (5 yrs.), BASc in chem. engin. and electr. engin. (5 yrs.), MSc in nuclear engin. (1 yr.), MSc and PhD in biochem., biol., chem., chem. engin., electr. engin., geol., maths., phys. (2 to 4 yrs.). *Soc., econ. & pol. sci.*—BA(PolSci), BA(Econ), BA(SS) (4 yrs.), BPolSci (general or in internat. relns.), BEcon, BSS (4 yrs.), MA and PhD in pol. sci., econ. and soc. studies (2 to 3 yrs.). *Nursing*—BNSc (5 yrs.). *Libr. sci.*—BLS, MLS (2 to 3 yrs.). *Psychol. & educn.*—BED (5 yrs.), MEd, MPsychol, MA(Ed), MA(Psychol), PhD in educn., psychol., clin. psychol., counselling (1 to 3 yrs.). *Soc. work*—MSW (2 yrs.).

**HONORARY DEGREES.** LLD, DSc, DLitt, DBA, STD.

**DIPLOMAS.** Grad. studies (2 yrs.), sch. of nursing (3 yrs.), sch. of library sci. (1 yr.).

**CERTIFICATES.** Gregorian chant (5 summer sessions), library sci. (1 yr.), appl. sci. (3 yrs.), pol. sci. (1 yr.), nursing (public health) (1 yr.), nursing (nursing educn.) (1 yr.), phys. educn. (3 summer sessions).

**EXTENSION DEPARTMENT.** Offers courses carrying academic credit towards BA, BCom degrees, in evg. courses during winter session, at annual summer sch. and at sp. outside centres (at present, Hawksbury and Cornwall). There are two sections in the summer sch.: the grad. division leading to masters' or doctors' degrees and the undergrad. leading to bachelors' degrees. In all cases there is a min. residence of 1 full yr. for doctors' degrees. The dept. of extension also offers correspondence courses leading to a pass BA. A min. of course must be taken in residence: either a full academic yr. or 3 summer sessions.

**SUMMER COURSES** in arts and sci., philos., psychol., theol., church music, phys. educn., grad. studies.

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**PUBLICATIONS.** *Revue de l'Univ. d'Ottawa* (quarterly, \$3); *Calendars* of the different facs., schs. and insts.; *Publications sériees* (51 vols. already publ.); Univ. of Ottawa Teachers' Coll. *Yearbook*; *Med. Journal* (quarterly, \$0.50 per issue); *Inscape* (quarterly review of literature); *The Fulcrum* and *La Rotonde* by students.

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## THE YEAR 1959

**HONORARY DEGREES.** LLD—Hon. M. R. Drouin, speaker of senate; F. C. James, principal & vice-chancellor, McG.; Sir E. C. MacMillan, musician; A. Nadeau, lawyer and author; Major General J.-V. Allard, vice-chief of general staff; Major General H. Kennedy, chairman, National Capital Commission; Dr. N. Sylvestre, alumnus.

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men	2182	1699
Women	458	2212
Total	2640	3911*

\* Correspondence, 1085; evg. courses, 1374; summer courses, 1653; grad. courses, 303 (504 double registration).

Distribution by Faculties, etc. *Arts*, 482; *canon law*, 5; *comm.*, 323; *home econ.*, 36; *law*, 194; *library sci.*, 12; *med.*, 265; *missiol.*, 1; *nursing*, 186; *pastoral theol.*, 49; *philos.*, 160; *phys. educn.*, 68; *psychol. & educn.*, 66; *sci.*, 394; *soc., econ. & pol. sci.*, 157; *soc. work*, 41; *theol.*, 201. Total: 2640.

*Included in the figures above are :—*

Postgraduate students, 411.

New admissions, 1139.

Students from other countries, 253. (Country from which largest number came: U.S.A., 152).

*Not included in the figures above are :* affiliations, 700; teachers' coll., 335.

DEGREES AWARDED (1959). *Arts*: BA, 251; BA(PhysEd), 4; BA(PreMed), 4; BSc(Geog), 1; BSc(PhysEd), 1; BSc(Ed), 1; BCom, 47; BHE, 5; MA, 14; PhD, 5. *Canon law*: JCL, 3.

*Law*: LL.L., 24. *Library sci.*: BLS, 4. *Med.*: MD, 55. *Nursing*: BScN, 10. *Philos.*: PhB, 56; BA(HonsPhilos), 9; PhL, 15; PhD, 1. *Psychol. & educn.*: BEd, 13; MA(Ed), 2; MA(Psych), 2; MEd, 14; MPsych, 3; PhD(Educn), 5; PhD(EducnPsych), 2; PhD(Counselling), 1; PhD(ClinPsych), 3; PhD(ClinChildPsych), 1. *Sci.*: BSc, 8; BAsC(Chem), 4; BAsC(Elect), 6; BSc(HonsBiochem), 1; BSc(HonsCh), 3; BSc(HonsBiol), 1; BSc(HonsMath), 1; BSc(HonsPhys), 1; PhD(Chem), 4; PhD(Biol), 1; PhD(Phys), 1. *Soc., econ. & pol. sci.*: BA(PolSc), 14; BA(Econ), 1; BPolSc, 5; MA(Econ), 3; MA(PolSc), 1. *Soc. work*: MSW, 15. *Theol.*: STB, 35; STL, 34; STD, 1.

DIPLOMAS AND CERTIFICATES AWARDED (1959). Elocution, 1; grad. nurses, 34; nursing educn., 13; pub. health nursing, 17; library sci., 1; grad. dipls. in civil law, 6; slavic studies, 1; religion, 1.

# QUEEN'S UNIVERSITY AT KINGSTON\*

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## TEACHING STAFF

[† = Part-Time]

**Anatomy**, see Medicine, below

### Art

Bieler, A.  
1 Asst., 1 Tutor

**Bacteriology**, see Medicine, below

**Biochemistry**, see Medicine, below

### Biology

..... John Roberts & John Roberts Allan Prof.  
Krotkov, G., BSA *Prague*, MA PhD *Tor.*,  
FRSCan McLaughlin Res. Prof.  
West, A. S., BSc *Mass.State*, PhD *Yale* Prof.  
Curran, H. W., BS *Hobart (N.Y.)*, MA  
PhD *Mich.* Prof.  
Good, H. M., BA PhD *Tor.* Assoc. Prof.  
Denyes, Miss H. Arliss, MS PhD *Mich.*,  
BA Asst. Prof.  
Beschel, R. E., PhD *Innsbruck* Asst. Prof.  
Brown, S. R., MA Asst. Prof.  
Nelson, C. D., MA PhD Asst. Prof.  
Loughton, B. G., BSc *Nott.* Lectr.  
18 Tutors

### Business, School of

Macpherson, L. G., BA *McM.*, FCA  
Prof., Dir. of Sch.  
Prof. Smails, R. G. H., BSc(Econ) *Lond.*, FCA Prof.  
McDougall, J. L., MA *Tor.* Prof.  
Leonard, W. G., FCA Prof.  
Smyth, J. E., MCom *Tor.*, FCA Assoc. Prof.  
Hand, R. J., BCom *Manit.*, MBA *Chic.*  
Assoc. Prof.  
Barrett, F. D., BSc *McG.*, PhD *M.I.T.*  
Assoc. Prof.  
Benson, E. J., BCom Asst. Prof.  
Galvin, B. J. B. Asst. Prof.  
Dixon, B., BA *Manit.*, MCom *Tor.*,  
PhD *Mich.* Asst. Prof.  
1 Tutor

### Chemistry

Jones, J. K. N., PhD DSc *Birm.*, FRS,  
FRSCan Chown Sci. Res. Prof.  
Frost, G. B., BA *Tor.*, PhD *Calif.* Prof.  
Munro, L. A., MA *Dal.*, PhD *McG.*,  
FRSCan, FCIC Prof.  
Dorrance, R. L., MA *Tor.* Prof.  
Smith, W. M., BSc *New Br.*, PhD *McG.* &  
*Camb.*, FCIC Assoc. Prof.

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Moir, R. Y., PhD *McG.*, MA Assoc. Prof.  
 Russell, K. E., MA PhD *Camb.* Asst. Prof.  
 Wheeler, R. C., PhD *Camb.*, MSc Asst. Prof.  
 Breck, W. G., PhD *Camb.*, MSc Asst. Prof.  
 Stairs, R. A., BSc *McG.*, MSc *W.Ont.*,  
 PhD *Corn.* Asst. Prof.  
 Perry, M. B., BSc *Brist.* Asst. Prof.  
 31 Demrs. & Tutors

**Classics**

Tracy, H. L., BA *Tor.*, PhD *Chic.* Prof.  
 Smethurst, S. E., MA *Camb.* Prof.  
 Robinson, T. H., MA Lectr.  
 2 Tutors

**Drama**

Angus, W., AM PhD *Corn.* Assoc. Prof.  
 1 Asst., 1 Tutor

**Economics**, see Pol. and Econ. Sci.

**Engineering**, see below

**English**

Ross, M. M., BA *New Br.*, MA *Tor.*,  
 PhD *Corn.*, FRSCan James Cappon Prof.  
 Vincent, C. J., BA *W.Ont.*, AM Prof.  
 PhD *Harv.* Prof.  
 Whalley, A. G. C., CD, MA *Oxon.* &  
*Bishop's*, PhD *Lond.*, FRSL, FRSCan Prof.  
 LePan, D. V., BA *Tor.*, MA *Oxon.* Prof.  
 Walker, E. A., BA *Tor.*, MA *Camb.* Assoc. Prof.  
 Stedmond, J., MA *Sask.*, PhD *Aberd.* Assoc. Prof.  
 Dean, C., BA PhD *Leeds* Asst. Prof.  
 Baxter, J. S., BA *Br.Col.* Asst. Prof.  
 Robertson, D., BA *Tor.*, MA *Johns H.* Asst. Prof.

Lougheed, W. C., MA Asst. Prof.  
 Newell, I., MA *Duke*, BLitt *Oxon.*, BA Lectr.  
 Sampson, G., MA *Bishop's* Lectr.  
 Crawley, D. F., BA *Manit.*, MA *Oxon.* Lectr.  
 7 Assts., 18 Tutors

**French**

Evans, W. H., BA *Wales*, DUParis Prof.  
 Shortliffe, G., MA *Alta.*, PhD *Corn.* Prof.  
 Bessette, B., LèSL MA DèSL *Montr.* Assoc. Prof.  
 Gobin, P. B., LèSL *Paris* Asst. Prof.  
 Ogier, J., LèSL *Poitiers* Lectr.  
 Lundlie, M., MA *Tor.* Lectr.  
 2 Assts., 4 Tutors

**Geography**

Ruggles, R. I., BA *Tor.*, MA *Syr.*,  
 PhD *Lond.* Assoc. Prof.  
 Innis, D. Q., BA *Tor.*, PhD *Calif.* Lectr.

**Geological Sciences**

Hawley, J. E., PhD *Wis.*, MA, FRSCan,  
 FGSA Miller Memorial Res. Prof.

Ambrose, J. W., AB *Stan.*, PhD *Yale*,  
 FRSCan, FGSA Prof.  
 Jolliffe, A. W., PhD *Prin.*, MA, FRSCan,  
 FGSA Prof.  
 Berry, L. G., MA PhD *Tor.*, FRSCan,  
 FGSA Prof.  
 Fitzpatrick, M. M., MA *Tor.*, PhD *Harv.* Asst. Prof.  
 Gorman, W. A., MSc PhD *McG.* Asst. Prof.  
 Kerr, J. W., BSc *Alta.* Lectr.  
 Wynne-Edwards, H. R., BSc *Aberd.*,  
 MA PhD Lectr.  
 25 Tutors

**German**

Laird, Hilda C., PhD *Corn.*, BLS *Pratt*,  
 BA Prof.  
 Eichner, H., BA PhD *Lond.* Assoc. Prof.  
 Straub, J. P., DPhil *Frib.* Lectr.  
 4 Tutors

**Hebrew**

Clarke, E. G., MA BD *Tor.* Assoc. Prof.

**History**

Harrison, W. E. C., OBE, MA *Lond.* Prof.  
 Keppel-Jones, A. M., MA *Oxon.*,  
 PhD *Cape T.* Prof.  
 Smith, Rev. W. E. L., MC, MA DD *Tor.*,  
 PhD *Edin.* Assoc. Prof.  
 Gibson, F. W., MA Assoc. Prof.  
 Wise, S. F., BA BLS *Tor.*, MA Asst. Prof.  
 Pierce, R. A., MA PhD *Calif.* Lectr.  
 18 Tutors

**Italian**, see Spanish and Italian

**Law**

Lederman, W. R., BA LLB *Sask.*,  
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 Soberman, D. A., BA LLB *Dal.*,  
 LLM *Harv.* Assoc. Prof.  
 Mewett, A. W., LLB *Birm.*, BCL *Oxon.*,  
 LLM SJD *Mich.* Assoc. Prof.  
 Lawford, H. J., BA LLB *Alta.*, BCL *Oxon.* Asst. Prof.  
 Gosse, R. F., BA *McG.*, LLB *Br.Col.* Asst. Prof.  
 MacIntyre, J. M., BCom LLB *Br.Col.*,  
 LLM *Harv.* Asst. Prof.  
 Slater, T. D., QC, BA †Sp. Lectr.  
 Wilcox, T. R., QC †Sp. Lectr.  
 Willoughby, L. S., BA *W.Ont.* †Sp. Lectr.

**Mathematics**

Coleman, A. J., BA PhD *Tor.*, MA *Prin.*  
 N. F. Dupuis Prof.  
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 FRSCan Prof.  
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 (Astron.) Prof.  
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 Pugh, R. E., BSc *Br.Col.* Lectr.  
 Krotkov, Mrs. Valentina N., BA *Moscow*,  
 MA *Tor.* †Instr.  
 11 Tutors

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 (Pub. Health) Assoc. Prof., Dir. of Sch.  
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 Wilson, G. E., MD *Tor.*  
 (Mental Hyg.) †Sp. Lectr.

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Duncan, A. R. C., MA *Edin.*  
 John & Ella G. Charlton Prof.  
 Estall, H. M., MA *McG.*, PhD *Corn.* Prof.  
 Carter, W. B., MA PhD *Tor.* Lectr.  
 Watts, R. L., BA *Tor.*, MA *Oxon.* Lectr.  
 Fell, A. P., AM *Col.*, BPhil *St.And.* Lectr.  
 Robinson, T. H., MA Lectr.  
 2 Teaching Fellows, 7 Tutors

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 Edwards, J. F., AM(PE) *Mich.*, BA Assoc. Prof.  
 Tindall, F., AB *Syr.* Asst. Prof.  
 Ross, S. Marion, AM *Col.*, BA Asst. Prof.  
 Leonard, A. L., BA BPHE Asst. Prof.  
 Leggett, Dorothy, BS *McG.*, MSc *Wis.* Lectr.  
 Turnbull, Anna C., BSc(PE) *McG.* Lectr.  
 Galasso, P. J., BA BPHE Instr.  
 Ohlendorf, H. Instr.  
 6 Assts.

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 FRSCan McLaughlin Res. Prof.  
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Armstrong, H. L., MSc Asst. Prof.  
 Puhach, P. A., MSc *Alta.*, PhD *McG.* Asst. Prof.  
 Holloway, A. F., PhD *Lond.*, MSc †Lectr.  
 38 Demrs. & Tutors

**Physiology, see Medicine, below**

**Political and Economic Science**

Knox, F. A., BA, FRSCan Prof.  
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 Sir John A. Macdonald Prof.  
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 FRSCan Hardy Prof.  
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 Urquhart, M. C., BA *Alta.* Prof.  
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 PhD *Calif.* Prof.  
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 Rosenbluth, G., BA *Tor.*, PhD *Col.* Assoc. Prof.  
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 Thorburn, H. G., BA *Tor.*,  
 AM PhD *Col.* Asst. Prof.  
 Young, F. J. L., MA *St.And. & Qu.*  
 (Indust. Relns.) Asst. Prof.  
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 PhD *Harv.* Asst. Prof.  
 Post, G. R., BA Lectr.  
 Fyfe, S., PhD *Manc.*, MA (Local Govt.) Lectr.  
 Gunn, J. A. W., BA Sessl. Lectr.  
 17 Tutors

**Psychology**

Blackburn, J. M., BSc *Lond.*, PhD *Camb.* Prof.  
 James, P. H. R., BA *Camb.*, PhD *Lond.*  
 Assoc. Prof.  
 Payne, R. W., BA *Alta.*, PhD *Lond.* Assoc. Prof.  
 Laird, Isabel M., MA BED *Edin.*, FBPsS  
 Asst. Prof.  
 Dodwell, P. C., BA DPhil *Oxon.* Asst. Prof.  
 Inglis, J., MA *Edin.*, PhD *Lond.* Asst. Prof.  
 Campbell, D., MA *Oxon.*, PhD *Lond.* Asst. Prof.  
 11 Tutors

**Religion**

Andrews, Rev. E., BA *Dal.*, MA PhD *Drew*,  
 BD *Pine Hill*, DLitt *Mt.All.* Prof.  
 Mathers, D. M., MA BD *St.And.*, PhD *Col.*  
 Assoc. Prof.

**Russian**

Krotkov, Mrs. Valentina N., BA *Moscow*,  
 MA *Tor.* †Instr.

**Spanish and Italian**

Hilborn, H. W., MA PhD *Tor.*  
 (Spanish & Italian) Prof.

Fox, A. M., MA *Tor.* (Spanish) Asst. Prof.  
 McDonald, J. K., BA *Br.Col.*, MA *Oregon*  
 (Spanish) Lectr.  
 Johnson, Mrs. Loretta, BA *Tor.* Instr.  
 5 Tutors

## ENGINEERING

### Chemical Engineering

Plewes, A. C., PhD *McG.*, MSc, FCIC Prof.  
 Clark, R. H., BSc(Eng) PhD *Lond.* Asst. Prof.  
 Code, R. K., BSc *Ill.*, PhD *Corn.* Asst. Prof.  
 Gunn, D. J., MSc *Durh.* Lectr.  
 5 Demrs.

### Civil Engineering

Lash, S. D., DIC, MSc *Lond.*, PhD *Birm.* Prof.  
 Brooks, J. W., MAsC *Tor.*, BSc Prof.  
 Kennedy, R. J., MC, MS *Iowa*, BSc Assoc. Prof.  
 Dauphin, E. L., MS *Ill.*, BSc Assoc. Prof.  
 Edwards, H. M., MSCE *Purdue*, BSc Assoc. Prof.  
 Brebner, A., BSc PhD *Aberd.* Assoc. Prof.  
 Lazier, S. S., MAsC *Tor.* Asst. Prof.  
 Townsend, D. L., DIC, MEng *McG.* Asst. Prof.  
 Waller, D. H., BEng *Dal.* Asst. Prof.  
 Lee, J. A. N., BSc(Eng) PhD *Nott.* Asst. Prof.  
 Grier, W. G., BASC *Tor.* Asst. Prof.  
 MacLachlan, F. A., BSc Lectr.  
 LeMéhauté, B., LèsSc *Paris*,  
 IngDr *Grenoble* Sp. Lectr.  
 2 Demrs.

### Drafting

Stinson, W. G., BSc Asst. Prof.  
 Pidgeon, C. W., BSc Lectr.  
 Mosley, W. H., BSc *Birm.* Lectr.  
 Bews, D. W., BSc †Sp. Instr.  
 Cliff, G. H., BSc †Sp. Instr.  
 Dougherty, J. W., BSc †Sp. Instr.  
 Rogers, H. D., BSc †Sp. Instr.  
 2 Demrs.

### Electrical Engineering

Jemmett, D. M., DCM, MA BSc Prof.  
 Stewart, H. H., MS *Mich.*, BSc Prof.  
 Pollock, H. S., MSc Prof.  
 Campling, C. H. R., SM *M.I.T.*, BSc Assoc. Prof.  
 Chisholm, R. M., MAsC PhD *Tor.*, BSc  
 Asst. Prof.  
 Bennett, J. A., MSc Lectr.  
 7 Demrs.

### Mechanical Engineering

Conn, H. G., OBE, MS *Mich.*, BSc Prof.  
 Campbell, J. S., MSc Prof.  
 Gilbert, W. D., SM *M.I.T.*, BSc Assoc. Prof.  
 Rice, W. B., BSc *SirG.Wms.*, MEng *McG.* Assoc. Prof.  
 King, P. C., CD, BSc Assoc. Prof.  
 Cornil, E. R., BSc Lectr.  
 10 Demrs.

### Metallurgy

Carson, O. A., AM PhD *Col.*, BSc Prof.  
 Hames, F. A., BSc *Montana*, PhD *Missouri*,  
 MSc Prof.  
 Light, D. E., MSc Asst. Prof.  
 Cliff, G. H., BSc †Sp. Instr.

### Mining Engineering

Corlett, A. V., BSc *Algoma Ore Properties* Prof.  
 Thompkins, R. W., BSc Asst. Prof.

## MEDICINE

(for subjects of the first year -Chem., etc.,  
 see above)

### Anæsthetics

Vandewater, S. I MD *Tor.*, FRCPCan Assoc. Prof.  
 Campbell, W. A., MD CM †Asst. Prof.  
 Mahood, J. H. S., BA MD CM †Lectr.  
 Edwards, K. F., MD *Tor.* †Clin. Asst.  
 Nekus, V. A., MD *Kaunas* †Clin. Asst.  
 Russell, E. S., BA *Sask.*, MD *W.Ont.* †Clin. Asst.  
 1 Fellow

### Anatomy

Basmajian, J. V., MD *Tor.* Prof.  
 Laurensen, R. D., MB ChB *Aberd.* Asst. Prof.  
 Sandborn, E., MD *Manit.* Lectr.  
 3 Fellows

### Bacteriology

Orr, J. H., MD CM, FRCPCan, FRSCan Prof.  
 Hinton, N. A., DipBact *Lond.*, MD CM  
 MScMed Assoc. Prof.  
 Milazzo, F. H., BS *W. Virginia Wesleyan*,  
 MS PhD *Syr.* Asst. Prof.  
 1 Demr.

### Biochemistry

Beveridge, J. M. R., BSc *Acad.*, PhD *Tor.*,  
 MD *W.Ont.*, FRSCan Prof.  
 Hurst, R. O., BA PhD *Tor.* Assoc. Prof.  
 Rattray, J. B. M., BSc *St.And.* Asst. Prof.  
 Kuksis, A., MS *Iowa State*, PhD Asst. Prof.  
 6 Demrs.

### Embryology and Histology

Kropp, B. N., AM PhD *Harv.* Assoc. Prof.  
 Jollie, W. P., MS *Lehigh*, PhD *Harv.* Lectr.

### Gynæcology, see Obstet. and Gynæcol.

### Medical Jurisprudence

T'weddell, J. T., MD CM †Lectr.

### Medicine and Clinical Medicine

Connell, W. F., MD CM, FRCPCan, FACP Prof.  
 Brown, G. M., DPhil *Oxon.*, MD CM,  
 FRCPCan, FACP Prof.

White, D. N., MA MD *Camb.*, FRCPCan, FACP Prof.  
 Kelly, H. G., MD CM, FRCPCan Assoc. Prof.  
 Wilson, D. L., MA MD CM, FRCPCan Assoc. Prof.  
 Milliken, J. A., MD CM, FRCPCan Assoc. Prof.  
 Hopkins, B. H., MB *Tor.* †Asst. Prof.  
 Young, B., MD CM †Asst. Prof.  
 Robinson, S., MD CM †Lectr.  
 Tweddell, J. T., MD CM †Lectr.  
 Danby, C. W. E., MD CM, FRCPCan †Lectr.  
 McCracken, G., MD CM, FRFPGlas †Lectr.  
 Bird, H. G., MB *Tor.*, FRCPCan †Lectr.  
 Gibson, J. E., BA MD CM †Lectr.  
 Fransman, S. L., MD *Amst.* †Lectr.  
 Dingwall, R. W., MD CM MSc(Med) †Clin. Asst.  
 Cronk, L. B., MD CM, FRCPCan †Clin. Asst.  
 Loynes, J. S., MD CM MScMed †Clin. Asst.  
 Jacobs, H. E., MD *Freib.* †Clin. Asst.  
 Page, J. O., MD CM MScMed †Clin. Asst.  
 2 Fellows, 1 Clin. Tutor

### Obstetrics and Gynæcology

Robertson, E. M., MB ChB *Edin.*, FRCOG, FRCSEd, FRCSCan Prof.  
 Mylks, G., BA MD CM, FACS †Assoc. Prof.  
 McLeod, P. A., CD, BA MD CM, FRCOG, FRCSCan †Assoc. Prof.  
 Merritt, R. I., MD CM, FRCSCan Asst. Prof.  
 Clow, L. R., MD CM, FRCSCan †Clin. Asst.  
 O'Connor, L. N., MD CM †Clin. Asst.  
 Patterson, W. S., MD CM †Clin. Asst.  
 1 Clin. Tutor

### Ophthalmology

Rosen, D. A., BSc MD CM *McG.*, FRCSCan Prof.  
 McBroom, J. G., MD CM †Asst. Prof.  
 MacPherson, G. B., BA MD CM †Lectr.  
 Beswick, J. A., MD *Tor.* †Clin. Asst.

### Oto-Rhino-Laryngology

MacPherson, G. B., BA MD CM †Asst. Prof.  
 McBroom, J. G., MD CM †Asst. Prof.  
 Purvis, J. R., MD CM †Clin. Asst.

### Pædiatrics

Bryans, A. M., MD *Tor.*, FRCPCan Prof.  
 O'Connor, F. J., MD CM †Clin. Asst.  
 Delahaye, D. J., MD CM †Clin. Asst.  
 Geiger, D. W., MD CM †Clin. Asst.  
 Reid, J. D., MD CM †Clin. Asst.

### Pathology

More, R. H., MD *Tor.*, MScMed *McG.* Prof.  
 Kipkie, G. F., MSc *McG.*, MD CM Assoc. Prof.  
 Waugh, D. O. W., MD CM MScMed PhD *McG.* Assoc. Prof.  
 Bencosme, S. A., MD *Montr.*, MSc PhD *McG.* Assoc. Prof.  
 Steele, H. D., MD CM Asst. Prof.

Rota, A. N., MD *Tor.* †Instr.  
 2 Fellows

### Pharmacology

Boyd, E. M., MA MD CM Prof.  
 McEwen, H. D., PhD *Roch.*, MA Assoc. Prof.  
 1 Fellow

### Physiology

Ettinger, G. H., MBE, DSc *W.Ont.*, BA MD CM, FRCSCan Prof.  
 Hatcher, J. D., MD PhD *W.Ont.* Assoc. Prof.  
 Semple, R. E., MA *Br.Col.*, PhD *Col.* Assoc. Prof.  
 Sawyer, Mrs. Margaret E. M., MA PhD *McG.* Assoc. Prof.  
 1 Fellow, 7 Tutors

### Psychiatry

Sloane, R. B., MD DPM *Lond.* Prof.  
 Laverty, S. G., BSc MB ChB *Edin.*, DPM *Lond.*, MRCP Asst. Prof.  
 Billings, R. M., MD CM †Clin. Asst.  
 Scott, G. D., MD CM †Clin. Asst.  
 Wilson, G. E., MD *Tor.* †Clin. Asst.  
 James, E. A., MD CM †Clin. Asst.  
 Haden, P., MB BChir *Camb.*, DPM *Lond.*, MRCP †Clin. Asst.

### Public Health and Preventive Medicine

Wyllie, J., MA BSc MD *Glas.*, DPH *Camb.* Arthur R. Elliott Prof.  
 Kelly, R. A., MD CM DPH †Lectr.

### Radiology and Physical Therapy

Burr, R. C., MD CM, FRCSEd, FRCSCan †Prof.  
 Colwell, B. T., BA MD *W.Ont.*, DMR †Lectr.  
 Fransman, S. L., MD *Amst.* †Lectr.  
 Beattie, W. H., BA MD *W.Ont.*, DMR †Clin. Asst.  
 Batley, F., BSc MB ChB *Manc.*, DMRT *Lond.* †Clin. Asst.  
 2 Demrs.

### Surgery

Bingham, D. L. C., MB ChB *Edin.*, FRCSEd, FRCSCan, FACS Prof.  
 Houston, S. W., MD CM, FRCSEd, FRCSCan †Assoc. Prof.  
 Boucher, D. W., MD CM, FRCSEd, FRCSCan †Assoc. Prof.  
 Lynn, R. B., MD CM, FRCS, FRCSEd (Cardiovasc. & Thoracic) Assoc. Prof.  
 Tilley, A. R., OBE, MD *Tor.*, FACS (Plastic S.) †Asst. Prof.  
 Hetherington, R. F., MD *Tor.*, DPhil *Oxon.* (Neuro-S.) Asst. Prof.  
 Melvin, W. J. S., BA MD CM, FRCS (Orthop. S.) †Asst. Prof.  
 Ghent, W. R., MD CM, FRCSCan Asst. Prof.  
 Broom, J. C. W., DDS *Tor.* (Dental S.) †Lectr.



Hazlett, J. W., MD *Tor.*, FRCSCan  
(Orthop. S.) †Lectr.  
Derby, A. C., BSc MD CM *McG.*,  
FRCSCan Lectr.  
Lindsay, G. C., MD CM †Clin. Asst.  
Warner, H. M., BSc MD CM *McG.*,  
FRCSCan †Clin. Asst.  
Gowland, J. H. C., DDS *Tor.*  
(Dental S.) †Clin. Asst.

Koster, B. M., MD CM *McG.* †Clin. Asst.  
Neuman, H. W., MD CM, FRCSCan †Clin. Asst.  
Kerr, J. W., MD CM †Clin. Asst.  
4 Teaching Fellows, 1 Clin. Tutor

### Urology

White, E. P., MD CM, FRCSEd †Asst. Prof.

## ADMINISTRATIVE AND OTHER STAFF

Dir. of Univ. Extension & Dir. of Summer  
Sch.: H. W. Curran, BS *Hobart (N.Y.)*, MA PhD  
*Mich.* Asst. Sec.: J. W. Bannister, BCom.  
Asst. Registrar: K. Jean Richardson, BA. Univ.  
Chaplain: Rev. A. M. Lavery, BA *Tor.*, BD  
*Emmanuel (Sask.)*. Warden, Students' Memorial

Union: J. E. Wright, MBE. Chief Proctor:  
R. L. Dorrance, MA. Med. Officer: H. M.  
Campbell, MD CM. Univ. Nurse: Mrs.  
Florence Paul. Curator, Agnes Etherington Art  
Centre: A. Bieler; Dir. of Radio: Margaret  
Angus, BA *Montana*.

## AFFILIATED COLLEGE

QUEEN'S THEOLOGICAL COLLEGE, Kingston,  
Ontario (tel.: Liberty 6-1731). Incorporated in  
1912. Religious denomination: United Church  
of Canada. Provides courses leading to testamur

in theol. and BD of the univ. Principal & Prof.  
of N.T. Lit. & Criticism—Rev. E. Andrews,  
BA *Dal.*, MA PhD *Drew*, BD *Pine Hill*, D Litt  
*Mt.All.* 4 other Profs., 2 Lectrs.

## GENERAL INFORMATION

Founded in 1841 by royal charter issued by  
Queen Victoria, the purpose of Queen's Coll. at  
Kingston was, under the sponsorship of the  
Presbyterian Church of Canada in connection  
with the Church of Scotland, to provide, within  
the country, trg. for the ministry and educnl.  
facilities for the youth of a growing economy in  
a vast area without such educnl. opportunities.  
When the 1st session began Queen's was the only  
active degree-granting coll. between the maritime  
provinces and the Pacific. It was modelled on  
the Univ. of Edinburgh, and Scottish academic  
influences have helped to mould its character.

As the coll. developed, its constitution was  
broadened by successive acts of parliament and  
the slender denominational requirements of 1841  
were gradually eliminated until in 1912 an act  
was passed by the dominion parliament removing  
all trace of denominational control. What had  
been the fac. of theol. became the indep. Queen's  
Theol. Coll. (see above) and the original Queen's  
Coll. became Queen's Univ. at Kingston, a  
national institution privately endowed and  
privately controlled.

In 1854 the medical fac. was establd.; it was  
reorganized in 1866 as the Royal Coll. of Physicians  
and Surgeons in affiliation with the univ., but in  
1891 the original status was resumed. Opened in  
1861, the fac. of law closed in 1864 and, after a  
further 3 yrs. of existence, again in 1883; as the  
result of a change in the regns. of the Law Soc. of  
Upper Canada and the reorg. of Osgoode Hall,  
the fac. was restored in 1957. A sch. of mining  
was founded in 1893 as a sep. instn. under an

Ontario charter, amalgamated with the univ. in  
1916 and now constitutes the fac. of appl. sci.  
The sch. of comm. & admin. was establd. in 1919,  
the sch. of nursing in 1942 and the sch. of phys. &  
health educn. in 1947.

CONSTITUTION. The admin. of the univ. is  
vested in the bd. of trustees, the univ. council,  
the senate and the fac. bds. The bd. of trustees  
is composed of the chancellor, principal and rector,  
representatives of the council, theol. coll., the  
grads. and benefactors, and 12 members selected  
by the bd. Its functions are to manage the  
finances and property, to procure legislation, to  
appoint instrs. and other officers on the advice of  
the principal, and to attend to such external  
matters as do not relate directly to instructn. The  
univ. council consists of the chancellor, the trust-  
tees, the senate and grads. elected from their own  
membership. The council discusses all questions  
relating to the univ. and makes representation of  
its views to the senate or bd. of trustees. The  
senate is made up of the principal, vice-principal,  
principal of the theol. coll., deans of facs., 3  
profs. from each of the facs. of arts & sci., appl.  
sci. and med., 1 prof. from the fac. of law, and 1  
prof. from the fac. of Queen's Theol. Coll. The  
senate determines all academic matters which  
concern the univ. as a whole, and enforces the  
statutes, rules and ordinances of the univ. The  
fac. bds., which have the power to administer their  
own affairs under such regns. as the bd. of trustees  
may prescribe, are each made up of the dean,  
profs., assoc. profs., asst. profs., lectrs. (in arts &

sci., after 1 yr.'s experience), and in the fac. of arts & sci., the univ. librarian.

**INCOME (1958-59).** Total income, \$4,409,000 (govt. grants, 43.9 per cent.; fees, 34 per cent.; endowment, 13.6 per cent.; misc., 8.5 per cent.).

**FACULTIES AND DEANS.** See p. 271.

**LIBRARY** (the Douglas library). 400,000 vols. Sp. collections: (1) Canadiana—Lorne Pierce collection (incl. rare items, MSS., 1st edns.), R. S. McLaughlin historical collection, Shortt-Haydon print & portrait collection; (2) John Buchan memorial collection—library and private papers of John Buchan, Lord Tweedsmuir; (3) McNicol collection—books and documents on telecommunication and radio. Music room contains musical scores, 3500 gramophone records. Agnes Etherington art centre arranges art exhibitions & discussions, and sp. classes in art.

**MUSEUMS.** Herbarium (35,000 spec.), geol., mineral., ethnol. (rich N. American stone age collection).

**LABORATORIES.** Biol., chem., geol., phys., engin. (mining, mech., metall., electr., civil). Easy access to important locomotive shops, dry docks, canal locks, water-power stations, mines, metallurgical works. Exceptional natural facilities for geol. study.

**HOSPITALS** available for clinics, 2 general, 1 for insane.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** 3 yrs. from sr. matric.—gen. BA. 4 yrs. from sr. matric.—BA with hons. (in classics, Engl., French, German, hist., maths., philos., pol. & econ. sci., psychol., Spanish); gen. BA & BPIIE; BSc with hons. (in biochem., biol., chem., geol. sci., phys., physiol.); BSc in engin. (chem., civil, electr., mech., metall., mining), geol. sci., phys., chem. (analyt. and appl.); BCom. 5 yrs. from sr. matric.—BNSc. 6 yrs. from sr. matric.—MD.

**HIGHER DEGREES.** 1 yr.—MA (in all subjs. in which an hons. BA may be taken), MSc (in all subjs. in which an hons. BSc or BSc in engin. may be taken). 2 yrs.—MSc(Med) (after MD), MBA (2 yrs. after completion of a degree from an approved univ.), PhD (after master's degree, all facs.); 3 yrs.—LLB (after BA), BD. Courses leading to these degrees are open to grads. of other univs.

**HONORARY DEGREES.** LLD, DD, DSc.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS, ETC.** 1 yr.—pub. health nursing; teaching & supervision in hosp. schs. of nursing; bus. admin.; grad. dipl. in engin.; nuclear engin. 3 yrs.—testamur in theol. 4 yrs., incl. trg. in recog. radiol. dept.—med. radiol. (DMR).

**FEES** p.a. (class, exam. and student interests) in arts & sci., \$404; comm., \$404; appl. sci., 1st & 2nd yrs., \$519; 3rd & 4th yrs., \$569; med., 1st & 2nd pre-med., \$424; 1st, 2nd, 3rd & 4th yr.

med., \$539; phys. & health educn., \$439; nursing, 1st yr., \$404; 2nd, 3rd & 4th yrs., \$10; 5th yr., \$424.

**ACADEMIC YEAR.** Winter session, 2 terms: Sept. to Dec., Jan. to May.

**UNIVERSITY EXTENSION.** Correspondence courses for teachers and others unable to pursue full degree courses in arts. Candidates for degrees must be in attendance at the univ. for 4 summer schs. (6 wks. in July and Aug.), or 2 winter sessions, or 1 winter session and 2 summer schs. and must complete within that period not fewer than 7 courses. The final written exams. are the regular univ. exams. Extension tutorial classes supplementing the work by correspondence are conducted by members of the univ. staff and others in various centres. Other activities organized or assisted by the dept. are: a series of public lectures at the univ.; a concert series; short courses and conferences which vary from vocational to cultural; individual lectures by members of staff; material provided for study groups and drama groups; an annual series of vocational and special interest talks given to inmates of Collins Bay and Kingston penitentiaries; evg. non-credit courses.

Banking courses lead to dipl. of associate or fellow of the Canadian Banking Assocn.; tuition is available by correspondence to members of Canadian banks. By agreement with the Ontario Institute of Chartered Accountants, Toronto, the tuition for their course, leading to the C.A.'s cert., is given by the univ.

**SUMMER SESSION.** Six wks., beginning early in July. Some credit courses are offered in entirety at the summer session; others have exercise requirements during May and June in prep. for lectures at the summer sch. Non-credit courses in ballet, painting and music are offered each yr. as sp. features in the summer sch. In addn., the Inst. d'Etudes Anglaises for French-speaking Canadians is offered each yr. (see 'Vacation Courses' below).

**VACATION COURSES.** Institut d'Etudes Anglaises is held each summer for 6 wks. and is intended particularly for French-speaking Canadians who wish to learn English. The sch. of the fine arts, incl. instrcn. in art, ballet, drama, speech arts and music, is held each summer for 6 wks.

**ENTRANCE SCHOLARSHIPS.** 10 provincial scholps., value \$2000 each; 9 Ontario matric. scholps., value \$1500 each; 8 Ontario matric. scholps., value \$900 each; 57 other scholps. ranging in value from \$20 to \$4000, incl. Dieppe scholp. \$350, awarded for man or woman whose father took active part in Dieppe raid; scholp. offered by Ontario Hockey Assocn., \$180; 3 General Motors Canadian scholps., ranging from an hon. award of \$200 to \$2000 p.a., Union Carbide Co. scholps., \$500 per yr. for each yr. of a complete academic course and Steel Co. of Canada Ltd. scholps., \$700 in 1st & 2nd yrs., \$500 in 3rd & 4th yrs., open to students entering

comm. and engin.; scholps. for Ontario students entering courses in sci., Assocn. of Professional Engineers for province of Ontario scholp., \$500, awarded in alternate yrs.; Lincoln High scholps. in engin., \$400; Dofasco scholp., \$2400 (\$600 p.a. for 4 yrs.); Anglo-Canadian Pulp and Paper Co. scholp., \$2400 (\$600 p.a. for 4 yrs.); Roy H. Davis scholp., \$4000 (\$1000 p.a. for 4 yrs.); Automatic Electric Co. scholp., \$2100 (\$600 in 1st yr., \$500 in 2nd, 3rd & 4th yrs.); Cyanamid scholp., \$600; Inco scholp., free tuition & cash grant of \$300; Thompson Prod. Ltd. scholps., \$2400 (\$600 p.a. for 4 yrs.); R. F. Segsworth scholp., \$850, payable over 4-yr. period; Canadian Bechtel bursary in engin., \$600; Canadian Vickers Ltd. scholp., \$2400 (\$600 p.a. for 4 yrs.).

'OPEN' POSTGRADUATE AWARDS. R. S. McLaughlin fellowships, 12 of \$1000-\$1500 plus grant of \$200 p.m. up to at least \$600 if res. extended beyond regular session, for grad. work in humanities, soc. scis., maths., biol. scis., geol. scis., chem., phys. and engin.; Steel Co. of Canada Ltd. fellowship, \$1500, for res. in ferrous metall.; C.I.L. fellowship in chem. and chem. engin., \$2000; J. Lindsley fellowship in econ. geol. & mineral, \$1600; Northern Electr. Co. fellowship, \$1500, for grad. work in electr., mech. engin., chem., phys.; Cominco fellowship, \$1000 for res. in non-ferrous metals, chemicals or fertilizers; Sir James Dunn scholp. in mining res., \$1000; Shell Oil fellowship, \$1200 plus \$600 if summer work undertaken, for grad. work in chem., chem. engin., mech. engin., geol., phys. and geophys.; R. S. McLaughlin teaching fellowships in mech. engin., 2 at \$2200, for grad. work in mech. engin., tenable for 2 yrs. Following fellowships carry with them addnl. awards to bring total value to \$750: Sir James Aikins fellowship in Canadian hist., \$400; Western Ontario grads. fellowship in hist., \$320; C. J. Hicks fellowship, \$600, for res. in indust. relns.; G. M. Milligan fellowship in philos., \$550; M. Hersey fellowship in chem., \$400; W. Neish fellowship in chem., \$400.

RESIDENCES (tel.: as for univ.). Ban Righ Hall (University Ave.), Adelaide Hall (University Ave.), new women's res. (Stuart St.) and annexes have rooms for 440 women students and refectory accomm. for 600. The annexes include Baker House, Goodwin House, Gordon House, Matheson House, Muir House, Macdonnell House. Board and lodging from \$525 to \$550 for full session. McNeill House, Morris Hall and Leonard Hall, the men's residences, are the first

3 units of a bldg. project which will eventually provide accomm. for most first-yr. men students and a proportion of upper-classmen selected to represent the various facs. and schs. There is accomm. for 610 men. Of the total 372 places available, about two-thirds are allotted to freshmen. Board and lodging for session from \$570 to \$600. Berry House and Collins House, operated by the Science Co-operative Inc., are open to men students of all facs. Room and board per wk. for session 1959-60 was \$14.50. Berry House and Collins House together accomm. 34 men students. Boucher House, a co-operative house for women students, accomm. 21.

STUDENTS' MEMORIAL UNION. Every male student is a member of the students' memorial union. The union has a dining-hall, lounge and billiard rooms, reading rooms, cttee. rooms and guest rooms for alumni and visitors to the univ.

MILITARY SERVICE. The univ. naval trg. div., the Canadian officers' trg. corps and the R.C.A.F. reserve univ. flight offer courses of trg. which extend over the greater part of a student's univ. course. Undergrads. may apply for a permanent commission under the regular officer trg. plan.

STUDENT HEALTH SERVICE. Students are expected to provide their own hosp. insurance through the Ont. Hosp. Services Comm. or other orgn. In addn., med., surg., anesthetic and nursing benefits are provided for all students through the univ. health service.

EMPLOYMENT SERVICE. The employment bureau assists grads. and undergrads. in all facs. to secure suitable positions, and helps students to obtain work during vacation periods.

ATHLETIC FACILITIES. Gymnasium with swimming pool of full Olympic size, large covered skating rink with artificial ice, and football field. Room and equipment for all students who wish to take part in football, hockey, badminton, basket-ball, field hockey, tennis, track athletics, archery, swimming, diving, boxing and wrestling. Good ski-ing about 5 mls. from the univ.

ALUMNI ORGANIZATION. General alumni assocn.: grads., 16,276.

PUBLICATIONS. *Calendars* (by facs.); *Admissions Bulletin*; *Scholarship Pamphlet*; *Fellowship Bulletin*; *Queen's Quarterly* (\$4 per yr.); *Queen's Journal*; *Queen's Review* (General Alumni Assocn. —\$4 per yr.); *Queen's University at Kingston* (descriptive booklet).

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Aluminum Co. of Canada Ltd., \$29,190; Atkinson Charitable Foundation, \$32,400; T. Eaton Co. Ltd., \$50,200; Eldorado Mining & Refining Ltd., \$33,729; Ford Foundation, \$34,000; R. Samuel McLaughlin Foundation, \$34,000; Internat. Nickel Co. of Canada Ltd., \$45,131; J. P.

Bickell Foundation, \$28,643; estate of M. B. Baker, \$81,650.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: pol. & econ. sci. bldg.; 3rd men's residence; 3rd women's residence.

RETIREMENTS. A. V. Douglas (dean of women);

R. O. Earl (dean of arts & sci. and prof. of biol.) ; A. R. M. Lower (prof. of hist.) ; N. Miller (prof. of maths.).

RESIGNATIONS. J. A. Edmison (asst. to principal) ; Prof. R. H. H. Lemon (geol. sci.) ; A. McGugan (geol. sci.) ; Carmie A. Perrotta (histol. & embryol.) ; Prof. D. T. Wright (civil engin.).

DEATHS. W. E. McNeill (vice-principal emer.) ; H. J. Styles (prof. of engin. drawing) ; T. V. Lord (prof. of metall.).

HONORARY DEGREES. *LLD*—C. T. Bissell, pres., Tor. ; C. W. Booth, dep. minister of educn. for Ont. ; H. Kennedy, chairman, Capital Planning Comm., Ottawa ; F. H. Underhill, curator, Laurier House, Ottawa ; R. W. I. Urquhart, chairman, Ont. Hosp. Comm. ; C. Wallace, pres., Burrard Dry Dock Co. Ltd., Vancouver. *DD*—Rev. J. I. MacKay, Toronto ; Rev. L. M. Outerbridge, Lennoxville, Que. *DSc*—A. Thunaes, manager, metall. div., Eldorado Mining & Refining Co.

In addn., there were 1000 students (477 m., 523 w.) in the 1959 summer sch.

Distribution by Faculties. *Appl. sci.*, 933 ; *arts and phys. & health educn.*, 111 ; *arts & sci.*, 1145 ; *comm.*, 95 ; *grad. studies*, 184 ; *indust. relns.*, 10 ; *med.*, 332 ; *nursing*, 55 ; *law*, 59. Total, 2924.

*Included in the intra-mural figures above are :—*

Postgraduate students, 184.

New admissions, 914.

Students from other countries, 203. (Countries from which largest numbers came : U.K., 37 ; U.S.A., 36 ; W. Indies Fed., 31).

DEGREES AWARDED (1958–59). *BD*, 3 ; *PhD*, 10 ; *MA*, 11 ; *BA (hons.)*, 56 ; *BSc (hons., arts & sci.)*, 42 ; *BA*, 218 ; *BCom*, 25 ; *MSc*, 35 ; *BSc (hons., engin.)*, 29 ; *BSc*, 246 ; *MSc(Med)*, 4 ; *MD CM*, 56 ; *BNSc*, 18 ; *BPIIE*, 10.

DIPLOMAS AWARDED (1958–59). *Pub. health nurs.*, 5 ; *teaching and supervision in hosp. schs. of nurs.*, 2 ; *bus. admin.*, 1 ; *nuclear engin.*, 1 ; *med. radiol.*, 1.

CERTIFICATES AWARDED (1958–59). *Indust. relns.*, 5.

## Statistics

### STUDENT NUMBERS, 1959–60

	<i>Extra-Mural, Extra-Mural,</i>		
	<i>Intra-Mural</i>	<i>Winter</i>	<i>Summer</i>
Men .	2161	766	366
Women .	763	631	257
Total .	2924	1397	623

# ROYAL MILITARY COLLEGE OF CANADA\*

Founded 1876

*Postal Address* : Kingston, Ontario, Canada

*Cables and Telegrams* : Royal Military College, Kingston, Ontario

*Telephone* (General Information) : Liberty 2-2841

**PRESIDENT**—THE MINISTER OF NATIONAL DEFENCE (*ex officio*)

**COMMANDANT**—Brigadier W. A. B. ANDERSON, OBE, CD

**VICE-COMMANDANT AND DIRECTOR OF STUDIES** - Col. W. R. SAWYER, OBE, MSc *Qu.*, PhD *McG.*, FCIC

**REGISTRAR AND SECRETARY OF THE FACULTY**—Lt.-Col. T. F. GELLEY, BA *Manit.*, MA *Qu.*

**STAFF ADJUTANT**—Lt.-Cmdr. J. G. MILLS, CD

**ADMINISTRATIVE OFFICER**—Lt.-Col. L. V. PERRY, MC, CD

**LIBRARIAN**—J. SPURR, BA BEd *Acad.*

## TEACHING STAFF

[† - Part-Time]

### Chemistry and Chemical Engineering

Sawyer, W. R., OBE, MSc *Qu.*, PhD *McG.*,  
FCIC Prof.  
Dacey, J. R., MBE, MSc *Dal.*, PhD *McG.*,  
FCIC Prof.  
Naldrett, S. N., MSc *Alta.*, PhD *McG.* Prof.  
Diaper, D. G. M., MA DPhil BSc *Oxon.*,  
FCIC Assoc. Prof.  
Jones, R. A., MSc *W.Ont.*, PhD *McG.*  
Assoc. Prof.  
Phillips, A. M., BSc *Lond.*, MSc *Clarkson* Lectr.  
Lundell, O. R., BA *Qu.*, PhD *M.I.T.* Lectr.  
Mann, R. F., BSc *Qu.* Lectr.  
McKenney, D. J., MSc *W.Ont.* Lectr.  
Gatzke, A. L., BA MSc *Br.Col.* Lectr.  
Furter, W. F., BSc *Tor.*, SM *M.I.T.*,  
PhD *Tor.* †Lectr.  
McCrady, J. C., BSc *Qu.* Tech. Officer

**Engineering, Chemical**, see Chem.

### Engineering, Civil

Dolphin, J. W., BASc *Br.Col.*,  
MS(CE) *Mim.* Prof.  
Ellis, J. S., BSc *Qu.*, MEng *McG.*,  
PhD *Camb.* Prof.  
Hughes, G. T., MSc *Alta.* Assoc. Prof.  
Geneau, Fl. Lt. J. A., BSc Asst. Prof.  
Derrick, Lt. A. S., BSc *McG.* Lectr.  
Stewart, Fl. Lt. J. A., BSc *Qu.* Lectr.  
London, T. A., BASc *Br.Col.* Lectr.  
Dahoney, W. J., BSc *New Br.* Lectr.

### Engineering, Electrical

Holbrook, Lt.-Col. G. W., BSc PhD *Lond.*,  
MSc *Qu.* Prof.  
Hetherington, F. E., MSc *Qu.* Prof.  
Broughton, M. B., BSc *W.Ont.*,  
MASc *Tor.* Asst. Prof.  
Tamowski, Sqn.-Ldr. H. J., BASc *Tor.*  
Asst. Prof.  
Cory, A. H. H., BSc *Lond.* Lectr.  
Simons, Capt. B. F., BSc *Qu.* Lectr.  
Winter, Lt. (1) D. A., BSc *Qu.* Lectr.  
Carruthers, Capt. F. R., MSc Lectr.

### Engineering, Mechanical

Blain, Sqn.-Ldr. C. E., BASc *Tor.* Assoc. Prof.  
Moore, Lt. (E) K. W., CD, BASc *Br.Col.*  
Asst. Prof.  
Raby, Capt. J. R., CD, BSc *Sask.*,  
MSE *Mich.* Asst. Prof.  
Leonard, Capt. A. C., MBE, BSc *Sask.*,  
MSE *Mich.* Asst. Prof.  
Pike, J. G., BSc *Qu.*, MSc *Birm.* Asst. Prof.  
Swartman, R. K., BSc *Qu.* Lectr.  
Warkentin, R. W., BSc *Qu.* Lectr.  
Gordon, J. R. M., BASc *Br.Col.* Lectr.  
Whitton, D. M., BSc *Qu.* Lectr.  
King, Lt.-Col. P. C., CD, BSc *Qu.* †Lectr.

### English

Avis, W. S., MA *Qu.*, PhD *Mich.* Assoc. Prof.  
Wilson, H. R., MA *Tor.*, PhD *Mich.* Asst. Prof.

\* Additional Member of the Association of Universities of the British Commonwealth

Beharriell, S. R., MA *Tor.*, PhD *Wis.* Asst. Prof.  
McAdam, J. I., BA *New Br.*, MA *Qu.*,  
PhD *Lond.* Asst. Prof.  
Benson, E. P., BA *N.U.I.*, MA *W.Ont.* Lectr.

**French**, see Mod. Langs.

**German**, see Mod. Langs.

### History

Stanley, G. F. G., BA *Alta.*, MA BLitt  
DPhil *Oxon.*, FRHistS, FRSCan Prof.  
Preston, R. A., MA *Leeds*, PhD *Yale*,  
FRHistS Prof.  
Cappadocia, E., MA *Tor.*, PhD *Chic.* Asst. Prof.  
Schurman, D. M., MA *Acad. & Camb.*,  
PhD *Camb.* Asst. Prof.  
Thompson, F. F., MA *Dal.*, DPhil *Oxon.*  
Asst. Prof.  
Pryke, K. G., BA *Car.*, MA *Duke* Lectr.

### Mathematics

Elliott, H. A., MA *Camb.*, PhD *Brist.* Prof.  
Davis, H. F., MSc PhD *M.I.T.* Assoc. Prof.  
Anthiff, W. B., BSc *McG.*, MA *New Br.*  
Asst. Prof.  
Hiscocks, J. D., MA *Tor.* Lectr.  
Gall, C. E., BAsc *Tor.* Lectr.  
Dignum, Fl. Lt. R., BSc *Lond.*, MSc *McM.*  
Lectr.  
Froese, J., BA *Manit.* Lectr.  
Rose, K., BA *Tor.* Lectr.

### Military Studies

Bayne, Sqn.-Ldr. R. J., DFC, CD Assoc. Prof.  
Smith, Major L. G. Assoc. Prof.  
Lav, Lt.-Cmdr. H. R. H. Assoc. Prof.

### Modern Languages

Lamontagne, Lt.-Col. J. L., BA *LèsL. Laval*,  
PhD *Ott.*, DUParis, FRSCan Prof.  
Lauzière, A. E., BA *Ott.*, MA *Montr.*,  
DUParis Asst. Prof.

Bessette, G. B., BA *LèsL. PhD Montr.* Asst. Prof.  
Labbé, G., BA *LèsL. Montr.* Asst. Prof.  
Rakus, A., MA PhD *Bratislava* Asst. Prof.  
Leroux, N., MA *Montr.* Asst. Prof.  
Therriault, J. A., BA *Ott.*, MA PhD *Laval*  
Asst. Prof.  
de Margerie, Y., BA *Ott.*, *LèsL. Laval* Lectr.  
Plastre, G., MA *Montr.* Lectr.

### Physics

Hutchison, T. S., BSc PhD *St.And.* Prof.  
Jackson, L. C., MSc *Lond.*, PhD *Ley.*, FIP Prof.  
Edwards, M. H., MA *Br.Col.*, PhD *Tor.*  
Assoc. Prof.  
Rogers, D. H. R., MSc *Dal.*, PhD *M.I.T.*  
Assoc. Prof.  
Baird, D. C., BSc *Edin.*, PhD *St.And.*  
Assoc. Prof.  
Paul, D. A. L., MA *Camb.*, PhD *Qu.*  
(on leave) Asst. Prof.  
Filmer, A. J., MSc *Alta.* Lectr.  
Pearse, C. D., MSc *Br.Col. & McG.* Lectr.  
Sherman, N. K., MSc *Qu.* Lectr.  
Lowther, L. H., BSc *Acad.* Tech. Officer

### Political and Economic Science

Malach, V. W., BA BCom *Qu.*, PhD *Lond.* Prof.  
Beck, J. M., MA *Acad. & Tor.*, PhD *Tor.* Prof.  
Brown, T. M., BA *W.Ont.*, MA *Tor.*,  
PhD *A.N.U.* Prof.  
Newcombe, C. W., BCom *Qu.* Assoc. Prof.  
Richards, J. H., BSc *Wales*, MA PhD *Tor.*  
Assoc. Prof.  
Cairns, J. P., BA *Tor.*, MA *Col.*,  
PhD *Johns H.* Asst. Prof.  
Bale, C. G., MA *McG.* Lectr.

### CADET ORGANIZATION

Mills, Lt.-Cmdr. J. G., CD O/C Cadet Wing  
Shackell, Lt. S. W. Offr. i/c P.T.  
Wallis, Fl. Lt. A. D. Sqn. Comd.  
White, Fl. Lt. A. M. J. Sqn. Comd.  
Bobinski, Capt. E. L., BA *Tor.* Sqn. Comd.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar : A. Rakus, MA PhD *Bratislava*.  
Dep. Admin. Officer : Major P. R. V. Carr-Harris, MC, CD. Asst. Admin. Officer (A) :  
Capt. R. S. Scoates, CD. Paymaster : Capt. J. C. Crosby, CD. Q.M. : Capt. D. M. Maxwell.  
Asst. Q.M. : Lt. J. Weir. Exec. Asst. to Commandant : Lt. W. R. Vallevand. Public Relns. Officer : Capt. C. G. Darling. Med. Officer : Surg. Cmdr. W. S. Patterson. Catering Officer : Lt.

W. W. Nutt. Dent. Officer : Capt. N. S. Gage, CD, DDS *Tor.* Protestant Chaplain : Capt. G. F. Bickley, LTh. Catholic Chaplain : Rev. P. R. McHardy. Asst. Librarians : J. D. P. Martin, BA *Qu.*, BLS *McG.* ; C. R. Watt, BA *Manit.*, BLS *McG.* Asst. Cataloguer : B. Laupacis, MJur *Riga*. General Library Assts. : V. Zolobka, BLS MA *Ott.* ; H. K. McGlade, BA *Ott.*

## GENERAL INFORMATION

The Royal Military Coll. of Canada originated in 1875 when the dominion govt. decreed that there be establd. 'an instn. for the purpose of

imparting a complete educn. in all branches of military tactics, fortification, engineering, and a general scientific knowledge in subjects connected

with and necessary to a thorough knowledge of the military profession, and for qualifying officers for command and for staff appts.' The site selected was the old naval dockyard on Point Frederick. The coll. was opened in 1876. The title 'Royal' was conferred in 1878. The coll. was closed for cadets from 1942 to 1948 but was used for officer courses. It was reopened for cadets in 1948 as a tri-service coll. Royal Roads was establd. in 1942 at Esquimalt, B.C., as a naval coll. and in 1947 was reorganized as a combined R.C.N.-R.C.A.F. coll. In 1948 it became a tri-service coll. Le Collège Militaire Royal de Saint-Jean was opened in 1952 at Saint-Jean, P.Q., to meet the needs primarily of French-speaking cadets. It also is a tri-service coll.

The purpose of the coll., as well as of Royal Roads and Le Collège Militaire Royal de Saint-Jean, is to train cadets in the moral, mental and physical requirements for entry into the commissioned ranks of the sea, land and air forces. The moral trg. includes the devel. of the essential characteristics of discipline and leadership. Mental trg. includes the fundamental military and scientific knowledge required in all branches of the service and in particular of the technical corps, and provides a balanced and liberal educn. in arts and scis.

**CONSTITUTION.** The Royal Military Coll., Royal Roads and Le Collège Militaire Royal de Saint-Jean are administered by the dept. of natnl. defence, and the minister of natnl. defence is, *ex officio*, pres. of the coll. The arts, sci. and engin. facs. operate as a joint fac. under a dir. of studies.

**LIBRARY.** 72,000 vols.

**LABORATORIES.** Chem., phys.; civil, electr., mech. and chem. engin.

**ADMISSION.** See Appendix II.

**DEGREES.** In 1959 an act of the Ontario legislature empowered the coll. to grant degrees and hon. degrees in arts, sci. and engin. Degrees in arts and gen. sci. were first conferred in May 1959; degrees in hon. sci. and engin. will be conferred only from 1962 after course adjustments have been made.

**DIPLOMAS** are awarded on completion of a 4-yr. course in hon. sci., engin. and engin. phys., and cadets in these options may enter the degree yr. at Canadian univs.

**COURSES.** For cadets entering Royal Military Coll. the course is of 4 yrs.' duration. Cadets who complete first 2 yrs. at Royal Roads proceed for last 2 yrs. of the arts, sci., or engin. courses to

Royal Military Coll. For cadets entering Le Collège Militaire Royal de Saint-Jean, the course is of 5 yrs.' duration, the last 2 yrs. of which are taken at Royal Military Coll.

Courses offered are of 3 types, (a) 4 yrs.: BA pass, hon., (b) 4 yrs.: BSc pass, hon., (c) engin. A cadet may specialize in his 2nd yr. in one of arts, gen. sci. or engin., and in his last 2 yrs. in one of civil, chem., mech., electr. engin. or engin. phys.; specialization in arts and sci. in 3rd and 4th yrs. is offered in comm., econ., Engl., French, hist., maths., phys., pol. & econ. sci., pol. & geog.

**MILITARY OBLIGATION.** Each cadet must undertake to serve after graduation as a commissioned officer in one of the three armed services, in either active or reserve forces. Cadets with reserve force status are at present restricted to those who can qualify for dominion cadetships. All other applicants must enrol under the Regular Officer Trg. Plan, introduced in 1952. All applicants accepted under the plan for entry in Canadian services colls. are enrolled as naval cadets in Royal Canadian Navy, as officer cadets in Canadian Army, or as flight cadets in Royal Canadian Air Force. On successful completion of their academic and military trg. such cadets will be promoted to commissioned rank in regular force. The privilege of release, if desired, will be granted after 3 yrs. of commissioned service. The cost of tuition, bd., uniforms, books, instruments and other essential fees will be borne by dept. of natnl. defence; a cadet will receive \$63 a month and allowances, with free med. and dent. care and annual leave with pay and allowances.

**FEES.** Except for R.O.T.P. cadets, 1st yr.—\$550, covering tuition, residence, uniforms, books, etc.; each subsequent yr.—\$300. Annual recreation, \$30; annual contingency fund, \$100, of which unexpended portion is refundable.

**SUMMER TERM.** All cadets are required to attend a trg. centre of the service of their choice in order to obtain the necessary service qualifs.

**RESIDENCE.** All cadets are in uniform and live in residence. Three blocks, providing 400 single and dble. rooms.

**SUMMER SERVICE SCHOOLS.** R.M.C. facilities are used in the summer months for jr. officers' courses, C.O.T.C., and other qualifying courses.

**PUBLICATIONS.** *Calendar* (annual); *Admission Requirements* (annual); *Cadet Handbook* (annual); *The R.M.C. Review* (annual); *The Marker* (bi-weekly).

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* library & educnl. bldg.; officers' mess; hockey rink; annex to civil engin. bldg.

**RESIGNATIONS.** Commodore D. W. Piers (com-

mandant); Fl. Lt. J. R. Rundle (civil engin.); Fl. Lt. J. P. Pagnutti (mech. engin.); Lt.-Comdr. (P) R. V. Bays (military studies); Fl. Lt. H. L. Broughton; Capt. C. J. Crowe; Capt. R. S. Peacock (cadet orgn.); Capt. D. W. Emberley

(Q.M.); Major J. F. Haley (med. offr.); Capt. F. W. Redstone (catering offr.); service appts. Fl. Lt. B. A. Bowen (electr. engin.); W. D. Ryan (electr. engin.), apptd. asst. prof., Belf.; A. Daigneault (maths.), apptd. asst. prof., Ott.; K. D. Fryer (maths.), apptd. prof., Waterloo Univ.; D. G. Wertheim (maths.), apptd. assoc. prof., Waterloo Univ.; S. R. Easson (mech. engin.); G. W. Vosper (mech. engin.); A. H. LeGrand (mod. langs.), apptd. assoc. prof., Qu.; A. Asimakopulos (pol. & econ. sci.), apptd. to McG.; C. E. Wood (pol. & econ. sci.); F. D. Simpkin (civil engin.); Dr. J. Dooley (Engl.), apptd. asst. prof., St. Michael's Coll., Toronto; R. T. O'Shaugnessy (chem. engin.); Capt. I. N. Nicholson (civil engin.); D. S. Miller (mech. engin.).

DEATHS. Dr. P. Lowe (prof. of maths. & hd. of dept.); J. F. Twiss (prof. of maths.).

HONORARY DEGREES. *LLD*—Rt. Hon. J. G. Diefenbaker, prime minister of Canada; Col. S. H. Dobell, admin. staff, McG. *DScMil*—Gen. C. Foulkes, chairman, chiefs of staff.

### Statistics

#### CADET NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men only	429	—

(Plus Royal Roads, 179; Collège Militaire Royal de Saint-Jean, 367).

New admissions (included above), 68.

DEGREES AWARDED (1958-59). BA, 36; BSc, 8.

DIPLOMAS AWARDED (1958-59). Engin., 85.



# SAINT DUNSTAN'S UNIVERSITY\*

Founded 1855

*Postal Address* : Charlottetown, Prince Edward Island, Canada

*Cables and Telegrams* : St. Dunstan's University, P.E.I.

*Telephone* : Charlottetown 3762

CHANCELLOR—Most Rev. M. A. MacEachern, PhD *Louvain*, DD *Montr.*, Bishop of Charlottetown

PRESIDENT—Rt. Rev. J. A. Sullivan, MA *C.U.A.*

REGISTRAR—Rev. E. J. Roche, MSc *Notre Dame*

LIBRARIAN—Rev. A. F. MacDonald, BLS *Tor.*, BA

## TEACHING STAFF

### Biology

Ellsworth, Rev. R. G., DD *Laval*,  
MSc *C.U.A.*  
Cheverie, Rev. C., MSc *C.U.A.*

Prof.  
Prof.

### Chemistry

Cass, Rev. F. J., BSc *McG.*  
Duffy, Rev. R., MSc *Fordham*

Prof.  
Prof.

### Commerce

Murnaghan, Rev. V. G., MCom *Tor.*

Prof.

### Economics

Murphy, J. C., PhD *C.U.A.*

Prof.

### Education

Ida, Sister Mary, MA *Ott.*  
Sharkey, Rev. O. C., MA *Dal.*

Prof.  
Prof.

### Engineering

Kawaja, D. J., BE *N.S.T.C.*  
MacDonald, Rev. A. C., BSc  
Ledwell, Rev. F. J., BA

Prof.  
Assoc. Prof.  
Assoc. Prof.

### English

O'Grady, B. A., AM *Col.*, PhD *Ott.*  
MacIntyre, Rev. W., MA *Ott.*

Prof.  
Assoc. Prof.

### French

Pineau, Rev. J. W., MA *Laval*  
Arsenault, Rev. A., BA

Prof.  
Assoc. Prof.

### History

MacGuigan, Rev. W. J., MA *C.U.A.*  
Bolger, Rev. F. W. P., PhD *Tor.*

Prof.  
Prof.

### Latin and Greek

Kelly, Rev. J. R., BA

Prof.

### Mathematics

Roche, Rev. E. J., MSc *Notre Dame*  
Arsenault, G., BSc

Prof.  
Assoc. Prof.

### Philosophy

MacLellan, Rev. T. M., STD *Montr.*,  
PhD *Laval*  
Landrigan, Rev. L. W., BA  
Green, J. E., BA MSW *C.U.A.*

Prof.  
Assoc. Prof.  
Assoc. Prof.

### Physics

MacDonald, Rev. G. A., MSc *Dal.*

Prof.

### Religion

MacDonald, Rev. A. F., BLS *Tor.*, BA

Prof.

### Sociology

Murphy, J. C., PhD *C.U.A.*

Prof.

## ADMINISTRATIVE AND OTHER STAFF

Bursar : Rev. F. P. Aylward, BA. Coll.  
Physician : H. A. MacMillan, MD CM *Ott.*  
Dean of Men : Rev. G. A. MacDonald, MSc *Dal.*  
Fac. Adviser on Athletics : F. J. Ledwell, BA.  
Dirs. of Discipline : Rev. A. F. MacDonald, BLS  
*Tor.*, BA ; Rev. F. W. P. Bolger, PhD *Tor.* ; Rev.

F. A. Cameron, BA. Cttee. on Studies : Rev.  
E. J. Roche, MSc *Notre Dame* ; D. J. Kawaja,  
BE *N.S.T.C.* ; Rev. V. G. Murnaghan, MCom  
*Tor.* ; Rev. F. L. Cass, BSc *McG.* ; Rev. F.  
Ledwell, BA. Dir. of Extension Work : Rev.  
W. P. MacIntyre, MA.

\* Member of the Association of Universities of the British Commonwealth

## GENERAL INFORMATION

St. Dunstan's Univ., opened in 1855, was by act of the Prince Edward Island legislature granted a charter in 1917 as a univ. 'with all and every the usual rights, powers, and privileges of such an institution'. From 1892 to 1940, by virtue of affiliation with Laval Univ., the degrees of that institution were conferred on all those who completed the St. Dunstan's courses and successfully passed the exams. given by Laval Univ., but since 1940 the powers of its charter have been exercised in full and independent action. English is the official language used in lectures. St. Dunstan's is the diocesan univ. of the Roman Catholic diocese of Charlottetown and is co-educational.

**CONSTITUTION.** The pres. has charge of the general admin. of the univ. In the discharge of his duties he is subject to the bd. of governors under the chairmanship of the bishop of the diocese of Charlottetown, and is assisted by the officers of the staff in matters pertaining to studies, discipline and finances.

**FACULTY AND DEAN.** *Arts, sciences & comm.*, Rev. E. J. Roche (maths.).

**ADMISSION.** See Appendix II.

**DEGREES.** 4 yrs.—BA, BSc, BCom. No honours degrees or higher degrees awarded.

**CERTIFICATE.** Engin., 3 yrs.; admits to 4th year of 5-yr. course at Nova Scotia Tech. Coll.

**FEES.** Tuition, board, \$550 p.a.

**RESIDENCES.** 3 residences for male students (Main Building, Dalton Hall and Memorial Hall), each accomm. about 80 students, and 1 for female students (Marian Coll.), accomm. 60. Fees per room—\$60 p.a. For directors of discipline. *see* 'Admin. and Other Staff', *above*.

**MILITARY FORMATIONS.** The Canadian officers' trg. corps has a contingent on the campus and offers to selected students an opportunity to qualify for commissions in the Canadian army. The univ. naval trg. div. also has a branch on the campus through which students may qualify for commissions in the Royal Canadian navy (reserve).

**ATHLETICS.** Principal athletic activities are football, hockey and basket-ball, and ample facilities are provided for these in football fields, an indoor skating rink and a large gymnasium.

**STUDENTS' UNION.** The union co-ordinates all organized student activities, such as athletics, dramatics, debating, the publishing of the students' magazine, etc.

**PUBLICATIONS.** *Calendar* (June); *Red and White* (students' publication), 3 times yrly.; *Alumni Bulletin*, 4 times yrly.

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	298	1
Women . .	54	2
Total . .	352	3

Distribution by Faculties. *Arts*, 130; *comm.*, 51; *engin.*, 51; *sci.*, 123. Total: 355.

*Included in the figures above are :-*

Postgraduate students, nil.

New admissions, 176.

Students from other countries, 53. (Country from which largest number came, U.S.A.).

**DEGREES AWARDED (1958-59).** BA, 15; BSc 8; BCom, 5.

# ST. FRANCIS XAVIER UNIVERSITY\*

Founded 1853

*Postal Address* : Antigonish, Nova Scotia, Canada

*Cables and Telegrams* : University, Antigonish, Nova Scotia

*Telephones* : Antigonish 273, 237, 358, 1139

CHANCELLOR AND *ex-officio* CHAIRMAN OF THE BOARD OF GOVERNORS—Most Rev. W. E. POWER, DD, Bishop of Antigonish

PRESIDENT EMERITUS—Rt. Rev. P. J. NICHOLSON, PhD *Johns H.*, LL.D DSc

PRESIDENT—Rt. Rev. H. J. SOMERS, PhD *C.U.A.*, FRHistS

VICE-PRESIDENTS—Rev. C. H. BAUER, BA ; Very Rev. F. J. SMYTH

PRINCIPAL, XAVIER JUNIOR COLLEGE—Rt. Rev. M. A. MACLELLAN, PhD *C.U.A.*

DEANS—Dean of Studies—Rev. C. H. BAUER, BA ; Dean of Student Affairs—Rev. F. J. GINIVAN, PhD *Notre Dame* ; Dean of Freshmen—Rev. M. J. GILLIS, BA

REGISTRAR—Rev. W. X. EDWARDS, BA

BURSAR—Rev. J. V. CAMPBELL, BA

DIRECTOR OF RELIGIOUS ACTIVITIES—Rev. G. A. MACKINNON, BA

LIBRARIAN—Sister REGINA CLARE, BLS *Tor.*

DIRECTOR OF UNIVERSITY EXTENSION—Rev. J. A. GILLIS, BA

## TEACHING STAFF

### Biology

Chiasson, L. P., PhD *Tor.* Prof.  
Rousell, Rev. G., MS PhD *Fordham* Asst. Prof.  
Thompson, R., MSc *W.Ont.* Asst. Prof.

### Celtic Studies

MacLeod, Major C. I. N., MA *Edin.* Assoc. Prof

### Chemistry

Foley, W. T., PhD *Laval* Prof  
MacDonald, J. J., PhD *Tor.* Assoc. Prof  
Secco, E. A., PhD *Laval* Assoc. Prof  
Berry, Rev. P. Asst. Prof  
Gillis, H., PhD *Notre Dame* Asst. Prof  
Bunbury, D., PhD *Notre Dame* Asst. Prof

### Classics

Power, Rev. G., PhD *Harv.* Prof  
Roach, Rev. T., BA Lectr

### Economics, Sociology, Political Science, Commerce

Sister St. Mary Donald, AM *Col.* (Comm.) Prof.  
Kilbride, B. J., MBA *Col.* (Comm.) Assoc. Prof.  
Sears, J. T., MBA *Detroit* (Comm.) Assoc. Prof.  
Kontak, W., BA *Oxon.* (Pol. Sci.) Assoc. Prof.  
Miffien, Rev. P. S., MA *C.U.A.* (Econ.) Assoc. Prof.

Woodfine, W. J., MA *McG.*, PhD *M.I.T.* (Econ.) Assoc. Prof  
Kane, J., MA *St.Louis* (Sociol.) Lectr.

### Education

Campbell, Rev. D. F., MA PhD *C.U.A.* Assoc. Prof  
Sister St. Michael, MA *Tor.*, PhD *Fordham* Assoc. Prof  
MacLean, Rev. M., MS in Educn *Fordham* Asst. Prof.

### Engineering

Fogarty, Rev. W. P., BSc *McG.* Prof.  
MacDougall, J. H., BE *N.S.T.C.* Assoc. Prof  
Roy, A. H., MSc *Birm.* Asst. Prof.

### English

Bannon, Rev. R. V., MA Prof.  
Edwards, Rev. W. X., BA Assoc. Prof.  
MacSween, Rev. R., BA Assoc. Prof.  
Brunelle, Y. G., MA *Harv.* Asst. Prof.  
MacLellan, Rev. V., BA Asst. Prof.  
O'Connell, B., BA Instr.  
Reed, J. K., MA *C.U.A.* Lectr.  
Sister St. Arthur, MSc *Col.* Lectr.

### French

MacLean, C. D., DU*Paris* Prof.

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Douron, L., MA *Montr.*  
 Babu, J.-W., MA *Laval*  
 Sister St. William, BA BEd

Assoc. Prof.  
 Asst. Prof.  
 Lectr.

Monahan, E. J., LMS *Pontif. Inst., Tor.*,  
 PhD *Tor.*  
 Gatto, Rev. E., MA *Tor.*

Assoc. Prof.  
 Asst. Prof.

### Geology

MacNeil, D. J., PhD *Prin.* Prof.  
 Keating, B. J., PhD *McG.* Prof.  
 Cormier, R., PhD *M.I.T.* Asst. Prof.  
 Whitehead, W. L., PhD *M.I.T.*, DSc Visiting Prof.

### German

Bauer, Rev. C. H., BA Prof.

### History

MacDonell, Rev. M., MA *Tor.* Prof.  
 Sister St. Veronica, MA *C.U.A.* Prof.  
 Somers, Rt. Rev. H. J., PhD *C.U.A.*,  
 FRHistS Prof.  
 O'Keefe, Rev. L., MA *Notre Dame* Asst. Prof.

### Mathematics

McKenna, Rev. L. G., MA Prof.  
 Givan, Rev. F. J., PhD *Notre Dame*  
 Assoc. Prof.  
 Nicholson, D., BSc Instr.

### Music

Egan, J., PhD *Indiana* Assoc. Prof.  
 Sister St. Michael of the Eucharist,  
 MMus *NewEng.Cons.* Assoc. Prof.

### Philosophy

MacDonald, Rev. C. R., PhD *Laval* Prof.  
 Gillis, Rev. J. H., PhD *C.U.A.* Assoc. Prof.

### Physics

Clarke, Rev. E. M., DSc *Laval* Prof.  
 Olmos-Weingartshofer, A., DSc *Laval*  
 Asst. Prof.  
 Hubisz, J., BSc Instr.  
 Penny, G., BE *N.S.T.C.* Instr.

### Political Science, see Econ.

### Psychology

MacNeil, Rev. F. X., BA Lectr.

### Religion

MacKinnon, Rev. G. A., BA Assoc. Prof.  
 Campbell, Rev. J. V., BA Lectr.  
 Gaul, Rev. F., BA Lectr.  
 Gillis, Rev. M. J., BA Lectr.  
 Graham, Rev. J., BA Lectr.  
 Kennedy, Rev. D., BA Lectr.  
 MacFarlane, Rev. J. D., BA Lectr.  
 MacLean, Rev. L., BA Lectr.

### Sociology, see Econ.

### Spanish

McIver, Rev. J. J. Lectr.

### EXTENSION DEPARTMENT

Chiasson, R. J., MA *Col.*, PhD *Lond.* Assoc. Prof.  
 2 Lectrs.; 12 Field Workers; Field  
 Specialist; Housing Specialist; 2  
 Field Supervisors

## ADMINISTRATIVE AND OTHER STAFF

Asst. to President for Alumni Relations: Rev.  
 D. MacCormack, DD *Laval*. Business Manager:  
 C. R. Chadwick. Public Relns. Officer: B.  
 O'Connell, BA. Assoc. Prof. of Phys. Educn.:

A. MacAdam, MPE *Springfield*. Resident Staff  
 Officer: Capt. M. D. Kearney. Dir. of Place-  
 ment: D. J. Loney.

## ASSOCIATED INSTITUTION

Recommended grads. are accepted by the  
 MARITIME SCHOOL OF SOCIAL WORK, Halifax,  
 as candidates for the degree of Master of Social  
 Work (MSW). This degree is granted by St.  
 Francis Xavier Univ. to candidates who success-

fully complete the 2-yr. postgrad. curriculum  
 prescribed by the sch. Dir.—L. T. Hancock,  
 MA *Chc.* & K.C.N.S., BSW *McG.* (tel.:  
 Halifax 3-6907).

## AFFILIATED INSTITUTIONS

XAVIER JUNIOR COLLEGE, George St., Sydney,  
 N.S. (tel.: Sydney 6418). Principal—Rt. Rev.  
 M. A. MacLellan, PhD *C.U.A.* First 2 yrs. in any  
 fac. of the coll. are recognized by univ.

(tel.: Antigonish 74). Superior—Sister St.  
 Winnefride. Women's residence.

ST. MARTHA'S HOSPITAL SCHOOL OF NURSING,  
 Antigonish, N.S. (tel.: Antigonish 54). Supt. of  
 Nurses—Sister Mary Calvary. Students com-  
 plete 3 yrs. of nursing trg. required for BSc  
 Nursing.

MT. ST. BERNARD COLLEGE, Antigonish, N.S.

## GENERAL INFORMATION

The univ. was founded in 1853 in Arichat by the Rt. Rev. C. F. MacKinnon, bishop of the diocese of Arichat, and subsequently moved to its present location at Antigonish. Full univ. powers were conferred by the province of Nova Scotia in 1866. The univ. is under the direction of the Catholic church, but there are no religious tests for entrance or for degrees. Permanent bldgs. were begun in 1880.

In 1894 Mt. St. Bernard Coll., founded in 1883, was affiliated with the univ. The univ. extension dept. was organized in 1929. In 1951 Xavier Junior Coll. was establd. in Sydney, N.S., as an integral part of the univ.

**CONSTITUTION.** The bd. of governors is composed of: bishop of Antigonish, *ex officio* chairman; pres. of univ., *ex officio* vice-chairman; bursar of univ., sec.-treasurer; dir. of extension dept.; principal of Xavier Jr. Coll.; 7 members elected each yr. for a 3-yr. term by the bd. itself; 3 members elected by fac. of univ.; 3 members elected by priests of diocese of Antigonish; 3 members elected by alumni assocn. By the constitution the members of the bd. must represent every main group in society: miners, steel workers, teachers, professl. people, businessmen, etc. The bd. has authority over all matters of property and finance. The fac. of the univ. has final authority over all academic matters.

The pres. of the univ. is apptd. by the bishop of Antigonish for a 6-yr. term after a consultative vote by the members of the bd. of governors and the members of the univ. fac.

**INCOME** (1958-59). Student academic fees, 45.8 per cent.; endowments (net), 3.3 per cent.; govt. grants, 42.8 per cent.; gifts & misc., 8.1 per cent.

**LIBRARY.** 73,000 vols.

**LABORATORIES.** Biol., chem., engin., geol., phys.

**ADMISSION.** See Appendix II.

**ADMISSION TO PARTIAL OR SPECIAL COURSES.** In particular cases students who are not candidates for degrees may be permitted by the cttee. on admissions to enrol in any course from which, in the judgment of the cttee., they will profit.

**FIRST DEGREES.** 4 yrs.—BA, BSc, BCom, BSc(HEc); 5 yrs.—BSc hons. (in chem., geol., phys.), BScN. 'Two yrs.' (for teachers, 1 yr.'s) residence required for degree. No BA hons. degree.

**HIGHER DEGREES.** BEd, 1 yr. postgrad.; MSW, 2 yrs. at Maritime Sch. of Soc. Work (see p. 287) beyond bachelor's degree; MA in chem., geol. or soc. sci., MA in teaching, MEd.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Engin., 3 yrs.; admits to 4th year of 5-yr. course at Nova Scotia Tech. Coll. and other engin. schs. Sr. dipl. in educn. for

students who successfully complete 3 academic yrs. in arts, sci. or comm., plus 1 academic yr. of a professional course in teacher trg.; qualifies for teacher's professional cert. class III (general) of N.S. Jr. dipl. in educn. for students who successfully complete 2 academic yrs. in arts, sci. or comm. plus 1 academic yr. of a professional course in teacher trg.; qualifies for teacher's license class I (general) of N.S. Soc. leadership, 1 calendar yr.: 8 mos.' academic study, and remainder in field work under supervision of extension dept.

**GENERAL FEES.** *First semester:* bd., \$192; tuition, \$165; room rent, \$80; laundry, \$16; library, \$15; general fee, \$30; equipment replacement, \$10; med. & surg. attendance, \$9; hospitalization fee, \$8. *Second semester:* bd., \$192; tuition, \$165; room rent, \$80; laundry, \$16.

MT. ST. BERNARD COLLEGE offers specialized trg., not leading to a degree or dipl., in arts & crafts, music, dramatics and secretarial sci. (2 yrs.).

**SUMMER COURSES.** St. Francis Xavier summer sch., vacation sch. in soc. action. Various short courses sponsored by the extension dept. of the univ.

**EXTENSION DEPARTMENT,** which sponsors a programme of adult educn. known as the Antigonish movement, is separately staffed and educates by means of study clubs, films, radio programmes and by correspondence. It has vastly improved the economic state of fishermen, farmers and indust. workers in the Canadian maritime provinces by the establt. of co-operatives and credit unions, and its work has been recog. by outstanding foundations which have given substantial assistance. It sponsors various courses on the campus and awards to students a dipl. in soc. leadership, on completion of a 2-yr. course on the principles and methods of the extension movement.

General programme of adult educn. chiefly for primary producers and indust. workers in the maritime provinces; promotion of credit union and co-operative activities among these groups. Educnl. work among fishermen of the maritimes under grant from dept. of fisheries. Short courses throughout maritime provinces. Leadership course and vacation sch. for seminarians conducted at Antigonish. About 800 adults in 9 communities in indust. classes connected with the people's sch. programme. Specialists working on co-operative housing, land settlement and labour educn. Extension library and film service.

**SCHOLARSHIPS, ETC.** Knights of Columbus scholps., 10 to 12 annually, \$200 each; 10 Rev. R. McInnis scholps. of \$200 and under each; 4 French scholps. annually, \$200 each; various other scholps., bursaries and prizes.

The dept. of educn. of N.S. offers 10 scholps. of \$500 each tenable by grads. who intend to

take the BEd course of the univ. The govt. of N.S. is prepared to make loans up to \$500 and to pay tuition fees for the yr. of professional trg. to teachers-in-trg. who agree to teach in the public schs. of N.S. for 2 yrs.

**RESIDENCE.** Cameron Hall (200 students), McKinnon Hall (175), Xavier Hall (150), Mockler Hall (150), Sancian Hall (50), Acadia Lodge (30). Fees, incl. room and bd. : \$898.

**PHYSICAL TRAINING.** Gymnasium; skating rink; stadium.

**MILITARY TRAINING.** Establd. to select and train suitable young univ. students for com-

missioned rank in the regular and reserve components of Royal Canadian navy, Canadian army, and R.C.A.F. respectively: univ. naval trg. division (U.N.T.D.), Canadian officers' trg. corps (C.O.T.C.) and univ. reserve trg. plan (U.R.T.P.).

The STUDENTS' UNION is the recog. means of communication between the fac. and the student body. It is designed to co-ordinate and control all extra-curricular student activities. Every student is a member.

**PUBLICATIONS.** *Calendar* (July); *Xaverian*, weekly, and *Xaverian Annual* (students' publicns.); *Alumni News*, 3 times yrly.

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men	1154	84
Women	276	265
	---	---
'Total	1430	349

Distribution by Faculties, etc. *Arts*, 529; *comm.*, 185; *educn.*, 62; *engin.*, 277; *home econ.*, 41; *hons. sci.*, 49; *master's programme*, 3; *nursing*, 3; *sci.*, 209; *secretarial studies*, 43; *soc. leadership*, 7; *sp. course*, 20. Total : 1430.

*Included in the figures above are :—*

Postgraduate students, 43.

Students from other countries, 216. (Country from which largest number came : U.S.A., 171).

**DEGREES AWARDED (1958-59).** MA, 6; BA, 86; BSc, 51; BSc hons., 5; BScN, 1; BSc (HEc), 7; BCom, 22; BEd, 37; MSW, 2.

**DIPLOMAS AND CERTIFICATES AWARDED (1958-1959).** Educn., 16; engin., 59; soc. leadership, 9.

# SAINT JOSEPH'S UNIVERSITY

Founded 1864 ; institution for Commerce, Sciences, Civil Engineering and  
Education, founded 1953

## ARTS

*Postal Address* : St. Joseph, New Brunswick, Canada

*Telephone* : Memramcook Exchange TU 8-2511

SUPERIOR—Rev. R. LAVOIE, BA

ASSISTANT SUPERIOR—Rev. T. BLANCHARD, BA LTh

SECRETARY-GENERAL—Rev. R. ROSSIGNOL, BA

DEAN OF STUDIES AND REGISTRAR—Rev. R. E. SOUCIE, MA

DEANS—ENGLISH—Rev. J. MACDONALD, BA ; FRENCH—  
*Montr.*

LATIN—Rev. L. GAUDET, LèsL

TREASURER—Rev. Br. A. MORIN, BL BEd

LIBRARIAN—Rev. Br. O. CORMIER

## TEACHING STAFF

### Accounting

Cadieux, J., LScCom *Montr.*

Prof.

Waugh, Rev. O., BA *St.M.*, MA *Notre Dame*

Prof.

Soucy, A., LPh

Prof.

### Astronomy

Blanchard, Rev. T., BA LTh

Prof.

### French

Gaudet, Rev. L., LèsL *Montr.*

Prof.

Blanchard, Rev. T., BA LTh

Prof.

### Classics: Latin

Gaudet, Rev. L., LèsL *Montr.*

Prof.

Blanchard, Rev. T., BA LTh

Prof.

MacDonald, Rev. J., BA

Prof.

Soucie, Rev. R. E., MA

Prof.

Kingston, Rev. L., BA

Prof.

Waugh, Rev. O., BA *St.M.*, MA *Notre Dame*

Prof.

### Guidance

Desjardins, Rev. R. L., BA MEd

Prof.

### Mathematics

Soucie, Rev. R. E., MA

Prof.

Dionne, Rev. R., BA

Prof.

LeBlanc, R., MSc *Notre Dame*

Prof.

### English

MacDonald, Rev. J., BA

Prof.

Kingston, Rev. L., BA

Prof.

### Physics

Dionne, Rev. R., BA

Prof.

## COMMERCE, SCIENCES, EDUCATION, CIVIL ENGINEERING

*Postal Address* : 80 Church St., Moncton, New Brunswick, Canada

*Telephone* : Moncton EV 4-5549

PRESIDENT—Rev. C. CORMIER, SThL *Montr.*, LLD *New Br.*, BScSoc *Laval*

VICE-PRESIDENT—Rev. R. ROSSIGNOL, BA

SECRETARY-GENERAL AND TREASURER—Rev. O. FERGUSON, LScCom *Montr.*

DEAN OF STUDIES—Rev. R. ROSSIGNOL, BA

DEANS—CHEMISTRY—B. T. NEWBOLD, PhD *Laval* ; COMMERCE—Rev. O. FERGUSON, LScCom *Montr.* ;  
 EDUCATION—Rev. Br. L. TAILLON, MA BED *Montr.* ; ENGINEERING—D. MCCRAE, BSc *New Br.* ;  
 PHYSICS—R. LeBLANC, MSc *Notre Dame* ; SCIENCES—Rev. J. B. CORMIER, LSc *Montr.*  
 LIBRARIAN—R. LeBLANC, BA

## TEACHING STAFF

<b>Accounting</b>		<b>Guidance</b>	
Cadieux, J., LScCom <i>Montr.</i>	Prof.	Tippett, R.	Prof.
Ferguson, Rev. O., LScCom <i>Montr.</i>	Prof.		
<b>Astronomy</b>		<b>Human Anatomy</b>	
Cormier, Rev. J. B., LSc <i>Montr.</i>	Prof.	Grondin, G., MD	Lectr.
<b>Biology</b>		<b>Income Tax</b>	
Rossignol, Rev. R., BA	Prof.	Melanson, R., MScCom	Lectr.
<b>Chemistry</b>		<b>Mathematics</b>	
Rossignol, Rev. R., BA	Prof.	Rossignol, Rev. R., BA	Prof.
Poitras, Rev. A., LSc <i>Laval</i>	Prof.	Poitras, Rev. A., LSc <i>Laval</i>	Prof.
Cormier, Rev. J. B., BA LSc	Prof.	LeBlanc, R., MSc <i>Notre Dame</i>	Prof.
Newbold, B., PhD <i>Laval</i>	Prof.	Cormier, Rev. J. B., BA LSc <i>Montr.</i>	Prof.
<b>Civil Engineering and Surveying</b>		<b>Mechanics</b>	
McCrea, D., BSc <i>New Br.</i>	Prof.	Marcotte, N., BSc <i>Laval</i>	Prof.
Marcotte, N., BSc <i>Laval</i>	Prof.		
<b>Commercial Law</b>		<b>Mental Hygiene</b>	
Léger, C. E., QC, BA BCL	Lectr.	Cormier G.	Prof.
<b>Diction</b>		<b>Mine Research</b>	
Boudreau, Miss Léone, BED	Lectr.	Pogani, G.	Prof.
<b>Drafting</b>		<b>Modern Languages</b>	
Blanchette, C., BA BArch <i>Montr.</i>	Lectr.	MacDonald, R.	Lectr.
<b>Economics</b>		<b>Philosophy</b>	
Young, A., LScSoc <i>Laval</i>	Prof.	Daigle, Rev. L.-M., LPh <i>Laval</i>	Prof.
<b>Electricity</b>		Soucy, A., LPh	Prof.
LeBlanc, R. J., MSc	Prof.		
<b>English</b>		<b>Physics</b>	
Cryderman, K., MA <i>Tor.</i>	Prof.	LeBlanc, R. J., MSc	Prof.
Soucy, A., LPh	Prof.		
<b>Financial Mathematics</b>		<b>Psychology</b>	
Lang, C., BScCom	Lectr.	Desjardins, Rev. R. L., BA MEd	Prof.
Bourque, P., MSc <i>Laval</i> . CA	Lectr.		
<b>French</b>		<b>Religion</b>	
Chamard, Rev. M., LèsL <i>Paris</i>	Prof.	Ferguson, Rev. O., LScCom <i>Montr.</i>	Prof.
Labonté, R., MA <i>Montr.</i>	Prof.	Poitras, Rev. A., LSc <i>Laval</i>	Prof.
		Rossignol, Rev. R., BA	Prof.
		Chamard, Rev. M., LèsL <i>Paris</i>	Prof.
<b>Geology</b>		<b>Statistics</b>	
Marcotte, N., BSc <i>Laval</i>	Prof.	Ferguson, Rev. O., LScCom <i>Montr.</i>	Prof.



## AFFILIATED INSTITUTIONS

ASSUMPTION COLLEGE, 96 Ave. Norwood, Moncton, N.B. (tel.: EV 4-4073). Founded 1946. Jr. coll. in arts. Superior—Rev. C. Johnson, BA.

COLLÈGE NOTRE-DAME D'ACADIE, 343 Archibald St., Moncton, N.B. (tel.: EV 4-4121). Founded 1948. Courses in arts for BA, in music for BM and in home econ. for BScEcon. Superior—Rev. Mother Juliette, MA.

MOREAU SEMINARY, Saint Joseph, N.B. (tel.: Memramcook Exch. TU 8-2584). Founded 1948. Courses in arts for BA. Superior—Rev. P. J. Kingston, BA.

SACRED HEART COLLEGE, Sagardi-Barisal, East

Pakistan. Courses in arts for BA. Founded 1953. Superior—Rev. A. McClure, BA *Montr.*

SAINT THOMAS SEMINARY, Saint Joseph, N.B. (tel.: Memramcook Exch. 8-2511). Founded 1948. Courses in arts for BA. Superior—Rev. L. Gaudet, LèsL *Montr.*

SCHOOL OF HOME ECONOMICS, Saint Joseph, N.B. (tel.: Memramcook Exch. 8-2556). Founded 1948. Courses for cert. in home econ. Superior—Rev. Sister Marie-de-Lourdes.

SEMINARY OF OUR LADY OF PERPETUAL HELP, 476 Elmwood Drive, Moncton, N.B. (tel.: EV 4-9327). Founded 1956. Junior coll. courses leading to BA. Superior—Rev. C. LeBel.

## GENERAL INFORMATION

Founded in 1864, the instn. was incorporated under the name of 'The Coll. of Saint Joseph', with the power to confer degrees, by an act of the New Brunswick legislature in 1868. In 1898, the original charter was amended, the name being changed to 'The Univ. of Saint Joseph's Coll.'. In 1906, Oxford Univ. admitted St. Joseph's Coll. to the privileges of the statute of colonial univs. In 1928 the legal title was changed to 'Saint Joseph's Univ.'. The univ. is conducted by the fathers of Holy Cross. It is a bilingual instn. (French- and English-speaking).

CONSTITUTION. Since the opening of the new bldg. in Moncton in 1953 for scis., comm., civil engin. and educn., St. Joseph's Univ. has been governed by a single corporation with its main centre of admin. at St. Joseph. There is a general cttee. on studies, comprising the pres. and the dean of studies of each instn. as members *ex officio*. These officers outline the general curriculum of studies for the univ. For the rest, each instn. has its own budget and is administered as if it were a separate coll.; each has a bd. of governors, comprising the pres., the vice-pres., the dean of studies, the sec. and two local councillors. On admin. problems the powers of members of the council are limited to consultation; they have full power on financial problems. The local cttee. on studies is composed of the pres. of the instn., the dean of studies and the deans of the depts. The deans of the depts. are responsible to the dean of studies, who is responsible to the pres. of the instn.

INCOME. Govt. grants: provincial govt., \$20,000; federal govt., \$30,000.

LIBRARY. 50,000 vols. MUSEUM. Natural hist. and Acadian hist. The library, museum and archives, the first instn. of its kind organized for the benefit of the Acadian population, has specialized in, and contains valuable collections on, the hist. of Acadia.

LABORATORIES. Biol., chem., phys.

DEPARTMENTS. High sch. level: academic, comm., agricultural and home econ. High schs. affiliated to the univ. offer courses leading to jr. matric., on completion of which students may be admitted to the coll. course. Coll. level: arts, comm., educn., engin., home econ., music, sci.

ADMISSION. See Appendix II.

FIRST DEGREES. 4 yrs. from jr. matric.—BA, BSc, BScCom, BScFam, BM (music), BSc in Home Econ.

HIGHER DEGREES. Postgrad. course of 1 yr., or equivalent—BEd, MA. 1 yr. from BEd—MEd.

DIPLOMA in engin. (3 yrs.); admits to 4th yr. of 5-yr. course at Univ. of New Brunswick.

FEES. For tuition only: arts, \$160; others, \$175. For bd., residence and tuition: \$450 plus. Degrees: \$5 to \$20.

RESIDENCE. Accom. for 500 male students.

PUBLICATIONS. *Calendar* (June). Students: *Liaisons* (monthly).

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	391	1
Women . . .	4	—
Total	395	

Arts (St. Joseph): 132. Arts, comm., scis., educn., civil engin. (Moncton): 263.

Distribution by Faculties. *Arts*, 206; *comm.*, 91; *educn.*, 5; *engin.*, 70; *sci.*, 23. Total: 395.

In addition, there were 371 students in the high sch. course (agric., 26; classical, 245; comm., 100).

# SAINT MARY'S UNIVERSITY\*

Founded 1841; previously established as St. Mary's College, 1802

*Postal Address* : Halifax, Nova Scotia, Canada

*Cables and Telegrams* : St. Mary's University, Halifax, Nova Scotia

*Telephone* : Halifax 2-6421

CHANCELLOR—Most Rev. J. G. BERRY, DD MSc C.U.A., Archbishop of Halifax

PRESIDENT—Very Rev. C. J. FISCHER, SThL *Greg.*

VICE-RECTOR—Rev. E. M. Brown, PhD *Greg.*

DEAN OF STUDIES—Rev. W. A. STEWART, SThL *Greg.*; DEAN OF EDUCATION—Rev. D. FOGARTY, SThL *Greg.*, MA PhD *Col.*; DEAN OF MEN—Rev. C. N. RUSHMAN, BA *Tor.*

ACTING REGISTRAR—Mrs. SARA JUDD

TURSAIR—D. J. MARKLEY

LIBRARIAN—Rev. A. COTTER, SThL *Greg.*

## TEACHING STAFF

[† = Part-Time]

### Accounting

Beazley, H. G., BComm

Dixon, C., BComm

Hill, F. J., BComm

Prof.

†Instr.

†Instr.

### Anthropology

Stapleton, Mrs. Sylvia, MA *Syd.*

†Instr.

### Archæology

Loewenstein, J., PhD *Vienna*, FRAI

Prof.

### Art

Czako, Rev. A., PhD *Bud.*

Zarand, J.

Assoc. Prof.

Lectr.

### Astronomy

Burke-Gaffney, Rev. M. W., BA *Montr.*,  
BE *N.U.I.*, PhD *Georgetown*,  
DEng *N.S.T.C.*

Prof.

### Biology

Soltan, H. C., BA PhD *Tor.*

Asst. Prof.

### Business Administration

Hanrahan, R., MBA *Harv.*, BComm

Lectr.

### Chemistry

Murphy, Rev. J. W., MA PhD *Tor.*

Sabean, A. T., BA MSc *McG.*

Bridgeo, W., PhD *Ott.*

Assoc. Prof.

Assoc. Prof.

†Instr.

### Commercial Law

Downie, R. J., BA LLB *Dal.*, LL.M. *Harv.*

†Instr.

### Economics

Vorstermans, J. J., Drs *Tilburg*

Asst. Prof.

George, R. E., BSc *Lond.*, MA *Brist.*

Lectr.

### Education

Fogarty, Rev. D., SThL *Greg.*, MA  
PhD *Col.*

Prof.

Labelle, Rev. H. J., MA *St. Louis*

Prof.

Fogarty, D., BA BEd

†Instr.

Harrington, M., BA BEd

†Instr.

Keating, M., MA LLB *Dal.*, LLD

†Instr.

### Engineering

Ryan, J. L., BE *N.S.T.C.*, BSc

Prof.

Sheehan, B. S., BE *N.S.T.C.* (on leave) Lectr.

Warner, D., BE *N.S.T.C.*, MSc *Purdue* Lectr.

Bowes, H. G., BE *N.S.T.C.*

†Instr.

Collins, G.

†Instr.

Crooker, W. S., DipEng

†Instr.

Merritt, J. H., BE *N.S.T.C.*, MSc *Birm.*

†Instr.

### English

Flynn, T. E., MA *Dal.*

Lectr.

Hallett, G., MA *Dal.*

Lectr.

Yeoman, A. R., MA BD *K.C.N.S.*

†Instr.

### French

Loewenstein, J., PhD *Vienna*, FRAI

Prof.

Devine, Rev. F. J., MA *McG.*

Assoc. Prof.

Rountree, S. V., MA *Dal.*, BLS *McG.*

†Instr.

\* Member of the Association of Universities of the British Commonwealth

**Geology**Simpson, D. H., MSc PhD *McG.* Asst. Prof.**German**

Pechstein, Mrs. Inge †Instr.

**Gregorian Chant**Mills, Rev. J. E., BMus *Montr.* †Instr.**History**MacCormack, J. R., MA *Dal.* Asst. Prof.O'Keefe, Rev. C. B., MA PhD *Tor.*  
(on leave) Asst. Prof.**Latin**Gallagher, Rev. G., SThL *St. Louis*,  
MS *Fordham* Prof.O'Donnell, Rev. M. J., SThL *Greg.*,  
BA *Montr.* Assoc. Prof.Topp, Rev. G., SThL *Greg.*, BA *Montr.*,  
PhL DipPhil *Louvain* Asst. Prof.**Mathematics**Burke-Gaffney, Rev. M. W., BA *Montr.*,  
BE *N.U.I.*, PhD *Georgetown*, DEng  
N.S.T.C. Prof.Brisebois, M., BA MSc *Montr.* Lectr.Sinha, S. K., MA *Patna*, MSc *Lond.* Lectr.**Philosophy**Labelle, Rev. H. J., MA *St. Louis* Prof.McGarry, Rev. J. J., BA *Laval*, PhD *Greg.*  
Assoc. Prof.Stewart, Rev. W. A., SThL *Greg.*, FLA  
Assoc. Prof.Topp, Rev. G., SThL *Greg.*, BA *Montr.*,  
PhL DipPhil *Louvain* Asst. Prof.**Physics**Simpson, D. H., MSc PhD *McG.* Asst. Prof.Merdsoy, U. S., MSc *Roch.* Lectr.**Political Science**Dalton, W., MA *Tor.*, PhD *Ott.* Assoc. Prof.Habib, H. P., MA *Fordham* (on leave) Asst. Prof.**Sociology**Rourke, Rev. D., MA *Seattle* Assoc. Prof.**Theology**Gallagher, Rev. G., SThL *St. Louis*,  
MS *Fordham* Prof.Colliard, Rev. A., BA *Montr.*, SThL *Greg.*  
Asst. Prof.**ADMINISTRATIVE AND OTHER STAFF**

Dir. of Adult Studies : Rev. M. J. Belair,  
SThL *Greg.* Principal of High School : Rev.  
J. E. Power, BA *Montr.* Dir. of Athletics : R.  
Hayes. Student Counsellor : Rev. G. Gallagher.

Asst. Librarian : S. V. Rountree, MA *Dal.*, BLS  
*McG.* Asst. to the Pres. : J. Stirling Dorrance.  
Univ. Reserve Trg. Officer : Capt. G. D.  
MacCrae.

**AFFILIATED INSTITUTIONS**

IGNATIUS COLLEGE, Guelph, Ont. Founded  
1913 ; enrolment limited to members of Society  
of Jesus. Jr. coll. in fac. of arts. Courses for  
first 2 yrs. of BA of St. Mary's. Principal—Rev.  
J. Monaghan.

REGIS COLLEGE, 403 Wellington St. W., Tor-  
onto, Ont. Founded 1929 ; enrolment limited to  
members of Society of Jesus. Courses for BA  
of St. Mary's (continuation of those at Ignatius  
Coll.), STB. Principal—Rev. E. F. Sheridan.

**ASSOCIATED INSTITUTIONS**

MARITIME SCHOOL OF SOCIAL WORK (tel. :  
Halifax 3-6907). Dir.—L. T. Hancock, MA *Chic.*  
& *K.C.N.S.*, BSW *McG.* Approved grads. of  
St. Mary's and other recognized univs. who have  
completed 2 yrs.' professl. trg. at the sch. are  
granted the degree of Master of Social Work  
(MSW) by St. Mary's.

HALIFAX SCHOOL OF JOURNALISM, St. Mary's

Univ., Halifax, N.S. (tel. : 2-6421). Dean—  
R. J. McCleave, LLB. The sch. is a jt. under-  
taking of St. Mary's Univ., the Univ. of King's  
Coll., Mt. St. Vincent Coll., the Halifax *Chronicle-  
Herald* and radio station CJCH. The sch., which  
has its own bd. of governors with 2 reps. from  
each instn., grants a dipl. in journalism 3 yrs. after  
jr. matric.

**GENERAL INFORMATION**

In 1802, Rev. Edmund Burke founded Saint  
Mary's Coll. An act of the legislature of Nova  
Scotia passed in 1841 and confirmed on several

occasions 'conferred full univ. powers. All  
through its history, Saint Mary's has been under  
the direction of groups of Roman Catholic clergy.

The secular clergy, the brothers of the Christian Schools and the Christian brothers of Ireland have all had charge of the admin. In June 1940, on the invitation of Most Rev. J. T. McNally, archbishop of Halifax, the Jesuit fathers of Upper Canada assumed direction of the coll. A new property was purchased in 1943, and on it was raised the new structure which was opened in Sept. 1951. In 1952 the name was officially changed to Saint Mary's Univ.

**INCOME (1958-59).** Total: 552,005 (fees, 26 per cent.; federal grant, 13 per cent.; donations, 5 per cent.; other sources, 56 per cent.).

**FACULTIES AND DEANS.** *Arts & sci.*, Rev. W. A. Stewart; *comm.*, Prof. H. G. Beazley (acctg.); *educn.*, Rev. D. J. Fogarty; *engin.*, Prof. J. L. Ryan.

**LIBRARY.** 35,000 vols.

**LABORATORIES.** Biol., chem., electronics, engin., geol., phys.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** 4 yrs. from jr. matric.—BA, BSc, BComm. BA hons. may be taken in econ., French, hist., Latin, philos.; BSc hons. in chem.; BComm can also be awarded with hons.

**HIGHER DEGREES.** STB (bachelor of sacred theol.), 3 yrs. after BA; MA in theol., 4 yrs. after BA; MSW, MA in educn., 2 yrs. after BA; BEd, 1 yr. after BA. Courses of instructn. for STB are given at Jesuit seminary (Regis Coll.) in Toronto, open to members of Society of Jesus only; courses of instructn. for MSW at Maritime Sch. of Social Work, Halifax (see 'Assoc. Instns.', above), open to grads. of any univ.

Also LL.D, LittD, honorary degrees only.

**DIPLOMA COURSES.** Engin., journalism, 3 yrs. from jr. matric. The dipl. in engin. enables students to complete a degree course in engin. at Nova Scotia Tech. Coll., and certain other univs., after a further 2 yrs.

**FEES.** Tuition: \$55 per prescribed course; elective courses, \$75 (lab. fees addtnl.). General fee: \$40, incl. registration fee, library, athletics, health service and students' council.

**RESIDENCE.** Accom. available for 230 students. Room and board, \$550 a yr.

**EVENING DIVISION.** Evg. courses provided for men and women who wish to obtain BA, BSc or BComm. Degree work can be completed by evg. courses. In addn., 5 series of 10 lectures offered at low cost for interested members of public; no academic credit for these lectures.

**SUMMER SESSION.** A 7-wk. session of the univ. during July and August; courses offered in arts and comm. for univ. credit. No degree can be taken by summer session courses only.

**ENTRANCE SCHOLARSHIPS.** Include 19 Parish scholps., 10 Knights of Columbus scholps. and 15 univ. scholps.

**STUDY LEAVE** is granted to staff members after 5 yrs.' permanent appt.

**ACADEMIC YEAR.** Sept. to May; 2 semesters of 14 wks. each.

**GRADUATES' ASSOCIATIONS.** Grad. soc.: grads. of St. Mary's eligible. Alumni assocn.: all former St. Mary's students eligible.

**STUDENTS' COUNCIL.** Pres. and vice-pres. elected by student body. Athletic assocn.; sodality; debating soc.

**MILITARY TRAINING.** Canadian officers' trg. corps, univ. naval trg. division. Royal Canadian air force summer trg. and subsidization schemes.

**STUDENT HEALTH SERVICE.** Includes phys. exam. and X-ray at registration. Infirmary in residence; campus physician.

**PUBLICATIONS.** *Calendar* (March); *Extension Dept. Calendar*; *Sch. of Educn. Programme*; *Adult Studies Programme*. Students' publicns.: *Journal* (fortnightly).

## THE YEAR 1959

**NEW DEPARTMENT.** Bus. admin.

**RESIGNATIONS.** T. M. Rice (French), apptd. to Tor.; R. Caterina (acctg.), apptd. to Manit.

**HONORARY DEGREES.** LL.D—H.E. Richard Cardinal Cushing, archbishop of Boston; H.E. C. Malik, pres. of 13th general assembly of United Nations.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	486	148
Women . . .	13	128
Total	499	276

Distribution by Faculties. *Arts*, 292; *comm.*, 146; *educn.*, 88; *engin.*, 108; *sci.*, 72; *soc. work*, 5; *theol.*, 64. Total: 775.

*Included in the figures above are:—*

Postgraduate students, 157.

New admissions, 260.

Students from other countries, 85. (Countries from which largest numbers came: U.S.A., 54; Hong Kong, 7).

**DEGREES AWARDED (1958-59).** *Arts*: BA, 29. *Comm.*: BComm, 13. *Educn.*: BEd, 18. *Sci.*: BSc, 12. *Theol.*: STB, 6; MA, 5.

**DIPLOMAS AWARDED (1958-59).** *Educn.*: sr. dipl., 2; jr. dipl., 2. *Engin.*: 13. *Journalism*, 3.

# UNIVERSITY OF SASKATCHEWAN\*

Founded 1907

Postal Address : Saskatoon, Saskatchewan, Canada

Cables and Telegrams : University of Saskatchewan, Canada

Telephone : Saskatoon CH27671

VISITOR—The Hon. F. L. BASTEDO, QC, LLB *Tor.*

CHANCELLOR—F. H. AULD, MBE, Hon. LL.D

CHAIRMAN OF GOVERNORS—H. C. REES, QC, BA LLB

PRESIDENT AND VICE-CHANCELLOR—J. W. T. SPINKS, MBE, PhD DSc *Lond.*, Hon. LL.D *Can.*, FRSCan

ASSISTANT TO THE PRESIDENT—A. C. McEOWN, BSc

DEANS—AGRICULTURE—V. E. GRAHAM, MS PhD *Wis.*, BSA (Agric. Bacteriol.); ARTS AND SCIENCE—J. F. LEDDY, BLitt DPhil *Oxon.*, Hon. DLitt *St.F.X. & Ott.*, Hon. DèsL *Laval*, Hon. LL.D *Assum.*, Hon. DCL *St.M.*, MA (Classics); COMMERCE—T. H. McLEOD, BA *Manit.*, AM *Indiana*, MPA PhD *Harv.* (Acctg. & Comm.); EDUCATION—J. B. KIRKPATRICK, EdD *Col.*, BA *MED.*; ENGINEERING—A. PORTER, MSc PhD *Manc.* (General Engin.); GRADUATE STUDIES—B. W. CURRIE, PhD *McG.*, MSc, FRSCan; HOME ECONOMICS—HOPE H. HUNT, BA *Tor.*, MSc *Col.*, PhD *Minn.*; LAW—F. C. CRONKITE, QC, AM LLB *Harv.*, Hon. LL.D *Br.Col.*, Hon. DCL *Dal.*; MEDICINE—J. W. MACLEOD, OBE, BSc MD *McG.*; PHARMACY—W. C. MACAULAY, MS *Purdue*, Hon. DPharm *Montr.*, BSP; REGINA COLLEGE—W. A. RIDDELL, BA BSc *Manit.*, PhD *Stan.*, MSc

REGISTRAR—N. K. CRAM, CID, BA BEd

CONTROLLER—J. A. PRINGLE, ED, BAcc

LIBRARIAN—D. C. APPELT, MA *Alta.*, ABLS *Mich.*

## TEACHING STAFF

[† = Part-Time]

### Accounting and Commerce

McLeod, T. H., BA *Manit.*, AM *Indiana*,  
MPA PhD *Harv.* Prof.  
Goodspeed, Georgia, MBA *Chic.*, BAacc Prof.  
Barber, L. I., MBA *Calif.*, BA BComm

Parker, J. R. E., BCom *Dal.* Asst Prof.  
Walmsley, P. Y., MA *Tor.* Asst Prof.  
McCartney, R. G., BAacc, CA Lectr.  
Botham, D. C., MBA *Mich.*, BComm †Lectr.  
Meilicke, C. A., BComm Instr.  
Muir, R. E., BComm Instr.

**Agriculture**, see below

**Anatomy**, see Medicine

### Art

Snelgrove, G. W., AM *Chic.*, PhD *Lond.* Prof.  
Bornstein, E., BS *Milwaukee State*  
*Teachers'*, MS *Wis.* Assoc. Prof.

**Bacteriology**, see Medicine

### Biochemistry

McArthur, C. S., BA *W.Out.*, MSc  
PhD *Tor.* Prof.  
Kline, Dorothy K., PhD *W.Out.*, MA Assoc. Prof.  
Marko, A. M., MD PhD *Tor.*, BA Asst. Prof.  
Woodford, V. R., BS *Charleston*,  
MSc PhD *McG.* Asst. Prof.

### Biology

Rawson, D. S., PhD *Tor.*, FRSCan Prof.  
Rempel, J. G., PhD *Corn.*, MSc, FRSCan Prof.  
Vanterpool, T. C., MSc *McG.* Prof.  
Saunders, L. G., MSc *McG.*, PhD *Camb.* Prof.  
Arnason, T. J., PhD *Wis.*, MSc Prof.  
Shaw, M., MSc PhD *McG.* Prof.  
Steeves, T. A., PhD *Harv.* Assoc. Prof.  
Cameron, M. L., MSc *Dal.*, PhD *Camb.* Asst. Prof.  
Miller, R. S., BA *Colorado*, DPhil *Oxon.* Asst. Prof.

### Chemistry

McCallum, K. J., PhD *Col.*, MSc, FRSCan Prof.

Member of the Association of Universities of the British Commonwealth

Van Cleave, A. B., PhD *McG. & Camb.*,  
MSc Prof.  
Pepper, J. M., MA *Br.Col.*, PhD *McG.* Prof.  
Eager, R. L., PhD *McG.*, BE MSc Assoc. Prof.  
Bardwell, J. A. E., BA MSc *W.Ont.*,  
PhD *McG. & Minn.*, DPhil *Oxon.*

Assoc. Prof.  
Lee, C. C., DSc *M.I.T.*, BE MSc Assoc. Prof.  
Thompson, K. M., BE MSc Asst. Prof.  
Abramovitch, R. A., BSc *Alexandria & Lond.*,  
PhD *Lond.* Asst. Prof.  
Tinker, E. B., BE MSc Asst. Prof.  
McEwen, K. Lenore, BA MSc *Br.Col.*,  
PhD *Camb.* Asst. Prof.

**Classics**

Leddy, J. F., BLitt DPhil *Oxon.*, Hon. DLitt  
*St.F.X. & Ott.*, Hon. Dèsl. *Laval*,  
Hon. LLD *Assum.*, Hon. DCI. *St.M.*,  
MA Prof.  
Ferguson, R. M., MA *Dub.* Prof.  
Pritchett, C. D., MA *Lond.* Lectr.

**Commerce**, see Accounting and Comm.

**Drama**

Jones, E. M., MA *Alta.* Prof.  
Assoc. Prof.

**Economics**

Butnell, G. E., MA PhD *Tor.*, BA, FRSCan Prof.  
Fowke, V. C., PhD *Wash.*, MA, FRSCan Prof.  
Buckley, K. A. H., MA *Tor.*, PhD *Lond.*, BA Prof.  
Allely, J. S. M., MA *Qu.*, AM *Harv.* Assoc. Prof.  
Safarian, A. E., BA *Tor.*, PhD *Calif.* Assoc. Prof.  
Callaghan, Rev. J. F., MA *Tor.* Asst. Prof.  
Winch, D. M., BSc PhD *Lond.* Sp. Lectr.  
Rea, K. J., PhD *Lond.*, MA Sp. Lectr.

**Education**

Kirkpatrick, J. B., EdD *Col.*, BA MED Prof.  
Toombs, M. P., MA MED Prof.  
Clark, S., BA MED Prof.  
Langley, G. J., PhD *Col.*, BA MED Assoc. Prof.  
Deverell, A. F., BA BEd *Alta.*, EdD *Stan.* Assoc. Prof.  
Paul, J. W., BA *Qu.*, MED *Chic.* Assoc. Prof.  
Cameron, A. A., BA MED Assoc. Prof.  
McNeill, W. D. D., PhD *Ill.*, BEd Assoc. Prof.  
Fleming, B., BA BEd Asst. Prof.  
Knill, W. D., BEd *Alta.*, MA *Montana*,  
EdD *Oregon* Asst. Prof.  
Sutherland, J. K., BSc *Lond.* Asst. Prof.  
Day, S. E., BA *Central Wash. Coll.* Sp. Lectr.  
Buckley, L. P., BA BEd †Lectr.  
McKinnon, F. A., BA MED †Lectr.

**Engineering**, see below

**English**

King, C. A., MA PhD *Tor.*, BA Bateman Prof.  
McCourt, E. A., BA *Alta.*, MA *Oxon.* Prof.

Tracy, C. A., BA *Tor.*, PhD *Yale* Prof.  
O'Donnell, Rev. J. L., MA *W.Ont.* Prof.  
Smith, J. P., PhD *Calif.*, MA Prof.  
Bentley, J. A., MA *Dal.*, PhD *Harv.* Assoc. Prof.  
Cherry, D. R., PhD *Tor.*, MA Assoc. Prof.  
Chambers, R. D., BA *McG.*, MA *Oxon.* Asst. Prof.

**French**

Bujila, Mrs. Bernadine, AM *Col.*,  
PhD *Mich.*, BA BED Prof.  
Cameron, Margaret, MA *McG. & Radcliffe*,  
DUParis Prof.  
Mallon, Rev. J. P., MA *Tor.*, DULaval Prof.  
Ridgway, R. S., BA *Sheff.*, MA *Manit.*,  
DUAix-Marseilles Asst. Prof.  
Black, M., BA *Manit.*, MA *Col.* Sp. Lectr.

**Geography**

Richards, J. H., BSc *Wales*, MA PhD *Tor.* Prof.

**Geology**

Mawdsley, J. B., MBE, BSc *McG.*,  
PhD *Prin.*, FRSCan Prof.  
Edmunds, F. H., MSc *Liv.*, FGS,  
FRSCan Prof.  
Byers, A. R., MSc PhD *McG.*, FRSCan Prof.  
Kupsch, W. O., MSc PhD *Mich.* Assoc. Prof.  
Smith, J. R., MSc *Laval*, PhD *Prin.*, BE Assoc. Prof.  
Caldwell, W. G. E., BSc PhD *Glas.* Asst. Prof.  
Hall, D. H., BSc *Alta.*, MA *Tor.*,  
PhD *Br.Col.* (Geophys.) Asst. Prof.  
Coleman, L. C., MA *Qu.*, PhD *Prin.* Asst. Prof.  
Wardlaw, N. C., BSc *Manc.* Sp. Lectr.

**German (including Norwegian)**

Anstensen, A., MBE, MA PhD *Col.* Prof.  
Gunvaldsen, K. M., MA PhD *Wis.* Assoc. Prof.

**History**

Neatby, Hilda, PhD *Minn.*, Hon. LLD *Tor.*,  
MA, FRSCan Prof.  
Lightbody, C. W., MA *Tor. & Oxon.*,  
PhD *Corn.*, BA Assoc. Prof.  
Murray, Jean E., MA *Tor. & Sask.*, PhD  
*Chic.* Assoc. Prof.  
Graham, W. R., BA *Manit.*, MA PhD *Tor.* Assoc. Prof.  
Finn, Rev. R. W., BA *W.Ont.*, MA *Tor.*,  
LMS *Pontif.Inst.,Tor.* Assoc. Prof.  
McConica, J. K., MA *Oxon.*, BA Asst. Prof.

**Home Economics**

Hunt, Hope H., BA *Tor.*, MSc *Col.*,  
PhD *Minn.* Prof.  
Rowles, Edith C., MSc *Wis.*, EdD *Col.*,  
BHSc Assoc. Prof.  
Harris, Marjorie, BA(HSc) *Tor.* Asst. Prof.  
Guilford, Marjorie, BSc *Manit.*, AM *Col.* Asst. Prof.  
Campbell, F. Elizabeth, BSc *Alta.*,  
MSc *Corn.* Asst. Prof.

**Horticulture**, see Agriculture below**Law**

- Cronkite, F. C., QC, AM LLB *Harv.*,  
Hon. LL.D. *Br.Col.*, Hon. DCL *Dal.* Prof.  
Woods, M. J., MBE, QC, BA LLB Prof.  
Lang, O., BCL *Oxon.*, BA LLB Assoc. Prof.  
Tollefson, E. A., BCL *Oxon.*, BA LLB  
Asst. Prof.  
Dunbar, F. I., BA LLB †Lectr.  
Estey, C. L. B., BA LLB †Lectr.  
Hall, E. M., QC, LLB †Lectr.  
Maguire, P. H., QC, BA LLB †Lectr.  
Schmeiser, D. A., BA LLB †Lectr.  
Tallis, C. F., BA LLB †Lectr.  
Taylor, G. J. D., LLB †Lectr.  
Wedge, J. B., BComm LLB †Lectr.

**Mathematics**

- Ferns, H. H., PhD *Tor.*, BA Prof.  
Miller, C. E., MA PhD *Tor.* Prof.  
Guinand, A. P., BSc *Adel.*, DPhil *Oxon.* Prof.  
Blum, R., PhD *Bucharest* Assoc. Prof.  
Butler, R., MSc PhD *Manc.*  
Visiting Assoc. Prof.  
McEown, A. C., BSc Asst. Prof.  
Shklov, N., BA *Manit.*, MA *Tor.* Asst. Prof.  
Thomas, G. H. M., BSc *Manit.*, MS  
PhD *Wis.* Asst. Prof.  
Weaver, J. T., BSc *Brist.*, MSc PhD Asst. Prof.  
Kaller, C. E., BEd MA Asst. Prof.

**Medicine**, see below**Music**

- Adaskin, M. Prof.  
Reisman, A., MMus *Roch.* Asst. Prof.

**Nursing**

- Keeler, Hazel B., AM *Col.*, BA  
Prof., Dir. of Nursing Educn.  
Kernen, Hester J., BS AM *Col.* Assoc. Prof.  
Willis, Lucy D., BS AM *Col.* Asst. Prof.  
Hibbert, Dorothy, BS MA *Col.* Asst. Prof.  
Crawford, Myrtle E., MA *Col.*, BSN  
Sessl. Lectr.  
Sellars, Betty I., BSN †Lectr.

**Pathology**, see Medicine, below**Pharmacy**

- MacAulay, W. C., MS *Purdue*,  
Hon. DPharm *Montr.*, BSP Prof.  
Jeffrey, J. G., PhD *Wis.*, BSP MSc Prof.  
Wood, J. A., MS PhD *Wash.*, BSP Assoc. Prof.  
Summers, J. L., MC, MS *Iowa*, BSP Assoc. Prof.  
Duff, J. G., PhD *Flor.*, BSP MSc Asst. Prof.  
Brown, Leona R., MScPhm *Tor.*, BSP Lectr.  
Ready, K. A., BSP †Lectr.

**Philosophy**

- Bateman, J. V., MA *Dub.*, PhD *Edin.* Prof.  
Paton, R., BD *St.And.*, PhD *Edin.*, BA  
Assoc. Prof.

- Finn, Rev. R. W., MA *Tor.*, LMS *Pontif.*  
*Inst., Tor.* Assoc. Prof.  
Kennedy, Rev. L. A., MA PhD *Tor.* Assoc. Prof.

**Physical Education**

- Orban, W. A. R., MS PhD *Ill.* Prof.  
Leicester, J. B., MEd *Minn.*, BA BEd Asst. Prof.  
Nixon, H. R., BPE *Br.Col.*, MS *Indiana*  
Asst. Prof.  
Burgess, D. L., MA *Denver* Lectr.  
Lawson, Patricia, MA *Oregon*, BA BEd Lectr.  
Wearing, G. A., BA *W.Ont.*, MSc *S.Calif.* Lectr.

**Physics****Professors**

- Currie, B. W., PhD *McG.*, MSc, FRSCan  
Haslam, R. N. H., PhD *McG.*, MA, FRSCan  
Katz, L., MSc *Qu.*, PhD *Cal.Tech.*, FRSCan  
Forsyth, P. A., PhD *McG.*, MA

**Associate Professors**

- Hunten, D. M., BA *W.Ont.*, PhD *McG.*  
Jones, A. V., MSc *N.Z.*, PhD *Camb.*

**Assistant Professors**

- Cormack, D. V., MSc *Alta.*, PhD  
Skinner, R. O., BA *Tor.*, MS PhD *Cal.Tech.*  
Shepherd, G. G., PhD *Tor.*, BE MSc

**Special Lecturer**

- Skarsgard, H. M., PhD *McG.*, BE MSc

**Physiology and Pharmacology**

- Jaques, L. B., MA PhD *Tor.*, FRSCan Prof.  
Millar, G. J., BA PhD *Tor.* Prof.  
Sutherland, C. B., BA *Br.Col.*, PhD *Stan.* Assoc. Prof.  
Grindeland, R. E., PhD *Iowa* Asst. Prof.  
Ashwin, J. G., PhD *McG.*, BSP MSc Lectr.

**Political Science**

- Britnell, G. E., MA PhD *Tor.*, BA,  
FRSCan Prof.  
Ward, N. M., BA *McM.*, MA PhD *Tor.* Prof.  
Callaghan, Rev. J. F., MA *Tor.* Asst. Prof.  
Qualter, T. H., BA *N.Z.*, PhD *Lond.* Sp. Lectr.

**Psychology**

- McMurray, G. A., MA *Bishop's*, PhD *McG.* Prof.  
Rennie, R. A., BA BEd Assoc. Prof.  
Kennedy, Rev. L. A., MA PhD *Tor.* Assoc. Prof.  
Mogenson, G. J., MA Asst. Prof.  
Sydiaha, D., MSc *McG.*, BE Sp. Lectr.

**Slavic Studies (including Russian and Ukrainian)**

- Andrusyshen, C. H., MA *Manit.*, PhD *Tor.* Prof.  
Buyniak, V. O., MA *Alta.* Asst. Prof.

**Sociology**

- Du Wors, R. E., AB *Bates*, MA PhD *Harv.* Prof.  
Abramson, E. J., BA *Temple*, MA *Penn.* Prof.  
Montague, Rev. R. M., BA *Tor.*, MA *Assum.*  
Asst. Prof.

**AGRICULTURE****Animal Husbandry**

- Bell, J. M., BSA *Alta.*, MSc *McG.*,  
PhD *Corn.* Prof.  
Howell, W. E., BSA *Tor.*, MS PhD *Minn.*  
Assoc. Prof.  
Williams, C. M., MSc *Br.Col.*, PhD *Oregon*  
Assoc. Prof.  
Owen, B. D., MSc *Alta.* Lectr.

**Bacteriology, Agricultural**

- Graham, V. E., MS PhD *Wis.*, BSA Prof.  
Myhr, A. N., MS PhD *Minn.*, BSA Assoc. Prof.

**Dairy Science**

- Gibson, D. L., MBE, BSA *Manit.*,  
MSc PhD *Minn.* Prof.  
Myhr, A. N., MS PhD *Minn.*, BSA Assoc. Prof.  
Humbert, E. S., PhD *Mich.State*, BSA  
MSc Asst. Prof.

**Farm Management**

- Van Vliet, H., MSc Prof.  
Thair, P. J., PhD *Iowa*, BSA MSc Assoc. Prof.

**Field Husbandry**

- White, W. J., PhD *Minn.*, BSA MSc Prof.  
Associate Professors  
Knott, D. R., BSA *Br.Col.*, MS PhD *Wis.*  
Naylor, J. M., PhD *Wis.*, BSA MSc  
Larter, E. N., MSc *Alta.*, PhD *Wash.*  
Assistant Professor  
Sosulski, F. W., MS *Wash.*, BSA

**Horticulture**

... Prof.

**Mechanics, see Agric. Engin., below****Plant Ecology**

- Coupland, R. T., BSA *Manit.*,  
PhD *Nebraska* Prof.

**Poultry Husbandry**

- Rae, W. J., BSA *Manit.*, MSc *Wis.* Prof.  
O'Neil, J. B., MSA *Br.Col.* Assoc. Prof.

**Soil Science**

- Hutcheon, W. L., PhD *Minn.*, BSA MSc Prof.  
Rennie, D. A., PhD *Wis.*, BSA Assoc. Prof.  
Paul, E. A., MSc *Alta.*, PhD *Minn.* Asst. Prof.  
St. Arnaud, R. O. J., BSA MSc Asst. Prof.

**Veterinary Science**

- Connell, R., DVM *Tor.*, MS *McG.* Prof.  
Millar, J. L., BVS *Tor.* Assoc. Prof.

**Vocational Agriculture, see below****ENGINEERING****Agricultural Engineering**

- Stewart, C. D., MS PhD *Utah*, BE Prof.  
Symes, O. L., BA BE Assoc. Prof.  
Moysey, E. B., MS *Iowa*, BE Asst. Prof.  
Beach, D. H. C., BE Asst. Prof.  
Murray, J. M., MS *Utah*, BE Asst. Prof.  
Lampman, W. P., BE Lectr.  
Strayer, R. C., BE Lectr.

**Chemical Engineering, see Chem.****Civil Engineering**

- Douglas, A. H., BE Prof.  
Forsberg, C. R., MSc Prof.  
Gerard, F. A., MA PhD *Lond.* Assoc. Prof.  
Smith, C. D., BSc *Alta.* Assoc. Prof.  
Lackie, T. H., BSc *Br.Col.*, MAsC *Tor.* Assoc. Prof.  
Riemer, P., BE Asst. Prof.  
Ncis, V. V., BSc *Alta.*, MSc *McG.* Asst. Prof.  
Noble, C. A., MSc *Alta.* Asst. Prof.  
Wigham, J. M., MSc *Alta.* Asst. Prof.  
Tweddell, I. W., BE Lectr.  
Wright, P. M., BE Lectr.  
Leslie, W. G., BSc *Idaho* Lectr.

**Electrical Engineering**

- Moody, N. F., MIEE Prof.  
Michalenko, A., DIC, BSc *Manit.* Assoc. Prof.  
Ludwig, R. E., BSc *Manit.*, MSc *Ill.* Assoc. Prof.  
Maksymiuk, D., BSc *Manit.* Assoc. Prof.  
Ratz, H. C., BASc *Tor.*, SM *M.I.T.* Asst. Prof.  
Cobbold, W. C., BSc *Lond.* Lectr.  
Holmlund, B. A., BE Lectr.  
Fleming, R. J., BE Lectr.  
Wacker, A. G., BSc(EE) *Qu.* Lectr.

**Engineering Physics, see Phys.****General Engineering**

- Porter, A., MSc PhD *Manc.* Prof.

**Geological Engineering, see Geol.****Mechanical Engineering**

- Mantle, J. B., MS *Ill.*, BE Prof.  
Staples, W. R., MS *Ill.*, BE Prof.  
Mann, O., MS *Iowa*, BE Assoc. Prof.  
Green, G. H., MS *Ill.*, BE Assoc. Prof.  
Garber, S., BEng *McG.*, PhD *Sheff.* Assoc. Prof.  
Nikiforuk, P., BSc *Qu.*, PhD *Manc.* Asst. Prof.  
McDonald, T. W., MSc *Qu.* Asst. Prof.  
Brooks, E. E., BE Lectr.  
Whelan, J. M., BE Lectr.

**Petroleum Engineering**

- Nind, T. E. W., MA *Camb.* Asst. Prof.



**MEDICINE****Anæsthesia**

Wyant, G. M., MD <i>Bologna</i> , FFARCS	Prof.
Dobkin, A. B., MD <i>Tor.</i>	Assoc. Prof.
Kilduff, C. J., MB BCh <i>N.U.I.</i>	Asst. Prof.
Upthegrove, W. E., MD <i>W.Ont.</i>	†Asst. Prof.

**Anatomy**

Altschul, A., MUDr <i>Prague</i>	Prof.
Fritsche, W., MD <i>Mainz</i>	Assoc. Prof.
Groenendijk, Margot M., MD DSc <i>Amst.</i>	Asst. Prof.
Fedoroff, S., MA PhD	Asst. Prof.

**Bacteriology**

Dempster, G., BSc MD <i>Edin.</i>	Prof.
Wiley, B. B., MA <i>Kansas</i> , PhD <i>Roch.</i>	Asst. Prof.
Webb, S. J., MSc PhD <i>Lond.</i>	Asst. Prof.

**Cancer Research**

Begg, R. W., BSc <i>K.C.N.S.</i> , MSc MD CM <i>Dal.</i> , DPhil <i>Oxon.</i>	Prof.
Stich, H. F., PhD <i>Würzburg</i>	Assoc. Prof.
Bather, R., MA <i>Tor.</i> , PhD <i>Edin.</i>	Asst. Prof.
Lotz, F., BA MSc PhD <i>W.Ont.</i>	Asst. Prof.

**Medicine**

Hilliard, I. M., BA MD <i>Tor.</i> , FRCPCan	Prof.
Bailey, A. A., MD <i>Tor.</i> , MS <i>Minn.</i>	Prof.

**Associate Professors**

Horlick, L., MD CM MSc <i>McG.</i> , FRCPCan	
Anderson, J. F. C., MD <i>Tor.</i> , BA Hon. LLD (†)	
Baltzan, D. M., MD CM <i>McG.</i> , FRCPCan (†)	

**Assistant Professors**

Buchan, D. J., MD <i>Manit.</i> , BA, FRCPCan	
Merriman, J. E., MD CM <i>Qu.</i> , FRCPCan	
Baxter, D., MD CM <i>Qu.</i> , MSc <i>McG.</i>	
Baugh, C. W., MD CM <i>Qu.</i>	
Beck, R. N., BCh MD <i>Qu.</i> , MRCPEd	

**Obstetrics and Gynæcology**

Brown, A. B., MD CM <i>Qu.</i> , FRCSCan	Prof.
Clemetson, C. A. B., BM BCh MA <i>Oxon.</i>	Asst. Prof.
MacPherson, R. H., BSc <i>Acad.</i> , MD CM <i>McG.</i> , FRCSCan	†Asst. Prof.

**Ophthalmology**

Murray, R. G., MD <i>Tor.</i> , BA, FRCSCan	Prof.
Drance, S. M., MB ChB <i>Edin.</i> , FRCS	Assoc. Prof.
Genereux, A. G., MD <i>Alta.</i>	†Asst. Prof.

**Pathology**

Moore, D. F., MD BScMed <i>Tor.</i>	Prof.
Adams, J. W., MD <i>Tor.</i>	Assoc. Prof.
Newell, J. E., MSc MD <i>Manit.</i>	Assoc. Prof.

**Pediatrics**

Gerrard, J. W., BA DM <i>Oxon.</i> , MRCP	Prof.
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Holman, G. H., BSc(Med) MD <i>Manit.</i>	Asst. Prof.
Buckwold, A. E., MD <i>Tor.</i>	†Asst. Prof.
Kinnear, W. S., MD <i>Tor.</i> , BSc	†Asst. Prof.
Goluboff, N., MD <i>Manit.</i>	†Asst. Prof.

**Physiology and Pharmacology, see above****Psychiatry**

McKerracher, D. G., MD <i>Tor.</i>	Prof.
Coburn, F. E., BA MD <i>Tor.</i>	Prof.
Hoffer, A., PhD <i>Minn.</i> , MD <i>Tor.</i> , BSA MSc	Asst. Prof.
McDonald, I. M., MD <i>Manit.</i>	Asst. Prof.

**Radiology, Diagnostic**

Spencer, E. W., MD <i>Manit.</i>	Prof.
Traub, S. P., MD <i>Tor.</i>	Assoc. Prof.
Smart, M. J., MB BS <i>Lond.</i>	Asst. Prof.
MacDonnell, A. B., MD CM <i>Qu.</i>	†Asst. Prof.

**Radiology, Therapeutic**

Watson, T. A., MB ChB <i>N.Z.</i> , DMR <i>Lond.</i>	Prof.
Burkell, C. C., MD <i>Tor.</i> , BSc	Asst. Prof.
Cormack, D. V., BSc MSc <i>Alta.</i> , PhD	†Lectr.
Fedoruk, Sylvia, MA	Lectr.

**Rehabilitation Medicine**

Hunt, T. E., MD <i>Tor.</i> , FRCPCan	Prof
Cameron, M. G. P., MD <i>Tor.</i> , FRCPCan	Asst. Prof.

**Social and Preventive Medicine**

Robertson, A., MB ChB <i>Edin.</i> , DPH <i>Lond.</i>	Prof
Swanson, A. L., BA <i>Br.Col.</i> , MD CM <i>McG.</i> , MHA <i>Northwestern</i>	†Asst. Prof.
Badgley, R. F., MA <i>McG. &amp; Yale</i> , PhD <i>Yale</i>	Asst. Prof.
Steele, R., DPH <i>Edin.</i>	Asst. Prof.
Dantow, M., BSc <i>N.Y.</i> , MB ChB <i>Glas.</i> , DPH <i>Tor.</i>	Asst. Prof.

**Surgery**

Nanson, E. M., MB ChB <i>N.Z.</i> , FRCS	Prof.
Feindel, W., BA <i>Acad.</i> , MSc <i>Dal.</i> , MD CM <i>McG.</i> , DPhil <i>Oxon.</i>	Prof.
Jackson, B. A., MD <i>Tor.</i> , BSc, FRCSEd, FRCSCan	†Assoc. Prof.
Leddy, J. E., MD CM <i>McG.</i> , BA, FRCSEd, FRCSCan	†Assoc. Prof.
Stratford, J. G., MSc MD CM <i>McG.</i> , FRCSCan	Assoc. Prof.
Robinson, C. N. L., MD <i>Qu.</i> , FRCSCan	Asst. Prof.
Campbell, J. M., MD <i>Manit.</i> , BA, FACS	†Asst. Prof.
Cameron, J. A. P., MBE, MB ChB <i>Edin.</i> , MCh <i>Liv.</i> , FRCS	†Asst. Prof.
Hazen, G. M. T., MD <i>Tor.</i>	†Asst. Prof.
Stark, E. J., MD <i>Tor.</i>	†Asst. Prof.
Weder, C. H., MD <i>Alta.</i> , FRCSCan	†Asst. Prof.

Kunkel, M. G., MD *Tor.*, BA, FRCSCan  
Asst. Prof.  
Paine, K. W. E., MB BS *Lond.*, FRCS †Lectr.

Pattillo, Margaret, BSc *Acad.*, MSc *Mich.*  
Assoc. Prof., Dir. of Women's Work  
Wirick, A., BA *Br.Col.*  
Supervisor, Adult Educn. Services

### EXTENSION

Ramsay, R., MS *Minn.*, BSA Prof., Dir.  
Paul, L. C., PhD *Iowa*, MSc Prof.  
Robinson, D. R., BSA Assoc. Prof.

### VOCATIONAL AGRICULTURE

Stillborn, A. A., BA BSA BEd  
Assoc. Prof., Dir.

## ADMINISTRATIVE AND OTHER STAFF

Supt. of Bldgs. : J. A. Wedgwood, BE. Dir. of  
Correspondence Courses : D. D. Cameron, MA  
PhD. Alumni Sec. : F. Lovell, BComm. Dir.,

Centre for Community Studies : W. B. Baker,  
BSA.

## CONSTITUENT COLLEGES

REGINA COLLEGE, Regina, Saskatchewan (tel. :  
Regina LA27348). W. A. Riddell, BA BSc *Manit.*,  
PhD *Stan.*, MSc, Dean ; H. Leyton-Brown,  
DFC, Dir. of Conservatory ; K. C. Lochhead,  
Dir. of Art.

Academic Dept. : ART—A. F. McKay, Lectr.  
BIOCHEM.—R. M. Agnew, MSc *Dal.*, PhD *Camb.*,  
†Lectr. BIOL.—G. F. Ledingham, PhD *Wis.*,  
MSc, Assoc. Prof. CHEM.—The Dean ; A. M.  
Kristjanson, PhD *McG.*, MA, Assoc. Prof. ;  
O. G. Holmes, PhD *Col.*, MA, Asst. Prof.  
CLASSICS—S. E. Stewart, MA *Dal.*, Asst. Prof.  
ECON. & POL. SCI.—F. W. Anderson, MA, Asst.  
Prof. ; D. Climenhaga, MA, Lectr. ENGIN.—  
A. A. McKinnon, BE, Lectr. ENGL.—Lucy H.  
Murray, MA *Tor.*, PhD *Chic.*, BEd, Assoc. Prof. ;  
L. G. Crossman, PhD *Wash.*, MA BEd, Assoc.  
Prof. FRENCH—Margaret Belcher, MA *Tor.*, BA,  
Assoc. Prof. HIST.—L. H. Thomas, PhD *Minn.*,

MA, Assoc. Prof. MATHS.—W. C. Blight, BSc  
*Manit.*, Asst. Prof. ; K. G. Toews, MSc BEd,  
Asst. Prof. ; H. Mitchell, BA *Manit.*, MA *Tor.*,  
PhD *Lond.* PHYS.—L. H. Greenberg, MSc *Alta.*,  
PhD, Assoc. Prof.

ST. THOMAS MORE COLLEGE, Saskatoon, Sas-  
katchewan, Canada (tel. : Saskatoon CH46074).  
Principal and Prof. of ENGL.—Rev. J. L.  
O'Donnell, MA *W.Ont.* ; Rev. G. A. Pilecki,  
MA *Tor.*, Asst. Prof. ECON. & POL. SCI.—Rev.  
J. F. Callaghan, MA *Tor.*, Asst. Prof. FRENCH—  
Rev. J. P. Mallon, MA *Tor.*, DULaval, Prof.  
HIST. & PSYCHOL.—Rev. R. W. Finn, MA LMS  
*Tor.*, Assoc. Prof. PHILOS.—Rev. L. A. Kennedy,  
MA PhD *Tor.*, Assoc. Prof. ; Rev. R. M.  
Montague, BA *Tor.*, MA *Assum.*, Asst. Prof.  
Adviser to Women—Mrs. Bernadine Bujila, MA  
*Col.*, PhD *Mich.*, BA BEd.

## AFFILIATED COLLEGES

IMMANUEL COLLEGE, Saskatoon (tel. : Saska-  
toon CH23066), establ. 1879 for training Angli-  
can clergy. Courses for testamur, LicTh, BD,  
which are conferred by the coll. Principal—Rev.  
F. H. W. Crabb, BD.

ST. ANDREW'S COLLEGE, Saskatoon (tel. :  
Saskatoon CH23025), establ. 1912, for training  
for the ministry of the United Church of Canada.  
Authorized to confer degrees in div. (BD and  
DD). Principal—Rev. R. F. Schnell, MA PhD.

ST. CHAD'S COLLEGE, Regina (tel. : Regina  
LA 23187), establ. 1907 for training students  
in div. Course for testamur, LicTh, BD, DD,

which are conferred by the coll. Warden—Rev.  
N. D. Pilcher, MA LST.

LUTHER THEOLOGICAL SEMINARY, Saskatoon  
(tel. : Saskatoon WI97818), establ. 1914, for  
training of men for the gospel ministry. A 3-yr.  
course in theol. leads to the candidate in theology  
dipl., and with addnl. requirements, to the degree  
conferred by the seminary. President—Rev.  
G. D. Evenson, BA MTh DD.

JUNIOR COLLEGES—Campion Coll., Regina ;  
St. Peter's Coll., Muenster ; Luther Coll.,  
Regina. These colls. provide courses for first yr.  
of BA.

## GENERAL INFORMATION

The act establishing the univ. was passed by the  
legislative assembly of the province in 1907. The  
1st classes in arts & sci. began in 1909, and the  
1st bldg. on the campus was opened for admission

of students in 1912. The other colls. and schs.  
were establ. as follows : agric. 1912, engin. 1912,  
law 1913, pharm. 1914, comm. (acctg.) 1917, med.  
1926, educn. 1927, home econ. 1928, nursing

1938, grad. studies 1946, phys. educn. 1958. Some of these began work as schs. under the administration of other facs., but all have since become colls. with the exception of nursing, which remains a sch. under the jurisdiction of the coll. of med. and phys. educn. under the coll. of arts and sci. St. Thomas More Coll., establ. by the Fathers of St. Basil in 1936, gives classes in most arts subjs. on the same footing as the coll. of arts and sci. In 1934 Regina Coll. was taken over by the univ. and continued as a jr. coll. with a conservatory of music and a sch. of art.

**CONSTITUTION.** Convocation has power to consider all matters affecting the interests and well-being of the univ. and to make representations thereon to the senate. The senate grants degrees, authorizes establ. of scholps., etc., colls., depts., chairs of courses of instructn. within the univ., and considers and determines all courses of study. The bd. of governors is vested with the management, admin. and control of the property, revenues, business and affairs of the univ. It has the duty and power to erect and maintain bldgs., to expend money on their maintenance and equipment, to provide for the establ. and maintenance of facs., depts., chairs, exhibitions, scholps., etc., determined by the senate, and appoints univ. staff. The univ. council conducts exams., and considers for report to senate courses of studies and other educnl. matters. The facs. of the colls. have charge of all matters of scholarship within each coll. Advisory councils for the colls. of agric., educn. and med. consider and report to the senate and bd. of governors on general regns. and courses of study. The chancellor is elected by members of convocation and holds office for 3 yrs. He presides over convocation, confers degrees and is chairman of the senate and a member of the bd. of governors. The pres., who is also the vice-chancellor, is apptd. by the bd. of governors. He has general supervision over and direction of the academic work of the univ., the teaching staff and the student body. Deans of colls. have general supervision over the direction of the work, of the teaching and trg. of the students in all depts. of their colls. Hds. of depts. have general supervision and direction of the work of their depts.

**INCOME (1958-59).** Total income, excl. ancillary enterprises, \$6,555,847 (fecs, 20.8 per cent.; federal govt., 17.6 per cent.; provincial govt., 38.1 per cent.; res. grants, 17.1 per cent.; misc., 6.4 per cent.).

**FACULTIES AND SCHOOLS.** Agric., arts & sci., comm., educn., engin., grad. studies, home econ., law, med., nursing, pharm., phys. educn. *See also p. 296.*

**UNIVERSITY PRECINCT.** The univ. is situated on the S. Saskatchewan River at the edge of the city of Saskatoon. Its site comprises 2400 acres of which 300 acres have been set apart for the campus and the rest are used for the univ. farm and experimental plots. In the city of Regina the

univ. owns the Regina Coll. property incl. 25 acres on Wascana Lake. The univ. also has a 131-acre site on Emma Lake with several bldgs. for an art camp. The land, bldgs. and equipment cost about \$15,081,000. The maintenance of the univ. is partly provided for by assignments of revenue and legislative grants.

**LIBRARIES.** 185,100 vols. Murray Memorial Libr. houses the main libr., Coll. of Law, incl. law libr. and local office of the Saskatchewan archives. Besides law libr., the following branch librs. are maintained: chem., engin., geol., phys., med. Shortt libr. of Canadiana (source material for Canadian hist., esp. the prairie region).

**LABORATORIES.** Biol., chem., geol., phys., agric. (animal diseases, animal husb., dairy, field husb., soils, hort.), engin. (agric., civil, electr., mech., petrol.), med. (anat., bacteriol., biochem., pathol., physiol., cancer & med. res.), home econ., pharm. Univ. farm. Agric. exper. fields. Sp. provision for res. in the various branches of agric. Observatory.

**TEACHING HOSPITAL.** Univ. hosp.

**CENTRE FOR COMMUNITY STUDIES.** The chief purpose of the centre is to collaborate with communities in identifying and understanding the conditions which make for soc. and econ. progress through self-help. The work of the centre is organized under a 3-phase programme: soc. res.; leadership trg.; community consultation.

**INSTITUTE FOR NORTHERN STUDIES.** Has as its object the acquisition of new knowledge regarding the Canadian north and the academic trg. of personnel in fields of study having a bearing on the north.

**INSTITUTE OF UPPER ATMOSPHERIC PHYSICS.** Works in co-operation with dept. of phys. of the univ.

**CANCER RESEARCH UNIT** of the Natnl. Cancer Inst.

**ADMISSION.** *See Appendix II.*

**FIRST DEGREES.** BA (in arts and in sci. subjs.), 3 yrs., pass (4th yr. for hon. in biochem., biol., chem., econ., Engl., French, geol., German, Greek, hist., histol., Latin, maths., philos., phys., physiol., psychol.); BSA (agric.), BComm, BEd, BE (engin.), BSHÉc (home econ.), BSP (pharm.), BA(PE) (phys. educn.), 4 yrs.; LLB, 3 yrs. after 2 yrs. in arts & sci.; BSN (nursing), 5 yrs. incl. 2 yrs. in hosp.; BSc(Med), 5 yrs.; MD, 4 yrs. after 2 yrs. in arts & sci. The univ. has the sole right to confer degrees (other than degrees in theol.) in the province.

**HIGHER DEGREES.** MA, 1 yr. min. from hon. BA; can be taken in all subjs. in which BA hon. is offered. MSc, 1 yr. min. from 4 yr. sci. degree; can be taken in agric. (incl. agric. mech., animal husb., dairy sci., farm mgmt., field husb., plaft ecol., poultry, soil sci.), biol., chem., geol., phys., engin., med. scis., pharmacy. MEd, 1 yr. min. from BEd. PhD, 3 yrs. min. from BA

(hons.) or equivalent; 2 yrs. min. from master's degree; can be taken in anat., animal husb., biochem., biol., chem., econ., engin., field husb., geol., hist., pharmacol., phys., plant ecol., pol. sci. Candidates for PhD must have taken some part of previous educn. at another univ.; exemptions may be made in special cases. Higher degrees are open to grads. of other univs. Min. of 1 yr. residence required for master's, min. of 2 yrs. for PhD degree. Courses of instructn. and supervised res. are required for all higher degrees.

**HONORARY DEGREES.** LLD, DCL, DSc, DLitt.

The univ. does not award EXTERNAL DEGREES, but students may complete 1 yr. of arts by correspondence.

**DIPLOMAS AND CERTIFICATES.** Assoc. in arts (specially designed for jr. colls.), 1 yr. Dipl. in agric. (for young farmers), 2 yr. practical course. Dipl. in nursing, 3 yrs. Postgrad.: dipl. in educn. (for grads. in arts & sci., agric., comm., engin., home econ.), 1 yr.; dipl. for grad. nurses (3 courses offered), 1 yr.; dipl. in bus. admin. (for grads. of coll. other than comm.), 1 yr.; cert. in clin. lab. technique, 1 yr. after BA; dipl. in hosp. lab. technique, 2 yrs.; assoc. in music, min 1 yr.; licentiate in music, min. 2 yrs. Evg. cert. courses in acctg., bus. admin., pub. admin.

**OTHER COURSES.** Short courses in agric. and allied subjs., and for professional groups.

The univ. conducts the LICENCE EXAMS. for the following professions: med. and surg., law, dent., acctg., archit., nursing, vet. sci., optometry, pharmacy, land surveying, dent. technicians, chiropody, chiropractors, embalming, music, naturopathy.

**RESEARCH AND POSTGRADUATE COURSES.** Postgrad. courses available in most depts. Inst. of Upper Atmospheric Phys. (see above). Also located on the campus are the following res. labs. which work in co-op. with the univ.: Prairie Regional Lab. of Natnl. Res. Council, Canada Dept. of Agric. Res. Lab., Saskatchewan Res. Council.

**STUDY LEAVE.** Members of staff are granted study leave for 1 yr. with half salary or a half yr. with full salary after 7 yrs.' service; after 14 yrs., 1 yr. with 80 per cent. salary is granted. Five or six members are allowed study leave each yr.

**FEES.** Tuition p.a. for degree courses: agric., arts & sci., educn., home econ., nursing, \$200-\$225; comm., law, pharm., \$225-\$250; engin., \$275-\$350; med., \$425-\$475; grad. studies, \$175; sch. of agric., \$100.

**ACADEMIC YEAR.** Sept.-May, two terms of 14 to 15 wks. each.

**ADULT EDUCATION.** Correspondence courses in arts (max. of 1 yr. credit); depts. of agric. extension and women's work provide lectures, demonstrations and short courses, incl. courses for rural boys and girls in agric. and home-making. Also

adult educn. courses and lecture courses at the univ. for those not intending to read for a degree. Degree credit courses and cert. non-degree credit courses offered as evg. classes (see above).

**VACATION COURSES.** Summer sch. of 6 wks. held in July-Aug. Classes offered in arts & sci. and educn. mainly for teachers. Intersession of 6 wks. held in May-June. A limited number of classes offered for arts & sci., comm. and educn. students.

**'OPEN' SCHOLARSHIPS FOR GRADUATES.** Saskatchewan govt. res. fellowships for preparation for a career in scientific and indust. res., \$800 or \$1200 each; Consolidated Mining and Smelting fellowship for grads. in sci., engin., or agric., \$1000 plus \$500 for equipment; National Res. Council bursaries of \$800, studentships of \$1200 to qualified grads. in biol., chem., engin., geol., metall., mineral., phys. and maths.; Agric. Res. Foundation scholp., \$1000, 2 yrs.; Canadian Industries Ltd. fellowship in chem., \$2000 plus \$400 for maintenance; Saskatchewan approved Hatchery Assocn. scholp. (poultry), \$600; Univ. of Sask. scholps. (5) in humanities and soc. scis. for students proceeding to MA, \$975; Univ. of Saskatchewan grad. asstships. in agric., biol., chem., educn., engin., geol., maths., med., phys., to students proceeding to MA or PhD, \$1500.

**ALUMNI ASSOCIATION.** Central office at the univ. with branches in most large cities across Canada. Official publicn., *The Green and White*, publ. 4 times a yr., and also other information bulletins which are forwarded to all members.

**STUDENT RESIDENCE.** Hostels for 245 men and 105 women. Men: Qu'Appelle Hall, sch. of agric. Women: Saskatchewan Hall. All residences are situated on the univ. campus. Bd. and room fees, \$62 to \$69 per month.

**JOINT SERVICES UNIVERSITY TRAINING.** Trg. for officers for the armed forces is provided through the univ. naval trg. division, the univ. contingent of the Canadian officers' trg. corps and the Royal Canadian air force (auxiliary) univ. flight.

**STUDENT HEALTH SERVICE.** Univ. clinic on the campus. All students pay a sickness and accident fee for med. services. Out-of-province students pay a hospitalization fee.

**STUDENTS' REPRESENTATIVE COUNCIL.** Elected annually by the students and governs student affairs for univ. functions, social and athletic. Each coll. exec. governs functions for its own coll.

**STUDENTS' UNION.** Memorial union bldg. erected in memory of the students killed in second world war.

**PUBLICATIONS.** Coll. calendars (April); general Calendar (May); Convocation Program (May); President's Annual Report; Agric. Bulletins; Sheaf (student newspaper); Greystone (student

yrbook.); *The Green and White* (alumni assocn., quarterly); books, articles, bulletins and res. papers by members of staff.

Hists. publ. in jubilee yr.: *Saskatchewan—The Making of a University*. A. S. Morton and

Carlyle King. (Univ. of Toronto Press, 1959). *The First Fifty: The University of Saskatchewan*. Carlyle King. (McClelland, 1959).

UNIVERSITY BOOKSTORE.

## THE YEAR 1959

PRINCIPAL BENEFACCTIONS. Scholps., \$80,707; res., \$1,368,835; other purposes, \$201,321.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: animal husbandry bldg.; curling rink; classroom wing W. P. Thompson biol. bldg.; classroom wing arts bldg.

NEW DEPARTMENTS AND CHAIRS. Dept. of geog.; inst. for northern studies.

RETIREMENTS. F. Holroyd (drama); Dr. W. P. Thompson (pres.); Mabel F. Timlin (econ.).

RESIGNATIONS. W. Feindel (surg.); P. Scherck (maths.); A. W. Mewett (law); J. Olszewski (pathol.); Kathleen M. Taggart (home econ.); W. C. McMurray (cancer res.); W. O. J. Moser (maths.); Thelma Howard (extension); E. M. Payne (warden, residence).

DEATH. G. W. Rea (prof. of bacteriol. emer.).

HONORARY DEGREES. *LLD*—P. Danserau, dean of sci., Montr.; H. E. Johns, prof. of phys., Tor.; W. G. Brown, prof. of chem., Chic.; B. Claxton, chairman, Canada Council; J. G. Gardiner, former premier of Saskatchewan, former federal minister of agriculture; R. Glen, dir., Canada Dept. of Agric.; W. A. MacKintosh, principal, Qu.; H. MacLennan, author; W. Penfield, neurosurgeon; F. M. Quance, dean of educn. emer.; R. G. Robertson, dep. minister of northern affairs & natural resources; G. W. Simpson, prof. of hist. emer.; K. W. Taylor, dep. minister of finance. *DCL*—E. C. Leshe, past pres., Canadian Bar Assocn., former member Sask. bd. of governors.

## Statistics

### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time*</i>	<i>External</i>
Men . . .	3637	1940	512
Women . . .	1259	2548	767
Total . . .	4896	4488	1279

Distribution by Faculties. *Agric.*, 313; *arts & sci.*, 1448; *comm.*, 268; *educn.*, 630; *engin.*, 1122; *home econ.*, 63; *law*, 103; *med.*, 127; *nursing*, 366; *pharm.*, 184; *phys. educn.*, 25; *matric.*, 50; *grad. studies*, 197.

Included in the figures above are :—

Postgraduate students, 197.

New admissions, 1677.

Students from other countries, 177. (Countries from which largest numbers came: W. Indies Fed., 37; U.K., 27; India, 25; China, 19; Germany, 16).

DEGREES AWARDED (1958-59). *Agric.*: BSA, 27. *Arts & sci.*: BA, 288. *Comm.*: BComm, 39. *Educn.*: BEd, 119. *Engin.*: BE, 157. *Home econ.*: BSHec, 8. *Law*: LLB, 33. *Med.*: MD, 32. *Nursing*: BSN, 24. *Pharm.*: BSP, 23. *Grad.*: MA, 15; MEd, 1; MSC, 31; PhD, 11.

DIPLOMAS AND CERTIFICATES AWARDED (1958-1959). *Agric.*, 37; *acctg.*, 14; *art*, 3; *bus. admin.*, 19; *pub. admin.*, 18; *educn.*, 21; *nursing* (grad. nurses), 41; *assoc. in arts*, 85; *assoc. in educn.*, 2; *assoc. in music*, 10; *clin. lab. technique*, 2; *hosp. lab. technician*, 10; *licentiate in music*, 2.

Includes summer sch. and evg. classes

# UNIVERSITY OF SHERBROOKE

Founded 1954

Postal Address : Sherbrooke, P.Q., Canada

Cables and Telegrams : University, Sherbrooke, P.Q.

Telephone : LO 9-7431

CHANCELLOR—H.E. Mgr. G. CABANA, Roman Catholic Archbishop of Sherbrook :

RECTOR—Mgr. I. PINARD, BA *Montr.*, BDC *Rome*

VICE-RECTOR—Mgr. M. O'BREADY, BA *Montr.*, Lèsl. *Paris*

SECRETARY-GENERAL AND REGISTRAR—Rev. A. SIROIS, BA Lèsl. *Montr.*, BPéd

TREASURER—Rev. P. GILMORE, MA *Montr.*

LIBRARIAN—G. CHARTRAND, Dipl.Bibl. *Montr.*

DEAN OF FACULTY OF ARTS—Canon R. MALTAIS, BA *Montr.*, LPh *Rome*

## TEACHING STAFF

[† = Part-Time]

### Accounting

Lancôt, J., MScC *Montr.* Prof.  
Provencher, L., BA LScC *Montr.* Prof.  
Brault, R., BScC *Montr.*, MScC *Laval* Prof.

Paulhus, Rev. F., BA *Montr.*, DPéd *Lyons* Prof.  
Roberge, A., BA BPéd Prof.  
O'Bready, Mgr. M., BA *Montr.*,  
Lèsl. *Paris* Prof., Principal  
Côté, Rev. W., BA BPéd *Montr.*,  
DSoc Rome Prof.

### Administration

Comtois, P., BA BSA MScC *Laval* †Prof.  
Loranger, L., MScC *Laval* Prof.

Garneau, L., BA LPéd *Montr.* Prof.  
Huot, P., BA LPéd *Montr.* Prof.  
Proulx, J., BA *Laval*, LPéd *Montr.* Prof.  
Faucher, N., BA BPéd *Montr.* Prof.  
Larivière, R., BA LPéd *Montr.* Prof.  
Milot, A., BA LPéd *Montr.* Prof.  
Poulin, N., MA LPéd Dèsl. *Montr.* Prof.  
Poulin, R., BA *Montr.* Prof.

### Biology

Véronneau, Rev. G., BA LScNat *Montr.* Prof.  
Martin, J., BA BScAgric *Montr.* Prof.

### Chemistry

Adelphe, Br., BA *Montr.*, MSc *St.Louis* Prof.  
Coulombe, J., BSc *Montr.* †Prof.  
Favreau, L., MSc *Montr.* †Prof.  
Saint-Arnaud, R., BA BSc *Montr.* Prof.  
Clèche, J., BA MSc *Montr.* Prof.  
Duchesne, G., BScA *Laval* Prof.

### Engineering

Normandin, M., BScApp *Montr.* Prof.  
Lafrenière, M., BScApp *Montr.* Prof.  
Belleau, J., MScApp *Montr.* Prof.  
Boudreau, L., BScApp *Laval* Prof.  
Brunelle, P., BScApp *Montr.* Prof.  
Champagne, P., BScApp *McG.* Prof.  
Charron, J., BScApp *Laval*, MSc *M.I.T.* Prof.  
Gauthier, M., BA BScApp *Montr.* Prof.  
Joncas, G., BScApp *Montr.* Prof.  
Hamel, C., BA BScA *Montr.* Prof.  
Latendresse, H., BScA *Montr.* Prof.  
Leroux, A., BA *Montr.*, BScA Prof.  
Veilleux, Rev. A., BA BScA *Montr.* Prof.

### Commerce

Cousineau, R., BA LScC *Montr.*,  
MS(Com) *Col.*, PhD *Ott.* Prof., Dir.  
Leroux, A., BA BScApp *Laval*, MA *Col.* Prof.  
Grandpré, R., MSc *Col.* Prof.  
Pichette, C., MScC *Laval*, BA Prof.

### Education

Ruel, P. H., BA LPéd LPs *Laval* Prof., Dir.  
Husar, D., DPh *Bratislava* Prof.  
Maltais, Canon R., BA *Montr.*, LPh *Rome* Prof.

### English

David, Br., BA BPéd *Montr.* Prof.  
Patenaude, Rev. G., MA *Detroit* †Prof.  
Gervais, Rev. P., BA LPéd *Montr.* Prof.

## CANADA

Bernier, R., BA BPéd  
Sutherland, R., MA McG., PhD *Wayne*  
Cappon, C., PhD *Yale*  
Thibault, C., MA *Laval*

Prof. Rousseau, A., QC †Prof.  
Prof. Veilleux, E., QC, BA LLL LPh *Laval*,  
Prof. BCL *Oxon.* †Prof.  
Prof. Leblanc, C., BA *Ott.*, LLL *Montr.* †Prof.  
Langlais, A., BA LLL *Laval* †Prof.  
Lagassé, R., BA *Montr.*, LLL †Prof.  
Boudreau, G., BA *Montr.*, LLL †Prof.  
Dandeneault, Rev. G., BA *Montr.*,  
D'Th *Rome* †Prof.  
Fréchette, J., BA *Ott.*, LLL †Prof.  
Mélanson, J., BA *Montr.*, LLL †Prof.

**French Language and Literature**

Laliberté, R., BA LPéd *Montr.* Prof.  
Huot, P., BA LPéd *Montr.* †Prof.  
Langevin, Rev. G., BA *Montr.*, PhD *Rome* Prof.  
Lavallée, Rev. G., LèsL MA *Montr.* Prof.  
Vachon, Rev. H. P., BA *Montr.* Prof.  
Rioux, P., BPéd MA LèsL *Laval* Prof.  
Couture, Canon M., MA *Montr.* †Prof.

**Greek**

Fournier, Rev. E., MA *Montr.* Prof.  
Grégoire, Rev. G., BA BTh BPéd *Montr.* Prof.  
Pelletier, Rev. C., BA BPéd *Montr.* Prof.

**History**

Roy, J. M., BA *Laval*, DGéo *Grenoble* Prof.  
Gagnon, Rev. P., BA LèsL *Montr.* Prof.  
Mercier, Rev. J., BA BTh LPéd *Montr.* Prof.

**Household Science**

Sainte-Eugénie-de-la-Foi, Sr., MSc *Laval* Prof., Dir.  
Sainte-Thérèse-de-la-Charité, Sr., BA *Montr.* Prof.

**Law**

Leblanc, A., QC, BA LLL *Montr.* †Prof.  
Sylvestre, G., BA LLD *Montr.* †Prof.  
Fortin, C., BA LLL *Laval* †Prof.  
Desmarais, Judge G., BA LLL *Montr.* †Prof.  
Delorme, M., QC, BA LLL *Montr.* †Prof.  
Samson, Judge J. C., BA LLL *Laval* Prof., Dir.  
Barnard, E., BA LLL LèsL *Laval* †Prof.  
Boisvert, Judge E., BA LLL *Montr.* †Prof.  
Charron, C., BA LLL *Montr.* †Prof.  
Cliche, Judge L. P., BA LLL *Laval* †Prof.  
Coderre, C., QC, BA LLL *Montr.* †Prof.  
Côté, L., QC, BA LLL *Montr.* †Prof.  
Denis, A., BA LLL *Laval* †Prof.  
Guy, M., BA LLL *Montr.* †Prof.  
Lagassé, J., BA LLB *Montr.* †Prof.  
Mitchell, Judge W., BA BCL McG. †Prof.  
Panneton, J., BA LLB *Montr.* †Prof.  
Peloquin, J. L., BA LLL LSS *Montr.* †Prof.  
Rivard, A., BA LLL *Laval* †Prof.  
Rouillard, J., BA LLL *Montr.* †Prof.

**Mathematics**

Boucher, C., MA *Montr.* Prof.  
Bazinet, J., BA MSc *Montr.* Prof.  
Arsène, Br., BA *Montr.* Prof.  
David, Br., BA BPéd *Montr.* Prof.  
Paul-Arsène, Br., BA BSc *Montr.* Prof.  
Francis, Br., BA BSc *Montr.* Prof.  
Benoît, Br., MSc *Montr.* Prof.

**Philosophy**

Marquis, Rev. R., BA *Montr.* Prof.  
Désorcy, Rev. A., BA BDC LPh DTh *Montr.* Pro  
Mercier, P., BA BPh *Laval* Pro  
Lambert, M., BA *Laval*, DTh *Rome* Pro  
Deslandes, Rev. A., BA LTh *Montr.* Pro  
Dandeneault, Rev. G., BA *Montr.*, DTh *Rome* Pro  
Bergeron, Rev. A., BA *Montr.*, PhD *Rome* Pro  
Cloutier, Rev. G., BA *Montr.* Pro

**Physics**

Boucher, C., MA *Montr.* Prof.  
Georges, Br., BA BScA *Laval* Prof.  
Valérie, Br., BA LPh *Montr.* Prof.  
Allard, J., BSc *SirG.Wms.* Prof.  
Boisvert, R., BA *Laval*, BScA McG. Prof.  
Denis, G., BA BScA *Montr.*, MSc *M.I.T.* Prof.  
Marc, Br., BA BSc *Montr.* Prof.  
Hubert, L., BA BScA *Montr.* Prof.  
Labrecque, Rev. A., BA *Montr.*, DTh *Rome* Prof.

**Religion**

Vachon, Rev. L., BA *Montr.* Prof.  
Maltais, Canon R., BA *Montr.*, LPh *Rome* Prof.  
Côté, Rev. W., BA BPéd *Montr.*,  
DScs *Rome* Prof.

**ADMINISTRATIVE AND OTHER STAFF**

DIRECTORS OF STUDIES. Fac. of Law: Judge  
J. C. Samson, BA LLL *Laval*; Fac. of Scis.:  
J. Lemieux, BA BScApp *Montr.*; Fac. of Comm.:  
R. Cousineau, BA LScC *Montr.*, MS(Comm)  
Col., PhD *Ott.*; Inst. of Pedagogy: P. H. Ruel,

BA LPéd LPs *Laval*; Teachers' Sch.: Mgr. M.  
O'Bready, BA *Montr.*, LèsL *Paris*. Coll.: J.  
Goulet, BA *Montr.*, BPéd LPh *Laval*. Chaplain  
of Students: Rev. L. Vachon. Public Reins.:  
A. Vaillancourt.

## AFFILIATED INSTITUTIONS

**SECONDARY OR CLASSICAL STUDIES.** The following 12 colls. for boys and 3 colls. for girls are affiliated to the univ. Each provides a 4-yr. high sch. course followed by a 4-yr. coll. or arts course,

*For boys :—*

**SÉMINAIRE DE SHERBROOKE**, C.p.790, Sherbrooke (tel. : LO 2-2126) (founded 1875). Rector—Canon D. Lessard, BA.

**COLLÈGE NOTRE-DAME-DES-SERVITES**, Ayer's Cliff (Stanstead), P.Q. (tel. : 153) (1945). Prior—Rev. M. Dégarie, BA.

**MONT STE.-ANNE**, Sherbrooke (tel. : LO 2-4676) (1947). Superior—Rev. E. Andereggen, BA.

**SCOLASTICAT DES FF. DU SACRÉ-CŒUR**, Arthabaska, P.Q. (tel. : 14) (1932). Dir.—Br. Louis-Thomas, BA BPh *Laval*.

**MONT SACRÉ-CŒUR**, Granby, P.Q. (tel. : FR 2-7454) (1932). Dir.—Br. Gedeon, BA DPéd *Montr.*

**INTERNAT CLASSIQUE DE MÉGANTIC**, Lac Mégantic, P.Q. (tel. : 4) (1955). Principal—Rev. R. Pelletier, BA *Montr.*

**INTERNAT CLASSIQUE D'ASBESTOS**, Asbestos, P.Q. (tel. : 452-r-3) (1956). Principal—Rev. F. Labbé, BA *Montr.*, BPéd.

**INTERNAT CLASSIQUE DE MAGOG**, Magog, P.Q. (tel. : VI 3-3267) (1955). Principal—Rev. R. Côté, BA *Montr.*

on the completion of which a student may qualify by exam. for the BA degree of the univ. admitting him to professional studies in the univ.

**COLLÈGE D'ALZON**, Bury (Compton), P.Q. (tel. : 68) (1955). Superior—Rev. A. Clermont, BA.

**COLLÈGE DES CLARÉTAINS**, Victoriaville, P.Q. (tel. : PL 2-4679) (1955). Superior—Rev. H. Pujohas, BA.

**SÉMINAIRE ST.-PIE-X**, 465 Bowen St., Sherbrooke (tel. : LO 2-3900) (1957). Superior—Rev. H. Roy, BA.

**SÉMINAIRE DES VOCATIONS TARDIVES**, Nicolet, P.Q. (1956). Superior—Canon A. Gaudet.

*For girls :—*

**COLLÈGE DU SACRÉ-CŒUR**, 475 Park, Sherbrooke (tel. : LO 9-2930) (1945). Directress—Sr. St. Romuald, BA.

**COLLÈGE MARIE-DE-LA-PRÉSENTATION**, Drummondville, P.Q. (tel. : 2-3744) (1955). Superior—Sr. St.-Gabriel-Archange, BA.

**COUVENT MAPLEWOOD**, Waterloo, P.Q. (tel. : 73) (1882). Superior—Sr. M. Angelbert, BA.

**SCHOOL OF HOUSEHOLD SCIENCE**, 114, rue de la Cathédrale, Sherbrooke, P.Q. (tel. : LO 2-9191). Directress—Sr. Ste.-Eugénie-de-la-Foi, MSc *Laval*. 4-yr. course leading to BScDom.

## GENERAL INFORMATION

The univ. was founded in 1954 by the Roman Catholic Archbishop of Sherbrooke, under an act of the legislature of the province of Quebec. It received its Roman Catholic charter in Nov. 1957.

**CONSTITUTION.** The chancellor, who is always the R.C. archbishop of Sherbrooke, is hd. of the univ. He administers through the executive : a rector, 2 vice-rectors, a sec.-general, a treasurer and 4 directors. These members are nominated by the chancellor and are responsible to him.

Each fac. has its own bd. responsible to the executive. The chancellor nominates the dean who is the hd. of that council. The other members are nominated by the executive.

Also responsible to the executive is the bd. of trustees, whose object is to collect, own and administer, in trust, for the univ. property and moneys.

**INCOME (1957-58).** Total income, \$179,426 fees, 97 per cent., govt. grants, 3 per cent.).

**FACULTIES AND DEANS.** *Arts*, Cañon R. Maltais ; *comm.*, C. E. Bélanger ; *law*, A. Leblanc ; *sci.*, A. Crépeau.

**UNIVERSITY PRECINCT.** The univ. has acquired 500 acres nr. the city of Sherbrooke for the intended campus and the bldgs. of the fac. of scis., fac. of comm., teachers' sch., coll. and admin. centre have already been erected there.

**LIBRARY.** 49,000 vols.

**ADMISSION.** See Appendix II.

**DEGREES.** BA—4 yrs. after jr. matric. ; BPéd—4 yrs. after 11th grade or jr. matric., 1 yr. after BA ; LPéd—1 yr. after BPéd ; BScDom—4 yrs. after 11th grade or jr. matric. ; LLL—3 yrs. after BA ; BScApp—6 yrs. after 12th grade, 5 yrs. after BA ; BSc—5 yrs. after 12th grade, 3 yrs. after BA ; BCom—3 yrs. after 12th grade, 2 yrs. after BA ; MCom—1 yr. after BCom.

**HONORARY DEGREES.** DU, LL.D, DSc, DSc (Econ), DPéd.

The LANGUAGE OF INSTRUCTION is French.

**FEES.** Comm. : 1st & 2nd yrs., \$350 ; 3rd, 4th & 5th yrs., \$400. Engin. : pre-engin., 1st & 2nd yrs., \$350 ; 3rd, 4th & 5th yrs., \$400. Exper. scis., law, \$350. Teachers' sch., \$150.



ACADEMIC YEAR. Sept. to May, 2 terms of 15 wks. each.

ADULT EDUCATION. The fac. of arts offers an extension course leading to the BA degree by evg. courses (day-time attendance not essential).

VACATION COURSES. Courses for practising teachers, leading to LPéd. (No regular session attendance essential).

PUBLICATION. *Annuaire Général*.

### THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Bldgs. approaching completion*: fac. of comm., teachers' sch., coll. and admin. centre.

HONORARY DEGREES. *DSc(Econ)*—Mayor H. Boivin, of Granby; E. Minville, dir., École des Hautes Études commerciales de Montréal; E. Maheu, pres., Chartered Accountants Inst., P.Q. *DSc*—G. Piette, former pres., Canadian Inst. of Professl. Engineers.

#### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1353	155
Women . . .	260	119
Total	1613	274

Distribution by Faculties. *Arts*, 1325; *comm.*, 186; *law*, 67; *sci.*, 309. Total: 1887.

*Included in the figures above are* :—

Postgraduate students, nil.

New admissions, 506.

Student from other country, 1 (China).

DEGREES AWARDED (1958-59). *Arts*: BA, 61; BPéd, 80. *Comm.*: BCom, 7; MCom, 21. *Law*: LL.L, 12. *Sci.*: BScApp, 22.

# SIR GEORGE WILLIAMS UNIVERSITY\*

Founded 1929 ; incorporated 1948

*Postal Address* : 1435 Drummond Street, Montreal 25, P.Q., Canada  
*Cables and Telegrams* : Sir George Williams University, Montreal, Quebec  
*Telephone* : VI.4-0131

PRINCIPAL AND VICE-CHANCELLOR—H. F. HALL, BA *Eastern (Pa.)*, LL.D *McM.*, DD *Montreal Diocesan*  
 DEPUTY-PRINCIPAL AND REGISTRAR—D. B. CLARKE, MA *McG.*, BA  
 DEAN—R. C. RAE, BA BSW *Tor.*, STh *Trin.Coll.Tor.*  
 CHANCELLOR—H. G. WORRELL, BA  
 LIBRARIAN—LOUISA FAIR, MA *McG.*

## TEACHING STAFF

[† = Part-Time]

### Accountancy

Annie, J. G., BSc(Com), CA  
 Burke, D. W., CA  
 Clarkson, L. G., BCom  
 Cook, D. W., BCom *McG.*  
 Gallon, R. H., BCom *McG.*  
 Godel, E., BCom *McG.*  
 Horner, F. H., BCom *McG.*  
 Ledoux, E. R.  
 Mann, H., BCom  
 McBain, J. R.  
 Mendelsohn, B. J., BCom  
 Reavely, S. D., BBA *Penn.*  
 Timmouth, E. W.

### Biology

Honeyman, J. M., BA *McG.*, AM *Harv.* Prof.  
 Peets, D. L., BSc *McG.* Assoc. Prof.  
 Black, W. F., BSc *Manit.*, PhD *McG.* Asst. Prof.  
 Hard, Joan, MSc *McG.* Lectr.  
 Steele, D., BSc *W.Ont.*, MSc *McG.* †Lectr.  
 Ward, Pamela, BSc †Lectr.

### Chemistry

Madras, S., PhD *McG.*, BSc Prof.  
 Offord, J. R., BEng *McG.*, MASc *Tor.*  
 Perschingel, R. H. C., PhD *McG.*, BSc Assoc. Prof.  
 Andir, J., BSc Lectr.  
 Long, A. D., BSc Lectr.  
 Dick, J. G., BSc †Lectr.  
 Fisher, M. H., MSc *Lond.* †Lectr.  
 George, Z. M., MSc *Agra*, PhD *McG.* †Lectr.  
 Hummer, L. G., PhD *New Br.*, BSc †Lectr.  
 Massiah, T., BSc †Lectr.

### Classics

Widdows, P. F., BA *Oxon.* Lectr.

### Commerce

Pugsley, P. T. R., BA BCom, CA, FCIS Prof.  
 Dickie, A., BCom *McG.*, CA Asst. Prof.  
 Curnew, G. R., BCom, CA Lectr.  
 Franklin, M. H., BA BCL *McG.* Lectr.  
 Amsden, J. F. B., BCom *Manit.* †Lectr.  
 Archer, J. B., BA BSc †Lectr.  
 Bilodeau, L. J., BA *McG.* †Lectr.  
 Breida, C. J., BCL *Oslo* †Lectr.  
 Brooke, C. A. †Lectr.  
 Burns, D. W., BSc *Bishop's* †Lectr.  
 Byleveld, H. C., MEc *Rotterdam* †Lectr.  
 Chandler, H. W., BSc(Com) †Lectr.  
 Collard, E. G., BA BCL *McG.* †Lectr.  
 Crawford, J. †Lectr.  
 Cunningham, G. J. †Lectr.  
 Davies, W. H., BCom †Lectr.  
 Earle, V. H., MA *Camb.* †Lectr.  
 Edge, W. A., BA *McG.* †Lectr.  
 Ferguson, J. R., BCom BA †Lectr.  
 Foley, T. P. †Lectr.  
 Gill, H. T., BA *Oxon.* †Lectr.  
 Ham, A. K., BA *McG.* †Lectr.  
 Hassam, W. C. †Lectr.  
 Henneberry, Barbara, BSc MBA *McG.* †Lectr.  
 Holmes, G. A., BCom *McG.* †Lectr.  
 Innes, W. D., BCom †Lectr.  
 Jansen, O. V. †Lectr.  
 Kendall, G. C. †Lectr.  
 Klimes, A. S., BSc †Lectr.  
 Linton, R. D., BCom *McG.* †Lectr.  
 Mather, T. E., BCom *Tor.* †Lectr.  
 Maurice, G. U., BA *Ott.*, LScSoc *Montr.* †Lectr.

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McCann, J. A.	†Lectr.	Layton, I. P., BSc MA <i>McG.</i>	†Lectr.
McLaughlin, C., BA MCom <i>Montr.</i>	†Lectr.	MacDonald, R. J., BA <i>Acad.</i> , MA <i>Tor.</i>	†Lectr.
Moore, J. M.	†Lectr.	Magee, Eleanor, BLS <i>McG.</i> , BA BSc	†Lectr.
O'Brien, J. E., BA BCL <i>McG.</i>	†Lectr.	Manson, N., BA	†Lectr.
Rayner, G. T. E., BA <i>Bishop's</i> , MBA <i>Harv.</i>	†Lectr.	McGill, D., BA <i>Tor.</i>	†Lectr.
	†Lectr.	Miller, Mrs. Audrey, MA <i>Tor.</i>	†Lectr.
Read, L. M., BEng <i>McG.</i> , BA BSc	†Lectr.	Mitchell, C., BA <i>McG.</i>	†Lectr.
Read, T. C.	†Lectr.	Plaskett, Mrs. Ida, BA <i>McG.</i>	†Lectr.
Robb, J. A., BA BCL <i>McG.</i>	†Lectr.	Ram, A., BA	†Lectr.
Robertson, D. N. S., BA <i>Qu.</i> , BPæd <i>Tor.</i>	†Lectr.	Say, Mrs. Shirley	†Lectr.
	†Lectr.	Smith, Ruth, BA <i>Qu.</i>	†Lectr.
Smola, J., BCom	†Lectr.	Stokes, Mrs. Anne, BA	†Lectr.
Sutton, G. D., MCom <i>Qu.</i>	†Lectr.	Thacher, Mrs. Willa, BA <i>Manit.</i>	†Lectr.
Swartz, R., MA <i>Tor.</i>	†Lectr.	Walker, M. G., BA <i>McG.</i>	†Lectr.
Thorsteinsson, P. N., LLB <i>Br.Col.</i>	†Lectr.	Weyland, Henrietta	†Lectr.
Threlfall, M. S.	†Lectr.	Wrath, Mrs. Beatrice, BA	†Lectr.
Trott, E. J. A.	†Lectr.	Young, Katherine, BA <i>McG. &amp; Oxon.</i>	†Lectr.

**Economics**

Lerner, A., MA <i>Tor.</i>	Prof.	Clarke, D. B., MA <i>McG.</i> , BA	Prof.
O'Brien, J., MA <i>McG.</i>	Asst. Prof.	Adams, K. D., BSc LMus <i>McG.</i>	†Lectr.
Armstrong, Mrs. Muriel, BEd <i>Alta.</i> , MA <i>McG.</i>	†Lectr.	Allen, Mrs. Thelma	†Lectr.
Halford, C. R., BCom	†Lectr.	Billmeier, R.	†Lectr.
Marshall, Mrs. Joyce, MCom <i>McG.</i>	†Lectr.	Caiserman, Ghitta	†Lectr.
Petros, D. S., BSc <i>Chic.</i>	†Lectr.	Opala, Mrs. Beatrice, BA	†Lectr.
Simcoe, L., BA BCL <i>McG.</i>	†Lectr.	Pinsky, A.	†Lectr.
Tarasofsky, A., BCom	†Lectr.	Sherman, Mrs. Leah, MA <i>N.Y.</i> , BA	†Lectr.
		Springford, Norma	†Lectr.
		Whceler, O., BA <i>Bishop's</i>	†Lectr.

**Education**

Finley, E. G., BA BCom <i>McG.</i> , EdD <i>Col.</i>	Lectr.		
Johnstone, W. D., BA	Lectr.		

**Engineering**

Bordan, J., BEng MSc <i>McG.</i>	Assoc. Prof.		
MacDormand, R. I., BSc <i>New Br.</i> , MSc <i>Qu.</i>	Lectr.		
Levine, S., MEng <i>McG.</i>	†Lectr.		
Goldman, C., MEng <i>McG.</i>	†Lectr.		
McDougall, D. J., MSc PhD <i>McG.</i>	†Lectr.		
Tarandi, L. E.	†Lectr.		

**English**

Compton, N., MA <i>McG.</i>	Assoc. Prof.		
Francis, Wynne P., BA	Asst. Prof.		
Lamb, S. S., BA <i>McG.</i>	Asst. Prof.		
Maclean, Mrs. Lorna, BA <i>Tor.</i> , MA <i>Smith</i>	Asst. Prof.		
Tobias, Rytsa, BA	Asst. Prof.		
Belkin, Mrs. Roslyn, BA	Lectr.		
Arnold, L., BA	†Lectr.		
Arthurs, A. D. G., MA <i>Acad.</i> , BPæd <i>Tor.</i>	†Lectr.		
Briggs, Mrs. Ruth, BA <i>Sask.</i>	†Lectr.		
Brocklehurst, Mrs. Mildred, BA <i>McG.</i>	†Lectr.		
Candib, A., BA	†Lectr.		
Cochrane, E. G., BA	†Lectr.		
Etheridge, K. C., BA	†Lectr.		
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Flood, J.	†Lectr.		
Friend, Mrs. Myrna, BA <i>McG.</i>	†Lectr.		
Jonas, R. C., BSc <i>Springfield</i> , BA	†Lectr.		
Lamb, Mrs. Sylvia, BA	†Lectr.		

**Fine Arts**

Clarke, D. B., MA <i>McG.</i> , BA	Prof.
Adams, K. D., BSc LMus <i>McG.</i>	†Lectr.
Allen, Mrs. Thelma	†Lectr.
Billmeier, R.	†Lectr.
Caiserman, Ghitta	†Lectr.
Opala, Mrs. Beatrice, BA	†Lectr.
Pinsky, A.	†Lectr.
Sherman, Mrs. Leah, MA <i>N.Y.</i> , BA	†Lectr.
Springford, Norma	†Lectr.
Whceler, O., BA <i>Bishop's</i>	†Lectr.

**French**

Whitelaw, J. H., MA <i>Oxon.</i>	Assoc. Prof.
Losic, S., IèsL <i>Paris</i>	Lectr.
Argall, Marguerite, BA <i>Adelphi</i> , MA <i>McG.</i>	†Lectr.
Irwin, Norah F., MA <i>McG.</i>	†Lectr.
Loiselle, Phyllis, BA	†Lectr.
Revai, Elizabeth, PhD <i>Bud.</i>	†Lectr.

**Geography**

Clinch, H. A., BA <i>Tor.</i> , MA <i>McG.</i>	Asst. Prof.
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**German**

Flore, R. F.	†Asst. Prof.
Waseem, Gertrude	†Lectr.

**Hebrew**

Brandwein, C.	†Lectr.
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**History**

McCullough, E. E., BA <i>Qu.</i> , MA <i>McG.</i>	Assoc. Prof.
Ayre, D. E., BA	Lectr.
Nish, C., BA	Lectr.

**Humanities**

Thompson, C. W., MA <i>Oxon.</i>	†Emer. Prof.
Wasserman, Mrs. Rachel, MA <i>McG. &amp;</i> <i>Radcliffe</i> , PhD <i>Corn.</i>	Prof.

**Journalism**

Macfarlane, D. B., MA <i>Montr.</i> , BA	†Lectr.
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**Mathematics**

Smith, N. E., BA <i>New Br.</i> , PhD <i>McG.</i>	Prof.
Sparling, C. C., BA <i>Qu.</i>	Assoc. Prof.
Vowles, Edna, BSc <i>Brist.</i>	Assoc. Prof.
Zweig, J. P., MA <i>McG.</i> , BSc BSc(Com)	Assoc. Prof.
Harrow, M., BSc <i>McG.</i>	Asst. Prof.
Turgeon, J., MA PhD <i>Col.</i>	Lectr.
Bedford, F. W., BA <i>Loyola (Montr.)</i> , BSc	†Lectr.
Boswall, Mrs. Mary, BSc <i>Dal.</i>	†Lectr.
Deathe, E. W., BA <i>Dal.</i>	†Lectr.
Dingwall, R. A., BSc <i>Alta.</i> , MSc <i>Ill.</i>	†Lectr.
Pidd, K., BSc <i>Hull</i>	†Lectr.
Politzer, E. A., BSc <i>Shanghai</i>	†Lectr.
Schwartz, H. H., BEng <i>McG.</i> , SM M.I.T.	†Lectr.
Smith, L. J., BSc	†Lectr.
Stallard, S. E., BSc <i>Mt.All.</i> , MA <i>New Br.</i>	†Lectr.
Storr, E., BA <i>Oxon.</i>	†Lectr.

**Natural Sciences**

Hall, H. F., BA <i>Eastern (Pa.)</i> , LL.D. <i>McM.</i> , DD <i>Montreal Diocesan</i>	Prof.
Paterson, E. R., BA <i>McG.</i>	†Asst. Prof.
Topham, W. T. T., BSc	†Lectr.

**Philosophy**

Fraser, W. R., BA <i>Mt.All.</i> , MA <i>Dal.</i>	Prof.
Angel, R. B., BA <i>McG.</i>	Lectr.

**Physics**

Raudorf, W. R., PhD <i>Vienna</i>	Prof.
Petolas, J. P., BSc	Assoc. Prof.
Lange, L. P., MSc <i>Birm.</i> , BSc	Lectr.
Tomas, F., BSc	Curator

**Political Science**

Quinn, H. F., MA <i>McG.</i> , PhD <i>Col.</i> , BA	Prof.
Fraser, R. A., BA	Lectr.
Angell, H., BA	†Lectr.
Frankel, S., MA <i>McG.</i>	†Lectr.
Hecht, T. O., BA	†Lectr.
Plunkett, T., MA <i>McG.</i> , BA	†Lectr.
Schwartz, D. D., BA <i>Qu.</i> , BCL <i>McG.</i> , LL.M. <i>Harv.</i>	†Lectr.

**Psychology**

Bridges, J. W., BA <i>McG.</i> , AM PhD <i>Harv.</i>	Prof.
Ciale, J., MA <i>Montr.</i> , BA	†Lectr.
Irvine, Mrs. Lucille, MA <i>McG.</i>	†Lectr.
Mahoney, G. M., MSc PhD <i>McG.</i> , BSc	†Lectr.
Mahut, Helen, PhD <i>McG.</i> , BSc	†Lectr.

**Religious Knowledge**

Sinyard, Rev. B. G., BA <i>Bishop's</i> , MA <i>Tor.</i> , BD <i>Trin.Coll.Tor.</i> , S.T.M. <i>U.T.S.(N.Y.)</i>	Lectr.
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**Sociology**

Potter, H. H., MA <i>McG.</i> , BA	Assoc. Prof.
Insley, D.	Lectr.
Rae, R. C., BA BSW <i>Tor.</i> , S.Th <i>Trin.Coll.Tor.</i>	Lectr.
Sproule, J. A., MPSc <i>McG.</i> , BA	Lectr.
Dimock, H. G., BA <i>Beloit</i> , EdD <i>Col.</i>	†Lectr.
Peritz, Bernice, BA <i>Tor.</i>	†Lectr.

**Spanish**

Stegen, G. F., BA	†Lectr.
Toscano, Jeannie, BA <i>McG.</i>	†Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar : R. A. Fraser, BA. Assts. to Registrar : D. E. Ayre, BA ; J. R. McBride, BA. Asst. Dean : D. L. Peets, BSc. Asst. Dean, Student Affairs : M. Flynn, BCom. Student Counsellor : J. A. Sproule, BA MPSc. Asst. Student Counsellors : G. R. Lowe, MA ; Jean P.

Harder, MA. Supervisor of Records : Mona Osborne. Supervisor of Accounts : F. Sauer. Admin. Asst. to Principal : E. G. Finley, BCom. MA. Dir. of Athletics : D. Insley. Admin. Asst., Evg. Division : W. D. Jahnstone, BA.

**GENERAL INFORMATION**

Sir George Williams Univ. (named after the founder of the Y.M.C.A.) has developed from the formal educnl. work of the Montreal Y.M.C.A. inaugurated in 1873. First classes at univ. level were offered in 1929 in the evg. division, and day courses in arts, sci. and comm. were inaugurated in 1932. The members of the first class graduated in 1936 and by 1957 some 2916 degrees had been presented. Throughout this period the coll. had been conducted under the terms of the charter of the Montreal Y.M.C.A. (consolidation June 1888).

In March 1948, however, the univ. was granted a specific charter by the provincial legislature, establishing it a body corporate and politic, for the purpose of conducting a coll. or univ. in the province of Quebec. Its historic connexion with the Y.M.C.A. is preserved by by-law.

Similar courses are offered and the same standards are maintained in both day and evg. divisions, although evg. students are required to attend for a longer period to complete degree requirements.

**INCOME** (1958). \$1,400,834 (student fees, 86·8 per cent.; provincial govt. grant, 7·14 per cent.; Y.M.C.A. subsidy, 3·91 per cent.; auxiliary enterprises, 2·15 per cent.).

**FACULTIES.** The facs. of arts, sci. and comm. are closely integrated under the general supervision of the dean of the univ. To ensure a broad general basis to the educnl. programme of each fac., the work of the univ. as a whole is further organized in four divisions, each supervised by a sr. prof.: natural sci. div.—Sr. Prof. S. Madras; soc. sci. div.—Sr. Prof. J. W. Bridges; humanities div.—Sr. Prof. W. R. Fraser; comm. div.—Sr. Prof. P. T. R. Pugsley.

**LIBRARY.** 34,000 vols.

**LABORATORIES.** Biol., chem., electricity, phys., exper. psychol. Four art studios available for work in fine & appl. arts.

**ADMISSION.** See Appendix II.

**PARTIAL STUDENTS.** Non-matriculated students are admitted to evg. courses for partial programmes, provided that their background is such that they may follow the courses desired.

**DEGREES.** 4 yrs.—BA, BSc, BCom (longer in the evg. courses). No hons. degrees or higher degrees are awarded. Attendance at lectures is required for all programmes.

**DIPLOMAS.** 2 yrs. (longer in evg. div.)—AssocArts, AssocSc, AssocCom, dipl. in engin. 4-yr. course for dipl. in association sci. for professional Y.M.C.A. secretaryship.

**FEES.** Annually for tuition—day div.: \$300; plus \$25 lab. fee for each course involving lab. work, \$15 student soc. fee. Evg. div.: \$50 for each 8-month subject, \$25 for each 4-month subject, plus \$25 lab. fee for each course involving lab. work.

**SUMMER SESSION** offered each yr. in the evg. div. only, from May 26 to Aug. 28, credits for which are given towards degrees of BA, BSc and BCom.

**PLACEMENT SERVICE** for students and grads. offered by student guidance office in conjunction with natnl. employment service.

**RESIDENCE.** Men students may reside in the Y.M.C.A. dormitories which occupy space in one of the bldgs. used by the univ. Residential accomm. for women students is available in the Montreal Y.W.C.A., within walking distance of the univ.

**MILITARY TRAINING.** Univ. contingents prepare students for commissions in Canadian army (reserve), Canadian navy (reserve) and R.C.A.F. radar and communications (reserve).

**STUDENT ATHLETIC FACILITIES.** Gymnasium and swimming pool.

**PUBLICATIONS.** *Calendar* (July); *The Georgian* (students' weekly newspaper); *The Yearbook* (graduating class annual); *The Post-Grad* (quarterly of Alumni Assocn.).

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959 60

	<i>Full-Time Part-Time</i>	
Men	1287	3475
Women	285	1194
Total	1572	4669

Distribution by Faculties, etc. Arts, 1910; comm., 1651; engin., 131; sci., 1425; partial students, 1124. Total: 6241.

*Included in the figures above are:—*

Postgraduate students, nil.

New admissions, 1762.

Students from other countries, 155. (Countries from which largest numbers came: W. Indies Fed., 73; Hong Kong, 34).

**DEGREES AWARDED** (1958–59). BA, 211 BSc, 100; BCom, 157.

**DIPLOMAS AWARDED** (1958–59). AssocArts, 16; AssocSc, 6; AssocCom, 4; dipl. in association sci., 5; engincert, 8.

# UNIVERSITY OF TORONTO\*

Founded 1827

with which are federated

UNIVERSITY OF ST. MICHAEL'S COLLEGE, TORONTO,  
UNIVERSITY OF TRINITY COLLEGE, TORONTO,  
VICTORIA UNIVERSITY, TORONTO, and  
KNOX, WYCLIFFE and EMMANUEL COLLEGES

*Postal Address* : Toronto 5, Ontario, Canada

*Cables and Telegrams* : Toronto University, Toronto

*Telephone* : WA 3-6611

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CHAIRMAN OF THE BOARD OF GOVERNORS—Col. W. E. PHILLIPS, CBE, DSO, MC, BASc LL.D.

PRESIDENT—C. T. BISSELL, PhD *Corn.*, DLitt *Manit.*, LL.D. *McG.*, *Qu. & New Br.*, MA, FRSCan

EXECUTIVE ASSISTANT TO THE PRESIDENT—J. H. SWORD, BA *Manit.*, MA

VICE-PRESIDENT (ADMINISTRATION)—F. R. STONE, BCom, FCA

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COMPTROLLER—G. L. COURT, DFC, MCom

SECRETARY TO THE BOARD OF GOVERNORS—J. F. BROOK

LIBRARIAN—R. H. BLACKBURN, MA *Alta.*, MS *Col.*, BLS

SUPERINTENDENT OF BUILDINGS AND GROUNDS—F. J. HASTIE, BSc *Alta.*

CHIEF ACCOUNTANT—D. J. REID

DIRECTOR OF UNIVERSITY EXTENSION—D. C. WILLIAMS, BA *Manit.*, MA PhD

## TEACHING STAFF

[† = Part-Time]

*Note.*—In the following list the members of the staff in the Faculty of Arts and Science who are members of staffs of Colleges are indicated thus :

University College (C)

Victoria College (V)

Trinity College (T)

St. Michael's College (M)

**Accounting**, see Pol. Econ.

**Archæology**, see Art and Archæol.

### Anthropology

McIlwraith, T. F., MA *Camb.*, FRSCan  
Prof., Hd. of Dept.  
Emerson, J. N., PhD *Chic.*, MA Assoc. Prof.  
Voget, F. W., BA *Oregon*, PhD *Yale* Asst. Prof.  
Mayer-Oakes, W. J., PhD *Chic.* Asst. Prof.  
Van Stone, J. W., BA *Oberlin*, MA  
PhD *Penn.* Asst. Prof.  
Cohen, R., MSc *Wis.*, PhD BA Lectr.  
Dailey, R. C., MA PhD Lectr.  
Ellis, D., BA *McG. & Camb.*, PhD *McG.*,  
MA *Yale & Tor.* Lectr.  
1 Asst.

### Architecture, School of

Howarth, T., PhD *Glas.*, FRIBA Prof., Dir.  
Arthur, E. R., MA BArch *Liv.*, FRIBA Prof.  
Carswell, W. E., BArch Prof.  
Raymore, W. G., BArch Assoc. Prof.  
Barker, R. J. K., BArch Assoc. Prof.  
Murray, J. A., BArch Assoc. Prof.  
Acland, J. H., BArch *Syr.*, AM *Harv.* Assoc. Prof.  
Adamson, A. P. C., MA *Camb.* Assoc. Prof.  
Kent, S. R., BArch Asst. Prof.  
Robb, G. A., BArch Asst. Prof.  
McBain, W. J., BArch Asst. Prof.  
Dakin, A. J., BA *S.A.* Asst. Prof.

\* Member of the Association of Universities of the British Commonwealth

Grooms, R. H., MSc *Wis.* Asst. Prof.  
 Hall, J. A. Asst. Prof.  
 Hugo-Brunt, M., BArch *Cape T.*,  
 MCD *Liv.*, March *Corn.* Asst. Prof.  
 Elken, A., DipEngArch *Munich & Helsinki* Asst. Prof.  
 Goulding, W. S., BArch *Harv.*, BA Asst. Prof.  
 Lee, D. H., BArch *McG.*, MSc *Ill.* Asst. Prof.  
 Watts, F. H. Lectr.  
 Grossman, I., BArch Lectr.  
 Halfhide, E. W., BArch *McG.* Lectr.  
 Hardy, E., BA Sp. Lectr.  
 3 Instrs., 1 Asst.

### Art and Archæology

Brieger, P. H., PhD *Bies.* Prof., Hd. of Dept.  
 Graham, J. W., MA *Acad.*, PhD *Johns H.* Prof.  
 Brett, G., MC, MA *Oxon.* Assoc. Prof.  
 Vickers, G. S., BA *McM.*, AM *Harv.* Assoc. Prof.  
 Morey, G. T. Asst. Prof.  
 Winter, F. E., BA *McG.*, PhD Asst. Prof.  
 Brett, Mrs. Katharine B. Sp. Lectr.  
 Needler, Winifred E., BA Sp. Lectr.  
 Spendlove, F. St. G., DipArchit *Lond.* Sp. Lectr.  
 Brooks, H. A., BA *Dartmouth*, MA *Yale*,  
 PhD *Northwestern* Lectr.  
 Finley, G. E. Lectr.  
 Vitzthum, W. A., PhD *Munich* Lectr.  
 1 Reader, 1 Asst.

### Astronomy

Heard, J. F., BA *W.Ont.*, MA *McG.*,  
 PhD *McG. & Lond.*, FRSCan  
 Prof., Hd. of Dept., Dir. of Observatory  
 MacRae, D. A., AM PhD *Harv.*, BA Prof.  
 Hogg, Mrs. Helen B. S., AB DSc *Mt. Holyoke*,  
 AM PhD *Radcliffe*, FRSCan Prof.  
 Northcott, Ruth J., MA Asst. Prof.  
 Searle, L., PhD *Prin.* Asst. Prof.  
 Van den Bergh, S., AB *Prin.*, MSc *Ohio*,  
 DrRerNat *Gött.* Asst. Prof.  
 Wright, K. O. Sp. Lectr.  
 1 Res. Assoc.

### Biology, see Zool.

### Botany

Badenhuizen, N. P. Prof., Chairman of Dept.  
 Bailey, D. L., BA *Qu.*, MS PhD *Minn.*,  
 FRSCan (Plant Pathol.) Prof.  
 Bannan, M. W., BA PhD, FRSCan Prof.  
 Forward, Dorothy F., PhD *Comb. & Tor.*,  
 MA Assoc. Prof.  
 Bidwell, R. G. S., BSc *Dal.*, PhD *Qu.* Assoc. Prof.  
 Cain, R. F., MA PhD Assoc. Prof.  
 Lehmann, A. J. V., MSc *Alta.* Assoc. Prof.  
 Soper, J. H., MA *McM.*, PhD *Harv.* Asst. Prof.  
 Rothfels, K. H., BA PhD Asst. Prof.  
 Morgan-Jones, J. F., MSc *Manit.* Asst. Prof.  
 Bray, J. R., BA *Ill.*, PhD *Wis.* Asst. Prof.  
 Gorham, E., MSc *Dal.*, PhD *Lond.* Asst. Prof.  
 Hull, Kathleen L., MA *McM.*, PhD *Chic.* Asst. Prof.  
 1 Res. Asst., 12 Assts.

### Business, School of

Main, O. W., BA *McM.*, PhD Prof., Dir.  
 Graham, T. C., MBE, BAsc Prof.  
 Coutts, W. B., BA Assoc. Prof.  
 Sawatsky, J. C., BA *Manit.*, MA PhD Assoc. Prof.  
 Thomson, W. S., MA *Camb.*, MCom Assoc. Prof.  
 Toombs, F. C., PhD *Chic.* Assoc. Prof.  
 Beckett, W. A., MA Asst. Prof.  
 Moyer, M. S., MCom Asst. Prof.  
 Poapst, J. V., MCom *McG.* Asst. Prof.  
 Sarjeant, J. S., BAsc MCom Asst. Prof.  
 Presgrave, R., BAsc Lectr.  
 Vosburgh, R. E., BS *Miami*, MBA *Indiana* Lectr.  
 Laskin, B., LLM *Harv.*, MA LLB Sp. Lectr.  
 Line, W., OBE, BSc *Mt. All.*, MA  
 Med *Alta.*, PhD *Lond.* Sp. Lectr.

### Chemistry, see also Appl. Sci. and Engin., below, and Food Chem.

LeRoy, D. J., MA PhD, FRSCan Prof., Hd. of Dept.  
 Gordon, A. R., OBE, MA PhD, FRSCan Prof.  
 Wright, G. F., MBE, BSc  
 PhD *Iowa State Agric.* Prof.  
 Beamish, F. E., MA *McM.*, FRSCan Prof.  
 Yates, P. Prof.  
 Wetmore, F. E. W., BSc *New Br.*, MA  
 PhD, FRSCan Prof.  
 McIntosh, R. L., MBE, BA MSc *Dal.*,  
 PhD *McG.*, FRSCan Prof.  
 Lorrinan, F. R., BEM, MA PhD Assoc. Prof.  
 Lister, M. W., MA DPhil *Oxon.* Assoc. Prof.  
 Rae, J. J., BA *McM.*, MA PhD, FCIC Assoc. Prof.  
 Allen, A. D., BSc PhD *Lond.* Assoc. Prof.  
 Brook, A. G., BA PhD Assoc. Prof.  
 Polyani, J. C., MSc PhD *Manc.* Assoc. Prof.  
 Page, J. A., MSc *McM.*, PhD *Harv.* Asst. Prof.  
 Hiatt, R., BA *Wooster*, MA PhD *Harv.*  
 Asst. Prof.  
 Dignam, M. J., PhD Asst. Prof.  
 Danyluk, S. S. Asst. Prof.  
 Harrison, A. G., MSc *W.Ont.*, PhD *McM.*  
 Asst. Prof.  
 McLean, S. Asst. Prof.  
 32 Demrs., 5 Res. Assts., 3 Instrs.

### Child Study, Institute of

Blatz, W. E., PhD *Chic.*, MA MB Dir. of Inst.  
 Millichamp, Dorothy A., MA Assoc. Prof., Asst. Dir.  
 Bernhardt, K. S., PhD *Chic.*, MA Asst. Dir.  
 Northway, Mary L., MA PhD Asst. Prof.  
 Grapko, M. F., BA *Manit.*, MA PhD Lectr.  
 Fletcher, Margaret I. Supervisor  
 Minkler, Mrs. Rachel, BA *Qu.* Supervisor  
 20 Instrs., 3 Res. Assts., 3 Res. Assocs.

### Chinese Studies, see East Asiatic Studies

### Classics

Woodbury, L. E., BA *Manit.*, AM  
 PhD *Harv.* Prof., Hd. of Dept. (C)

Iagnani, G., DLitt *Rome*, FRSCan  
(Classics) Prof. (C)  
Wallace, W. P., PhD *Johns H.*,  
BA *Oxon. & Tor.* Prof. (C)  
Reichelheim, F. M., PhD *Giessen*  
Assoc. Prof. (C)  
Gould, W. J. N., PhD *Dub.* Asst. Prof. (C)  
Thomson, D. F. S., MA *Oxon.* Asst. Prof. (C)  
Shepherd, R. M. H., MA *Camb.* Asst. Prof. (C)  
Corwood, Mrs. Frances M. H., PhD *Wis.*,  
MA Asst. Prof. (C)  
List, J. M., BA *Camb.* Lectr. (C)  
Robertson, H. G., PhD *Chic.*, BA  
(Greek) Prof., Chairman of Dept. (V)  
Robson, D. O., MA PhD (Latin) Prof. (V)  
Keyes, G. L., PhD *Prin.*, MA Assoc. Prof. (V)  
Grant, J. R., AM PhD *Harv.*, BA  
Assoc. Prof. (V)  
Le Montmollin, D. P., Dèsl *Neuchâtel*  
(Greek) Asst. Prof. (V)  
Sparschott, F. E., MA *Oxon.* Asst. Prof. (V)  
Grube, G. M. A., MA *Camb.*, FRSCan  
Prof., Hd. of Dept. (T)  
Tonacher, D. J., MA *Qu.*, PhD *Chic.*  
Assoc. Prof. (T)  
White, Mary E., MA *Oxon. & Qu.* Assoc. Prof. (T)  
Johs, J. W., MA *Oxon.* Asst. Prof. (T)  
Parp, A. J., MA *Cinc.*, MLitt *Camb.*, BA  
Asst. Prof. (T)  
Dalzell, A., MA BLitt *Dub.* Asst. Prof. (T)  
Philp, J. A., DLitt *Florence*, BA Asst. Prof. (T)  
Muckle, Rev. J. T., MA *C.U.A.*, LittD *W.Ont.*,  
LLD *Assum.*, FRSCan Prof. (M)  
Kennedy, Rev. V. L., Lèsl *Stras.*,  
ArchD *Rome*, MA Prof. (M)  
O'Donnell, Rev. J. R., MA PhD Prof. (M)  
Wev, Rev. J. C., MA Prof. (M)  
St. John, Sister Mary, MA Assoc. Prof. (M)  
St. Stanislaus, Sister Mary, MA Assoc. Prof. (M)  
Sheridan, Rev. J., BA *N.U.I.*, MA PhD  
Assoc. Prof. (M)  
Blandina, Sister Mary, MA Asst. Prof. (M)  
McNeil, Rev. D. J. J., MA Asst. Prof. (M)  
Stella Marie, Sister M., PhD *Corn.*, MA  
Lectr. (M)  
Instr. (C), 1 Instr. (M)

#### Dentistry, see below

#### East Asiatic Studies

Johnson, W. A. C. H., MA *Oxon.*  
Prof., Hd. of Dept.  
Valmsley, L. C., BA DPæd Assoc. Prof.  
Shih, C. C., BA *Peiping*, BD *Hartford*, MA  
PhD *Chic.* Asst. Prof.  
Smith, R. M., MA *St.And. & Oxon.* Asst. Prof.  
Robinson, R. H., BA *Alta. & Lond.* Lectr.  
Instr.

#### Economics, see Pol. Econ.

#### Education, see Ontario Coll. of Education, p. 327

#### Embryology, see Zool.

#### Engineering, see Applied Science and Engin- eering, below

#### English

Woodhouse, A. S. P., AM *Harv.*, DLitt *Acad.*,  
Hon. LLD *Br.Col.*, BA, FRSCan  
Prof., Hd. of Dept. (C)  
Endicott, N. J., BLitt *Oxon.*, BA *Oxon. &*  
*Tor.* Prof. (C)  
MacGillivray, J. R., PhD *Harv.*, MA,  
FRSCan Prof. (C)  
Priestley, F. E. L., MA *Alta.*, PhD, FRSCan,  
FRSL Prof. (C)  
Bessinger, J. B., AM PhD *Harv.* Assoc. Prof. (C)  
Harris, R. S., MA PhD *Mich.* Assoc. Prof. (C)  
Watt, F. W., BA *Br.Col.*, BLitt MA *Oxon.*,  
PhD Asst. Prof. (C)  
Carroll, J. J., BA *Ill.*, MA *Oxon.* Lectr. (C)  
McPherson, H. A., BA *Manit.*, MA *W.Ont.*,  
PhD Lectr. (C)  
Green, R. A., MA *Boston* Lectr. (C)  
Leyerle, J. F., BA *Oxon.* Lectr. (C)  
MacCallum, H. R., MA Lectr. (C)  
Pritchard, A., BA *Br.Col.*, PhD Lectr. (C)  
Woof, R. S., MA *Oxon.* Lectr. (C)  
Frye, H. N., MA *Oxon.*, LLD *Car.*,  
BA, FRSCan  
Prof., Principal of Victoria Univ. (V)  
MacLean, K., BA PhD *Yale* Prof. (V)  
Coburn, Kathleen H., BLitt *Oxon.*, MA,  
FRSL, FRSCan Prof. (V)  
Love, C. C., MA *Camb.*, PhD Assoc. Prof. (V)  
MacLure, M., MA *Acad.*, PhD Assoc. Prof. (V)  
Jenking, Ruth I., MA Assoc. Prof. (V)  
Hoeriger, F. D., PhD *Lond.*, MA Asst. Prof. (V)  
Knight, D. J., PhD *Yale*, MA Asst. Prof. (V)  
Kee, K. O., MA PhD Asst. Prof. (V)  
Robson, J. M., MA PhD Asst. Prof. (V)  
Macpherson, Jay, BA *Car.*, BL.S *McG.*,  
MA Lectr. (V)  
Barker, A. E., PhD *Lond.*, MA Prof. (T)  
Child, P. A., AM PhD *Harv.*, BA *Camb. &*  
*Tor.* Prof. (T)  
Roper, G. H., MA PhD *Chic.*  
Prof., Hd. of Dept. (T)  
Schieder, R. M. K., MA PhD Asst. Prof. (T)  
Wilson, M. T., PhD *Col.*, MA Asst. Prof. (T)  
Falle, G. G., MA *McG.*, PhD *Wis.* Asst. Prof. (T)  
Kirkwood, Mrs. Mossie M., MA PhD  
Sp. Lectr. (T)  
Bruckman, Mrs. P., AB *Wash.*, MA Lectr. (T)  
Pettigrew, J. S., MA *Tor. & Oxon.* Lectr. (T)  
Shook, Very Rev. L. K., AM PhD *Harv.*,  
MA Prof., Hd. of Dept. (M)  
McLuhan, H. M., MA *Manit. & Camb.*,  
PhD *Camb.* Prof. (M)  
Mallon, Rev. H. V., MA *Mich.*, BA Prof. (M)  
Madden, Rev. J. F., PhD *Harv.*, MA  
Asst. Prof. (M)  
Theall, D. F., AB *Yale*, MA PhD Asst. Prof. (M)  
Dominica, Sister Mary, MA Asst. Prof. (M)  
Marion, Sister Mary, PhD *Chic.*, MA  
Asst. Prof. (M)  
St. Francis, Sister Mary, MA Asst. Prof. (M)



Dorsey, Rev. J., MA *C.U.A.*, BA Asst. Prof. (M)  
 Geraldine, Sister Mary, MA PhD  
 Asst. Prof. (M)  
 Angela, Sister Mary, MA Lectr. (M)  
 Hennessey, Rev. B., MA Lectr. (M)  
 Leland, Rev. C., BA *Oberlin*, MA *Oxon.*  
 Lectr. (M)  
 13 Teaching Fellows (C) and 3 (M), 2 Instrs.  
 (C) and 1 (T), 2 Fellows (C) and 5 (V)

**Fine Art**, see Art and Archæol.

### Food Chemistry

Smith, M. Dorcen, MA PhD Prof.  
 Walker, E. Isabel, MA Asst. Prof.  
 Butterfield, Mrs. Jean R., MA Asst. Prof.  
 Freeman, Mrs. Ellen B., BA *N.Dakota*,  
 MA *Col.*, PhD *Minn.* Lectr.  
 Kagan, J. J., MA PhD Lectr.  
 Scott, Mrs. Joan, MA Lectr.  
 Parker, W. E., BSc *Acad.*, MSc PhD *McG.*  
 Sp. Lectr.  
 Meade, E. M., BSc PhD *Lond.* Sp. Lectr.

### Forestry

Sisam, J. W. B., BScF DSc *New Br.*,  
 MF *Yale* Prof.  
 Hosie, R. C., BScF MA Prof.  
 Farrar, J. L., PhD MF *Yale*, BScF Prof.  
 Buckingham, F. M., BScF *New Br.*,  
 MF *Harv.* Assoc. Prof.  
 Love, D. V., BScF *New Br.*, MF *Mich.*  
 Assoc. Prof.  
 Michell, A. S., CD, MF *Duke*, BScF Assoc. Prof.  
 Hall, A. D., BScF Asst. Prof.  
 Jorgensen, E., MF *Copenhagen* Asst. Prof.  
 Kissick, N. L., MF *Yale*, BScF Asst. Prof.  
 Armson, K. A., DipFor *Oxon.*, BScF Asst. Prof.

### French

Rouillard, C. D., AB *Bowdoin*, AM  
 PhD *Harv.*, FRSCan Prof., Hd. of Dept. (C)  
 Humphreys, H. L., BA *Mich.*, MA *Prin.*,  
 PhD *Col.* Prof. (C)  
 Finch, R. D. C., BA Prof. (C)  
 Graham, V. E., BA *Alta.*, MA *Oxon.*,  
 PhD *Col.* Prof. (C)  
 Joliat, E. A., BA *McG.*, DUParis Prof. (C)  
 Hayne, D. M., MA PhD *Ott.*, BA  
 Assoc. Prof. (C)  
 Parsons, C. R., MA *McG.*, PhD Assoc. Prof. (C)  
 Flinn, J., DUParis, MA Asst. Prof. (C)  
 Sanouillet, M., LèsL Dipl'd'ÉtSup *Paris*  
 Asst. Prof. (C)  
 Walker, J. A., MA PhD Asst. Prof. (C)  
 Balthazard, Isabelle G., MA Lectr. (C)  
 Curtis, A. R., MA *Wales* Lectr. (C)  
 Mathews, P., AM *Harv.*, BA Lectr. (C)  
 MacDonald, Marguerite D., DUParis Lectr. (C)  
 Trethewey, W. H., PhD *Chic.*, MA  
 Prof., Chairman of Dept. (V)  
 Wood, J. S., BA *Lond.*, MA *Birm.*,  
 DUParis Prof. (V)

Hare, F. A., MA Prof. (V)  
 Rièse, Laure, Dipl'd'ÉtSup *Neuchâtel*,  
 MA PhD Assoc. Prof. (V)  
 Cook, Alta L., BA Assoc. Prof. (V)  
 Ross, A. C. M., MA *McM.*, PhD  
 Assoc. Prof. (V)  
 Jeanes, R. W., DUParis, BA Asst. Prof. (V)  
 Rathe, C. E., MA Asst. Prof. (V)  
 de Montmollin, D. P., DèSL *Neuchâtel* Lectr. (V)  
 Rogers, W. S., AM *Col.*, BA  
 Prof., Hd. of Dept. (T)  
 Kennett, W. T. E., BA *Br.Col.*, MA  
 PhD *Prin.* Assoc. Prof. (T)  
 Ruddock, W. J., MA *Qu.*, BA Asst. Prof. (T)  
 Gillespie, Miss J. L., MA PhD Asst. Prof. (T)  
 Polak, Miss L., MA PhD *Lond.* Lectr. (T)  
 Bondy, Rev. L. J., MA *Chic.*, PhD *Johns H.*,  
 DèSL *Montr.*, LLD *Laval* & *Ott.*, BA  
 Prof., Hd. of Dept. (M)  
 Klem, Rev. L. J., PhD *Laval*, MA Prof. (M)  
 Lajeunesse, Rev. E. J., MA Assoc. Prof. (M)  
 Olga, Sister Mary, PhD *Laval*, MA  
 Assoc. Prof. (M)  
 Marie-Thérèse, Sister, MA PhD Asst. Prof. (M)  
 Donovan, Rev. R. B., PhD *Yale*, MA  
 Asst. Prof. (M)  
 Rice, Theresa, MA *Adel.*, PhD Asst. Prof. (M)  
 St.-Magdalen, Sister Mary, MA Asst. Prof. (M)  
 Corinne, Sister Mary, PhD *Laval*, MA  
 Asst. Prof. (M)  
 2 Teaching Fellows (C), 3 Instrs. (C) and 2  
 (V), and 1 Oral Instr. (V), 1 Fellow  
 (V) and 1 (C)

**Genetics**, see Zool.

### Geography

Putnam, D. F., BSA PhD Prof., Hd. of Dept.  
 Spelt, J., MA *Wis.*, PhD *Utrecht* Assoc. Prof.  
 Kerr, D. P., BA *Br.Col.*, MA PhD Assoc. Prof.  
 Dean, W. G., MA PhD *McG.* Asst. Prof.  
 Watts, F. B., MA *Syr.*, BA Asst. Prof.  
 Potvin, G., BA *Sacred Heart (N.B.)*,  
 LèsL *Laval* Lectr.  
 Tayyeb, A., MA *Alig.* Lectr.  
 Erskine, D. S., BSc *Acad.*, MA Lectr.

### Geological Sciences

Langford, G. B., PhD *Corn.*, BASc, FRSCan  
 (Mining Geol.) Prof., Hd. of Dept.  
 Fritz, Madelaine A., BA *McG.*, MA PhD,  
 FRSCan (Palæontol.) Prof.  
 Moorhouse, W. W., PhD *Col.*, MA,  
 FRSCan (Geol.) Assoc. Prof.  
 Currie, J. B., BA *McM.*, MA PhD Assoc. Prof.  
 Deane, R. E., BASc *Br.Col.*, PhD Assoc. Prof.  
 Smith, F. G., MSc *Manit.*, PhD Assoc. Prof.  
 Nuffield, E. W., BA *Br.Col.*, PhD Assoc. Prof.  
 Anderson, D. V., MA PhD Assoc. Prof.  
 Beales, F. W., MA *Camb.*, PhD Assoc. Prof.  
 Peach, P. A., BScEd *MA* PhD Asst. Prof.  
 Gorman, D. H., BSc *New Br.*, PhD Asst. Prof.  
 Gross, W. H., BSc *Br.Col.*, MA PhD Asst. Prof.

Rodgers, G. K., MSc *Br.Col.*, BASc Lectr.  
 Tovell, W. M., MS *Cal.Tech.*, BA Lectr.  
 Meen, V. B., MA PhD Sp. Lectr.  
 13 Assts., 2 Instrs.

**German**

Boeschstein, H., PhD *Rostock*, FRSCan  
 Prof., Hd. of Dept. (C)  
 Sinden, Margaret J., BA PhD Assoc. Prof. (C)  
 Milnes, H. N., PhD *Ohio State*, MA  
 Assoc. Prof. (C)  
 Hofrichter, Laura, MA PhD Asst. Prof. (C)  
 Wicbe, H. G., Dip *Odesa*, MA PhD  
 Asst. Prof. (C)  
 Surerus, J. A., BA Prof., Hd. of Dept. (V)  
 Arnold, R. K., PhD *Prague* Prof. (V)  
 Field, G. W., MA PhD Assoc. Prof. (V)  
 Lewis, C., MA *Oxon.* Prof., Hd. of Dept. (T)  
 Joyce, D. A., BA *McG.*, AM *Harv.*, PhD  
 Asst. Prof. (T)  
 Carson, Mrs. Victoria M., MA PhD  
 Assoc. Prof. (M)  
 1 Instr. (C), 1 Fellow (V)

**Graduate Studies, School of**

Gordon, A. R., OBE, MA PhD, FRSC Dean  
 (Grad. instructn. and supervision are undertaken by all Depts. of the Univ.)

**History**

Careless, J. M. S., AM PhD *Harv.*  
 Prof., Chairman of Dept.  
 Creighton, D. G., MA *Oxon.*, LLD *New Br.*,  
*Qu.*, *Sask.* & *Br.Col.*, DLitt *Manit.* &  
*McG.*, BA, FRSCan Prof.  
 Brown, G. W., MA PhD *Chic.*, LLD *Br.Col.*,  
 BA, FRSCan Prof.  
 Thornton, A. P., MA *Glas.*, DPhil *Oxon.* Prof.  
 Wilkinson, B., MA PhD *Manc.*, FRSCan Prof.  
 McDougall, D. J., MA *Oxon.*, BA Prof.  
 Saunders, R. M., MA *Clark*, PhD *Corn.* Prof.  
 Stacey, C. P., OBE, CD, AM PhD *Prin.*,  
 LLD *Mt.All.*, BA *Oxon.* & *Tor.* Prof.  
 Cairns, J. C., PhD *Corn.*, MA Assoc. Prof.  
 Conacher, J. B., MA *Qu.*, PhD *Harv.*  
 Assoc. Prof.  
 Craig, G. M., PhD *Minn.* Asst. Prof.  
 Powicke, M. R., MA *Oxon.* Asst. Prof.  
 Spencer, R. A., BA *McG.*, DPhil *Oxon.*, MA  
 Asst. Prof.  
 MacDonald, D. R. H., AM PhD *Harv.*,  
 BA Asst. Prof.  
 McNaught, K. W., MA PhD Asst. Prof.  
 Saywell, J. T., MA *Br.Col.*, PhD *Harv.*  
 Asst. Prof.  
 Nelson, H. I., MA *Corn.* Asst. Prof.  
 Piepenburg, W. W., MSc *Wis.*, PhD *Camb.*  
 Asst. Prof.  
 Zaslow, M., BA BEd *Alta.*, MA PhD Asst. Prof.  
 White, P. C. T., BA *Br.Col.*, MA *Camb.*,  
 PhD *Minn.* Asst. Prof.  
 Rose, E. E., MA *Camb.* Lectr.  
 Beame, E. M., BA *Corn.*, PhD *Ill.* Lectr.

Cook, G. R., BA *Manit.*, MA *Qu.* Lectr.  
 Grassby, R. B., BA *Oxon.* Lectr.  
 Lambi, I. N., PhD *Minn.*, MA Lectr.  
 Lloyd, T., MA DPhil *Oxon.* Lectr.  
 Moote, A. L., PhD *Minn.*, BA Lectr.  
 3 Instrs.

**History, Ancient, see Classics****Household Science**

McLaren, Barbara A., BSc *Alta.*, MS *Minn.*,  
 PhD *Wis.* Prof., Hd. of Dept.  
 Park, Edna W., MA Assoc. Prof.  
 Wardlaw, Janet M., MS *Tennessee*, BA  
 Asst. Prof.  
 Upton, Elizabeth E., MA Asst. Prof.  
 Fraser, Mrs. J. M., BA Lectr.  
 Gorham, N., MS *Corn.*, BHSc Lectr.  
 Irwin, Mrs. Kathleen E., MA *Col.*, BA Lectr.  
 Armstrong, Iva, MA *Br.Col.* Sp. Lectr.  
 Hellebust, Mrs. Dorothy M., MA Lectr.  
 Johnson, Verna, BA *Brigham Young*,  
 MS *Iowa* Lectr.  
 Leitch, Martha, BArch Lectr.  
 3 Assts., 1 Instr., 1 Demr.

**Hygiene, School of**

Rhodes, A. J., MD, FRCPED, FRSCan  
 (Microbiol.) Prof., Dir.  
 Brown, M. H., OBE, MD BSc(Med) DPH  
 (Pub. Health) Prof., Hd. of Dept.  
 Parker, R. C., BA DSc *Acad.*, PhD *Yale*  
 (Exper. Cytol.) Prof.  
 Wishart, F. O., MA MD DPH (Microbiol.) Prof.  
 McKinnon, N. E., MB  
 (Epidemiol. & Biometrics) Prof., Hd. of  
 Dept.  
 MacLean, D. L., OBE, MB BSc(Med)  
 DPH MD (Pub. Health) Prof.  
 Le Riche, W. H., BSc BCh MD *Rand*,  
 MPH *Harv.* Prof.  
 Fraser, Frieda H., BA MB (Microbiol.) Prof.  
 McHenry, E. W., MA PhD, FRSCan  
 (Nutrition) Prof.  
 Agnew, G. H., MD LLD *Sask.*, FACP  
 (Hosp. Admin.) Prof.  
 Fallis, A. M., BA PhD, FRSCan  
 (Parasitol.) Prof.  
 Cunningham, J. G., BA MB DPH  
 (Physiol. Hyg.) Prof., Hd. of Dept.  
 Mosley, W., MD CM *McG.*, DPH  
 (Pub. Health Admin.) Prof.  
 Brown, J. R., BSc MB BS PhD *Lond.* Prof.  
 Wilson, R. J., MA *Br.Col.*, MD DPH  
 (Pub. Health) Assoc. Prof.  
 Fisher, A. M., MA PhD Assoc. Prof.  
 MacLeod, D. R. E., BA MD BSc(Med) DPH  
 (Epidemiol. & Biometrics) Assoc. Prof.  
 Reid, D. B. W., MA *McG.*, MSc *Virginia*  
*Polytech. Inst.* Assoc. Prof.  
 MacPherson, L. W., PhD *Edin.*  
 (Microbiol.) Assoc. Prof.  
 Berry, A. E., MASc CE PhD  
 (Pub. Health Engin.) Assoc. Prof.

Stuart, Eugenie M., BSHA MHA *Northwestern*  
(Hosp. Admin.) Assoc. Prof.  
Siminovitch, L., PhD *McG.*  
(Microbiol.) Assoc. Prof.  
Goodwin, J. E., BASc PhD  
(Physiol. Hyg.) Assoc. Prof.  
Freeman, R. S., BS MA PhD *Minn.*  
(Parasitol.) Assoc. Prof.  
Piercey, W. D., BSc MD CM *Dal.*,  
DOMS *Lond.* (Hosp. Admin.) Assoc. Prof.  
Sutherland, R. B., MD CM *Qu.*, DPH  
DIIH Asst. Prof.  
McGann, H. R., BA *Br.Col.*, DIIA  
(Hosp. Admin.) Asst. Prof.  
McLaren, K. S., BA MEd *Sask.*, DIIA  
(Hosp. Admin.) Asst. Prof.  
McLean, D. M., BSc BS MD *Melb.*  
(Microbiol.) Asst. Prof.  
Farkas-Himsley, Mrs. H., MSc  
PhD *Jerusalem* (Microbiol.) Asst. Prof.  
Schwenger, C. W., MD DPH  
(Pub. Health) Asst. Prof.  
Beaton, G. H., MA PhD (Nutrition) Asst. Prof.  
Hastings, J. E. F., MD DPH Asst. Prof.  
Brown, W. G., MD DPH †Sp. Lectr.  
Currey, D. V., MD DPH †Sp. Lectr.  
Edge, G. A., BVSc DVPH †Sp. Lectr.  
Fischer, J. B., MSA Sp. Lectr.  
King, R. M., MD DPH Sp. Lectr.  
Liswood, S., BA C.C.N.Y., MBA *Chic.*,  
MPII *Harv.* Sp. Lectr.  
Puffer, D. S., BA MB DPH †Sp. Lectr.  
Sellers, A. H., BA MD DPH †Sp. Lectr.  
Taylor, M. G., MA PhD *Calif.* †Sp. Lectr.  
Elkerton, I. E., MD DPH †Sp. Lectr.  
Boyd, A. R. J., BA *Sask.*, MD CM *McG.*,  
DPH †Sp. Lectr.  
Bulmer, F. M. R., MB BSc(Med) †Sp. Lectr.  
Sharpe, J. E., OBE, MD *W.Ont.* Sp. Lectr.  
Sturgeon, L. W. C., MB DPH †Sp. Lectr.  
Moss, G. W. O., MD DPH Sp. Lectr.  
Martin, G. K., MD DPH Sp. Lectr.  
Mastromatteo, E., MD DPH DIII Sp. Lectr.  
Ferguson, R. B., BA DIIA †Sp. Lectr.  
Nixon, M. C., BSA †Sp. Lectr.  
Caverley, D. S., MASc †Sp. Lectr.  
Charron, K. C., MD CM †Sp. Lectr.  
Siebenmann, C. O., ChemEng *Zür.*,  
DIng *T.H.Karlsruhe* Sp. Lectr.  
Veen, Margaret J., MA †Sp. Lectr.  
Clarke, W. T. W., MD, FRCPCan †Sp. Lectr.  
Webb, Jean F., BSc *Acad.*, MD CM *McG.*,  
DPH Sp. Lectr.  
4 Assoc., 2 Fellows, 3 Demrs., 3 Res.  
Fellows, 2 Res. Assts., 2 Res. Assocs.

### Italian, Spanish and Portuguese

Stagg, G. L., MBE, MA *Camb.*, AM *Harv.*  
Prof., Hd. of Dept.  
Cano, J., BA *San Ildefonso (Toledo)*,  
AM PhD *Col.* Prof.  
Parker, J. H., MA PhD Prof.  
Chandler, S. B., BA PhD *Lond.* Assoc. Prof.  
Corrigan, Beatrice M., MA PhD Assoc. Prof.

Marin, D., LLB *Madrid*, BA *Lond.*, MA  
PhD Assoc. Prof.  
Tayler, N. H., MA PhD Asst. Prof.  
Molinaro, J. A., MA PhD Asst. Prof.  
Gordon, A. M. Asst. Prof.  
Levy, K. L., MA PhD Asst. Prof.  
Dawson, T. L. C., MA PhD Asst. Prof.  
Barclay, T. B., MA PhD Asst. Prof.  
McCreedy, W. T., MA *Chic.* Asst. Prof.  
Ukas, M. W., MA PhD Lectr.  
7 Instrs.

### Law

Wright, C. A., QC, BA LLB *Br.Col.* &  
*W.Ont.*, SJD *Harv.* Prof.  
Abel, A. S., BA LLB SJD *Harv.*,  
JD *Harv.* & *Iowa* Prof.  
Laskin, B., QC, LLB *Harv.*, MA LLB Prof.  
La Brie, F. E., BA LLB *Alta.*, LLM DJur Prof.  
Milner, J. B., LLB *Dal.*, LLB *Harv.* Prof.  
Willis, J., BA *Oxon.* Prof.  
McWhinney, E., LLM SJD *Yale* Assoc. Prof.  
Weston, A. B., LLB *W.Aust.*, BCL *Oxon.*  
Assoc. Prof.  
Dunlop, J. B. Asst. Prof.  
Green, B. Asst. Prof.  
MacGuigan, M. R. Asst. Prof.  
Grossberg, B., QC Sp. Lectr.  
Macauley, R. W., QC, BA Sp. Lectr.  
McLean, W. E., QC, BA LLB *Manit.* Sp. Lectr.  
Schiff, S. A., BA LLB Sp. Lectr.  
Van Every, A., QC, BA Sp. Lectr.  
3 Assocs.

**Library School**, see Ontario Coll. of  
Education (p. 327)

### Mathematics

De Lury, D. B., MA PhD  
Prof., Chairman of Dept.  
Webber, W. J., BA *Camb.* Prof.  
Atkinson, F. V. Prof.  
Coxeter, H. S. M., BA PhD *Camb.*,  
LLD *Alta.*, FRS, FRSCan Prof.  
Scherk, P., PhD *Gött.*, FRSCan Prof.  
Sheppard, N. E., MA, FIA Prof.  
Robinson, G. de B., MBE, PhD *Camb.*, BA,  
FRSCan Prof.  
Fraser, D. A. S., AM PhD *Prin.*, MA Prof.  
Krieger-Dunaj, C. Cecilia, MA PhD Assoc. Prof.  
Duff, G. F. D., PhD *Prin.*, MA Assoc. Prof.  
Crosby, W. J. R., MA PhD Assoc. Prof.  
Tutte, W. T., MA MSc PhD *Camb.*,  
FRSCan Assoc. Prof.  
Rooney, P. G., BSc *Alta.*, PhD *Cal.* Assoc. Prof.  
Baillie, D. C., MA Assoc. Prof.  
Chalk, J. H. H. Assoc. Prof.  
Pillow, A. F., BA *Melb.*, PhD *Camb.* Assoc. Prof.  
Watson, G. S., BA *Melb.*, PhD *N.Carolina*  
Assoc. Prof.  
Chung, J. H., MA PhD Asst. Prof.  
Kahan, W. Asst. Prof.  
Brainerd, B., SB *M.I.T.*, MS PhD *Mich.* Asst. Prof.  
Steketee, J. A., WI *T.H.Delft*, PhD Asst. Prof.

Wormleighton, R., PhD *Prin.*, MA Asst. Prof.  
 Sen, D. K., MSc *Patna*, DSc *Paris* Lectr.  
 Murphy, R. N., BA *Melb.*, DipEd *N.E.* Lectr.  
 Naylor, D., PhD *Lond.* Lectr.  
 Ross, R. A., MA Lectr.  
 Sherck, F. A., MSc *McM.*, BA PhD Lectr.  
 Scriba, C. J., DrRerNat *Giessen* Lectr.  
 Shale, D., SM *Chic.* Lectr.  
 Vanstone, J. R., PhD *Natal*, MA Lectr.  
 Reid, D. B. W., MA *McG.*, MSc *Virginia* Sp. Lectr.  
*Polytech. Inst.*  
 10 Teaching Fellows, 3 Instrs.

**Mediæval Studies**, see Philos.

**Medicine and Surgery**, see below

**Metallurgy**, see Applied Science and Engineering, below

**Mineralogy**, see Geol. Scis.

### Music

Walter, A. M., JurUtrDr *Prague* Dir. of Fac.  
 Neel, L. B., CBE, BA *Camb.*  
 Dean, Royal Conserv. of Music of  
 Toronto  
 Rosevear, R. A., AB *Corn.*, MMus *Roch.*  
 (School Music) Assoc. Prof.  
 Olmick, H. J., BS *N.Y.*, MA *Col.* Assoc. Prof.  
 Johnston, A. R., BMus *Northwestern*, MMus  
 PhD *Roch.* (School Music) Assoc. Prof.  
 Weinzwieg, J. J., MMus *Roch.*, MusBac  
 Assoc. Prof.  
 Schaeffer, M., MusB AB *Oberlin*,  
 PhD *Western Reserve* Assoc. Prof.  
 Morawetz, O., MusDoc Asst. Prof.  
 Ridout, G. Lectr.  
 Kennis, T. Lectr.  
 Beckwith, J., MusBac Sp. Lectr.  
 Peaker, C., MusDoc, FRCO Sp. Lectr.

### Near Eastern Studies

Winnett, F. V., MA PhD, FRSCan  
 Prof., Hd. of Dept (C)  
 McCullough, W. S., MA BD PhD Prof. (C)  
 Williams, Rev. R. J., PhD *Chic.*, MA BD  
 Prof. (C)  
 Wickens, G. M., MA *Camb.* Prof. (C)  
 Tushingham, A. D., BD PhD *Chic.*, BA  
 Assoc. Prof. (C)  
 Wevers, J. W., BA *Calvin Coll.*, ThB *Calvin*  
*Theol. Sem.*, ThD *Prin.* Assoc. Prof. (C)  
 Marmura, M. E., BA *Wis.*, MA PhD *Mich.*  
 Lectr. (C)  
 Sweet, R. F. G., MA *Manc.*, PhD *Chic.*  
 Lectr. (C)  
 Staples, W. E., MA PhD Prof., Hd. of Dept. (V)  
 MacPherson, Rev. J., MA *McG.*, BD *Montr.*  
 Assoc. Prof. (V)  
 Holland, J. D., MA Lectr. (V)  
 Newby, Rev. Canon M. T., MA  
 Prof., Hd. of Dept. (T)  
 1 Teaching Fellow (C)

### Nursing, School of

Fidler, Nettie D., BA Prof., Dir.  
 Millman, Mary B., BA Prof.  
 Uprichard, Muriel, BA *Qu.*, MA *Smith*,  
 PhD *Lond.* Assoc. Prof.  
 Wilson, M. Jean, BA *Sask.*, BPaed Asst. Prof.  
 Bennett, Hilda A., MA *Chic.*, BA Asst. Prof.  
 Carpenter, Helen M., BS *Col.*,  
 MPH *Johns H.* Asst. Prof.  
 Watson, Jeannette E., BScN *W.Ont.*,  
 MScN *Detroit* Asst. Prof.  
 Allemang, Margaret M., BScN BA  
 MN *Wash.* Asst. Prof.  
 King, Kathleen, MSN *Yale*, BA BScN  
 Asst. Prof.  
 MacLachlan, Margaret M., BScN BA Lectr.  
 MacPhail, Janetta, BS *Col.* Lectr.  
 Brehaut, Mrs. Carol, BScN Lectr.  
 Farnden, Ruth I., BScN Lectr.  
 Key, J. A., MB ChB *Edin.*, FRCS Lectr.  
 Miller, Beverley, BScN Lectr.  
 Robertson, Elizabeth, BA MD PhD Lectr.  
 Turner, Mary N., BScN Lectr.

**Oriental Languages**, see Near Eastern Studies

### Pharmacy

Hughes, F. N., BSinPharm LLD *Purdue*,  
 PhmB MA Prof.  
 Walker, G. C., BSc *Alta.*, MS PhD *Purdue* Prof.  
 Fuller, H. J., BA *W.Ont.*, MA *Yale*, PhmB Prof.  
 Baxter, R. M., BSP *Sask.*, MS PhD *Flor.*,  
 PhmB Assoc. Prof.  
 Paterson, G. R., BSP MSc *Sask.*, PhD *Wis.*,  
 PhmB Assoc. Prof.  
 Kennedy, D. R., PhD *Flor.*, BScPhm  
 PhmB Asst. Prof.  
 Nairn, J. C., PhD *Buffalo*, BScPhm Asst. Prof.  
 Teare, F. W., MSc *Alta.*, PhD *N.Carolina*  
 Asst. Prof.  
 Sim, S. K., BSc MS PhD *Wash.* Asst. Prof.  
 Stauffer, Mrs. Isobel E., BSc *Alta.*,  
 MSc *Western Reserve* Asst. Prof.  
 Walker, I. G., BA *Sask.*, MA PhD Sp. Lectr.  
 16 Demrs., 1 Res. Asst.

### Philosophy

Anderson, F. H., BA LLD *Dal.*, MA PhD,  
 FRSCan Prof., Hd. of Dept. (C)  
 Goudge, T. A., MA *Dal.*, PhD, FRSCan  
 Prof. (C)  
 Long, W. M. D., MA PhD Prof. (C)  
 McRae, R. F., PhD *Johns H.*, MA Prof. (C)  
 McCurdy, W. J., BA *Dal.*, AM  
 PhD *Harv.* Assoc. Prof. (C)  
 Fackenheim, E. L., PhD Assoc. Prof. (C)  
 Savan, D., AM *Harv.* Assoc. Prof. (C)  
 Dryer, D. P., AM *Harv.* Assoc. Prof. (C)  
 Sparshott, F. E., MA *Oxon.* Asst. Prof. (C)  
 Butler, R. J. Asst. Prof. (C)  
 Dray, W. H., MA DPhil *Oxon.*, BA  
 Asst. Prof. (C)  
 Gallop, D., MA *Oxon.* Asst. Prof. (C)

- Webb, C. W., MA *W.Ont.*, PhD Asst. Prof. (C)  
 Wheatley, J. M. O., MA *New Br.*, PhD  
 Asst. Prof. (C)  
 Gauthier, D. D., AM *Harv.*, BPhil *Oxon.*,  
 BA Lectr. (C)  
 Hunter, J. F. M., PhD *Edin.*, MA Lectr. (C)  
 Payzant, G. B., BA *Dal.*, MA Lectr. (C)  
 Irving, J. A., MA *Tor. & Camb.*  
 Prof., Chairman of Dept. (V)  
 Macpherson, Jessie, MA PhD Assoc. Prof. (V)  
 Edison, G., AM *Col.*, PhD  
 Prof., Hd. of Dept. (T)  
 Fairweather, Rev. E. R., ThD *U.T.S.(N.Y.)*,  
 MA BD Assoc. Prof. (T)  
 Owen, Rev. D. R. G., MA *Oxon.*,  
 BA PhD Lectr. (T)  
 Kelly, Rev. J. M., MA PhD  
 Prof., Pres., Inst. of Mediæv. Studies (M)  
 Gilson, E., DèS *L.Paris*, LLD *Aberd.*, *Harv.*,  
*St.And. & Glas.*, PhD *Montr.*, *Rome*  
 & *Milan*, DLitt *Oxon.*, LittD *Col.* Prof. (M)  
 Dore, Rev. J. W., PhD *Ott.*, BPhil MA Prof. (M)  
 Pegis, A. C., MA *Marquette*, PhD, FRSCan  
 Prof. (M)  
 Phelan, Rev. G. B., MA *St.F.X.*, SJB  
*C.U.A.*, PhD *Lowan*, LLD *Dub.*,  
*St.M. & Tor.*, FRSCan Prof. (M)  
 Eschmann, Rev. I. T., PhD STD *Rome* Prof. (M)  
 Lynch, L. E. M., MA LMS PhD Prof. (M)  
 Synan, Rev. E. A., BA *Seton Hall*, STL  
*C.U.A.*, MSL *P.I.M.S.*, MA PhD  
 Assoc. Prof. (M)  
 Owens, Rev. J., MSD *Pontif.Inst.*, *Tor.*  
 Assoc. Prof. (M)  
 Maurer, Rev. A. A. A., MA PhD Assoc. Prof. (M)  
 MacDonald, Rev. R., MA PhD Asst. Prof. (M)  
 Dewart, I. S., MA PhD Asst. Prof. (M)  
 Lang, T. J. F., MA Asst. Prof. (M)  
 2 Instrs. (T), 2 (M), 2 (C)

### Physical and Health Education, School of

- Ebbs, J. H., MD *Tor. & Birm.*, FRCPCan  
 Prof., Dir.  
 Stevens, W. A., BS *Syr.*  
 Assoc. Prof., Dir. of Athletics & Phys.  
 Educn. (Men)  
 Griffiths, M. G., MPE *Springfield*, MA *Col.*  
 Assoc. Prof., Asst. Dir.  
 Wilson, R. J., MA *Br.Col.*, MD DPH  
 Assoc. Prof.  
 Slack, Zerada, BA *McG.*  
 Assoc. Prof., Dir. of Phys. Educn. (Women)  
 Forster, Jean M., BA BED  
 Assoc. Prof., Asst. Dir., Athletics &  
 Phys. Educn. (Women)  
 Jackson, Dorothy N. R., BSc MA *N.Y.*  
 Assoc. Prof., Asst. Dir., Athletics &  
 Phys. Educn. (Women)  
 McCutcheon, J. E. Asst. Prof., Asst. Dir.  
 White, A. D., BA MED Asst. Prof.  
 Kennedy, J. R., BPHE Lectr.  
 McManus, J. S., BPHE Lectr.  
 Wippen, K. A. W., BPHE BSW BEd MA Lectr.

- McCatty, C. A. M., BA Lectr.  
 8 Instrs.

### Physics

- Watson, W. H., MA PhD *Edin. & Camb.*,  
 FRSCan Prof., Hd. of Dept.  
 Barnes, C., MSc *Leeds*, PhD Prof.  
 Wilson, J. T., OBE, BA *Tor.*, MA ScD  
*Camb.*, PhD *Prin.*, LLD *Car.*, Hon.  
 DSc *W.Ont.*, FRSCan (Geophys.) Prof.  
 Stryland, J. C., PhD *Amst.* Prof.  
 Welsh, H. L., MA PhD, FRSCan Prof.  
 Johns, H. E., BA *McM.*, Hon. LLD *Sask.*,  
 MA PhD, FRSCan Prof.  
 Van Kranendonk, J., PhD *Amst.* Prof.  
 Ainslie, D. S., MA PhD Assoc. Prof.  
 Anderson, J. M., MA PhD Assoc. Prof.  
 McKay, R. W., MA PhD Assoc. Prof.  
 Gotlieb, C. C., MA PhD Assoc. Prof.  
 Scott, G. D., MA PhD Assoc. Prof.  
 Hume, J. N. P., MA PhD Assoc. Prof.  
 Allin, Elizabeth J., MA PhD Assoc. Prof.  
 Davison, B., PhD *Birm.* Assoc. Prof.  
 Ivey, D. G., MA *Br.Col.*,  
 PhD *Notre Dame* Assoc. Prof.  
 McNeill, K. G., MA DPhil *Oxon.* Assoc. Prof.  
 Crossley, Kathleen M., BA Asst. Prof.  
 Farquhar, R. M., PhD Asst. Prof.  
 Richmond, R., MA PhD Asst. Prof.  
 Graham, G. M., MSc *Dal.*, PhD *Camb.*  
 Asst. Prof.  
 Gush, H. P., BE BA MSc *Sask.*, PhD Asst. Prof.  
 Steenberg, N. R. F., MC, MSc *Qu.*,  
 DPhil *Oxon.* Asst. Prof.  
 Grant, F., BASc MS *Ill.*, PhD Asst. Prof.  
 Prentice, J. D., MSc *McG.*, PhD *Glas.*  
 Asst. Prof.  
 Rochester, M. G., PhD *Utah*, MA Asst. Prof.  
 Worsley, Miss B. H., SM *M.I.T.*,  
 PhD *Camb.*, BA Asst. Prof.  
 Broderson, S., MSc *Copenhagen* Lectr.  
 West, G. F., BASc MA Lectr.  
 22 Demrs., 3 Instrs., 28 Assts., 1 Reader,  
 1 Class Asst.

### Political Economy

- Bladen, V. W., MA *Oxon.*, FRSCan Prof.  
 Ashley, C. A., BCom *Birm.*, FCA  
 Prof., Chairman of Dept.  
 Brady, A., BA *Tor. & Oxon.*, MA PhD,  
 FRSCan Prof.  
 Clark, S. D., MA *Sask. & McG.*, PhD,  
 FRSCan Prof.  
 MacGregor, D. C., BA, FRSCan Prof.  
 Keirstead, B. S., BA *New Br. & Oxon.*,  
 LLD *New Br.*, FRSCan Prof.  
 Keyfitz, N., BSc *McG.*, PhD *Chic.* Prof.  
 Currie, A. W., BA BCom *Qu.*,  
 DComSc *Harv.* Prof.  
 Easterbrook, W. T., BA *Manit.*, MA *Camb.*  
 & *Tor.*, PhD, FRSCan Prof.  
 Hall, O., BA *Qu.*, MA *McG.*, PhD *Chic.* Prof.  
 Helleiner, K. F. M., PhD *Vienna*, FRSCan Prof.

Hood, W. C., BA <i>Mt.All.</i> , MA PhD	Prof.	Northway, Mary L., MA PhD	Asst. Prof.
Macpherson, C. B., MSc(Econ) DSc <i>Lond.</i> , BA, FRSCan	Prof.	Thornton, G. B., MASC PhD	Asst. Prof.
Skilling, H. G., MA <i>Oxon.</i> , PhD <i>Lond.</i> , BA	Prof.	Tulving, E., MA PhD <i>Harv.</i>	Asst. Prof.
Hennessey, S. G., BCom, CA	Assoc. Prof.	Walters, R. H., MA <i>Brist.</i> , BPhil <i>Oxon.</i> , PhD <i>St.And.</i>	Asst. Prof.
Morgan, L. T., BA <i>Br.Col.</i> , MA PhD <i>Calif.</i>	Assoc. Prof.	Gibbins, R. J., MA <i>Qu.</i>	Lectr.
Dales, J. H., PhD <i>Harv.</i> , MA	Assoc. Prof.	Bishop, H. E., BSc <i>McG.</i>	Lectr.
Beard, F. N., BCom	Assoc. Prof.	McKenzie, Dorothy I., MA	Lectr.
Fox, P. W., PhD <i>Lond.</i> , MA	Assoc. Prof.	Millichamp, Dorothy A., MA	Sp. Lectr.
Triantis, S., BA LLB <i>Athens</i> , MA PhD	Assoc. Prof.	Neiger, S., MD PhD <i>Innsbruck</i>	Sp. Lectr.
		4 Teaching Fellows, 16 Assts., 3 Res. Assocs.	

**Religious Knowledge**, see Federated  
Colls., below

**Russian**, see Slavic Studies

### Slavic Studies

Luckyj, G., MA <i>Birm.</i> , PhD <i>Col.</i>	Prof., Chairman of Dept.
Strakhovsky, L. I., DHistSc <i>Louvain</i>	Assoc. Prof.
Bedford, C. H., PhD <i>Lond.</i> , MA	Asst. Prof.
Du Feu, Mrs. V. M.	Asst. Prof.
Jenkins, Mrs. M., BA <i>Lond.</i> , MA	Asst. Prof.
Ijewliw, D., MA <i>Montr.</i>	Lectr.
Kay, M. L., MA <i>Oxon.</i> & <i>Tor.</i>	Lectr.
Eddison, R. F. R., BA <i>Camb.</i>	Lectr.
2 Teaching Fellows, 2 Assts.	

**Social Science**, see Pol. Econ. and  
Social Work

### Social Work, School of

Hendry, C. E., BA <i>McM.</i> , MA <i>Col.</i> , MH <i>Sprungfeld</i>	Prof., Dir.
Jaffary, S. K., BSc MA <i>Alta.</i> , PhD <i>Chic.</i>	Prof.
Morgan, J. S., MA <i>Oxon.</i> , DipEd <i>Durh.</i>	Prof.
Govan, Elizabeth, BA <i>Oxon.</i> , PhD <i>Chic.</i> , MA	Prof.
Rose, A., MA PhD <i>Ill.</i> , BA	Prof.
Spencer, J. C., MA <i>Oxon.</i> , PhD <i>Lond.</i>	

Medhurst, R. R., AB MSW <i>S.Calif.</i>	Assoc. Prof.
Rhinewine, Shulameth, MSW <i>Penn.</i> , BA	Assoc. Prof.
Godfrey, E. Ray, MA <i>Chic.</i> , BA	Assoc. Prof.
Byles, J. S., BA MSW <i>W.Ont.</i>	Asst. Prof.
Perretz, E. A., BA N.Y., MSW <i>Denver</i>	Asst. Prof.
Farina, A. J., BA MSW <i>Br.Col.</i>	Asst. Prof.
Seeley, Mrs. M., BA <i>Manit.</i> , MA <i>Chic.</i>	Asst. Prof.

Horwitz, J. J., BSS N.Y., MS <i>Col.</i>	Asst. Prof.
Kirkpatrick, Mrs. Margaret N., BA <i>Qu.</i> , MSW	Asst. Prof.

Dunlop, Jean L., MSW	Asst. Prof.
Posen, Minda, BA MSW	Asst. Prof.
Gripton, J., BA MSW	Lectr.
Marshall, Helen, BA MSW	Lectr.
Warriner, Mrs. Florence	Lectr.
Bellamy, D., BA <i>W.Ont.</i> , MSW	Sp. Lectr.
Boothroyd, W. E., BA <i>Mt.All.</i> , MD CM <i>Dal.</i>	Sp. Lectr.
Cornish-Bowden, J., MEd <i>Tufts</i>	Sp. Lectr.
Lappin, B., BA <i>McM.</i>	Sp. Lectr.
1 Instr.	

Giffen, P. J., MA	Asst. Prof.
Pratt, R. C.	Asst. Prof.
Sands, J. E., BCom	Asst. Prof.
Wallace, Mary E., BA <i>Oxon.</i> & <i>Tor.</i> , PhD <i>Col.</i>	Asst. Prof.
Burnet, Jean R., PhD <i>Chic.</i> , MA	Asst. Prof.
Eastman, H. C. M., AM PhD <i>Chic.</i> , BA	Asst. Prof.
Eayrs, J. G., AM PhD <i>Col.</i> , BA	Asst. Prof.
Green, H. A. J., MA <i>Oxon.</i> , PhD <i>M.I.T.</i>	Asst. Prof.
Grasham, W. E., BASc MA	Asst. Prof.
Neufeld, E. P., BA <i>Sask.</i> , PhD <i>Lond.</i>	Asst. Prof.
Hartle, D. G., BA <i>Car.</i> , MA PhD <i>Duke</i>	Asst. Prof.
Wolfe, J. N., MA <i>McG.</i> , BLitt <i>Oxon.</i>	Asst. Prof.
Zakuta, L., MA <i>McG.</i>	Asst. Prof.
Stykolt, S., AM PhD <i>Harv.</i> , BA	Asst. Prof.
McDonald, J. I., MA <i>W.Ont.</i>	Lectr.
Bixley, B. D., BSc(Econ) <i>Lond.</i>	Lectr.
Macdonald, H. I., BPhil MA <i>Oxon.</i> , BCom	Lectr.
McLeod, J., MA <i>Sask.</i>	Lectr.
Roberts, J. M., BA BPhil <i>Oxon.</i>	Lectr.
Russell, P., BA <i>Oxon.</i> & <i>Tor.</i>	Lectr.
Slasor, G., BA <i>Car.</i>	Lectr.
Watkins, M. H., BCom	Lectr.
Watson, A. M., MA <i>Oxon.</i> & <i>Tor.</i> , BCom	Lectr.
3 Instrs., 10 Assts., 4 Res. Assocs.	

**Portuguese**, see Italian

### Psychology

Blatz, W. E., PhD <i>Chic.</i> , MA MB	Prof.
Bernhardt, K. S., PhD <i>Chic.</i> , MA	Prof., Asst. Dir., Inst. of Child Study
Line, W., OBE, BSc <i>Mt.All.</i> , MA MEd <i>Alta.</i> , PhD <i>Lond.</i>	Prof.
Myers, C. R., MAPHD	Prof., Chairman of Dept.
Williams, D. C., BA <i>Manit.</i> , MA PhD	Prof.
Ketchum, J. D., MA	Prof.
Amsell, A.	Assoc. Prof.
Mandler, G.	Assoc. Prof.
Shephard, A. H., MA PhD <i>Iowa</i>	Assoc. Prof.
Steer, H. O., MA PhD	Assoc. Prof.
Callagan, J. E., BA <i>Manc.</i> , PhD <i>Lond.</i>	Asst. Prof.
Quarrington, B. J., MA <i>Qu.</i> , BA PhD	Asst. Prof.
Grapko, M. F., BA <i>Manit.</i> , PhD	Asst. Prof.
Macdonald, G. E., BEd <i>Sask.</i> , MA PhD	Asst. Prof.
Joyner, R. C., DFC, MA PhD	Asst. Prof.
Laurence, Mary W., MA PhD	Asst. Prof.

**Spanish, see Italian**

### Zoology

- Fisher, K. C. BA *Acad.*, MA PhD,  
FRSCan Prof., Chairman of Dept.  
Craigie, E. H., BA PhD, FRSCan  
(Comp. Anat. & Neurol.) Prof.  
Fry, F. E. J., MBE, MA PhD, FRSCan  
(Limnol.) Prof.  
Walker, Mrs. Norma Ford, BA PhD  
(Human Biol.) Prof.  
Langford, R. R., BSc *Sask.*, PhD Prof.  
Ide, F. P., MA PhD Assoc. Prof.  
Atwood, C. E., BSA *McG.*, MSA PhD  
(Forest Entomol.) Assoc. Prof.  
Butler, L., MSA PhD (Genetics) Assoc. Prof.  
Engelbert, Miss Vibeke E., MSA PhD  
(Histol.) Assoc. Prof.  
McCallion, D. J., MA *McM.*,  
PhD *Brown* Assoc. Prof.  
Neal, G. M., MA *Br.Col.* Asst. Prof.  
Sullivan, Charlotte M., MSc *Dal.*, PhD  
Asst. Prof.  
Falls, J. B., BA PhD Asst. Prof.  
Beckel, W. E., BA *Qu.*, MSc *Iowa*,  
PhD *Corn.* Asst. Prof.  
Kinne, O. M., PhD *Kiel* Asst. Prof.  
Friend, W. G., BSc *McG.*, PhD *Corn.*  
Asst. Prof.  
Liversage, R. A. Asst. Prof.  
Rigler, F., MA PhD Asst. Prof.  
Clark, G. M., BSc *SirG.Wms.*, MSc *McG.*,  
PhD *Atlanta* Asst. Prof.  
Parsons, T. S. Asst. Prof.  
Tallan, I., BSc *Rutgers*, PhD *Indiana* Asst. Prof.  
Churcher, C. S., MSc *Natal*, PhD Asst. Prof.  
Fowle, C. D., MA *Br.Col.*, PhD Sp. Lectr.  
Hatton, Mrs. Marjorie, BA PhD Sp. Lectr.  
McGregor, Alice M. Sp. Lectr.  
McCombie, A. M., MA PhD Sp. Lectr.  
Simpson, Nancy E., MA *Col.*, BPIIE  
PhD Sp. Lectr.  
Urquhart, F. A., MA PhD Sp. Lectr.  
19 Demrs., 1 Instr., 1 Asst., 1 Res. Asst.

### APPLIED SCIENCE AND ENGINEERING

- McLaughlin, R. R., MASC MA PhD Dean  
Wilson, W. S., ED, BASC Asst. Dean, Sec.

### Aerophysics

- Patterson, G. N., BSc LLD *Alta.*, MA PhD,  
FRAeS, FRSCan  
(Aerodynam.) Prof., Hd. of Dept.  
Etkin, B., MASC Prof.  
Ribner, H. S., MS PhD *Wash.* Prof.  
Glass, I. I., MASC PhD Assoc. Prof.  
DeLeeuw, J. H., MS *Georgia*, PhD Asst. Prof.  
Korbacker, G. K., DipIng *Berl.* Asst. Prof.  
Poppleton, E. D., MScEng Asst. Prof.  
Hiscocks, R. D., MBE, BASC Sp. Lectr.  
6 Demrs., 2 Res. Assocs.

### Chemical Engineering

- Breckenridge, J. G., PhD *Camb.*, BASC  
Prof., Hd. of Dept.  
McLaughlin, R. R., MASC MA PhD Prof.  
Rapson, W. H., MASC PhD Prof.  
Graydon, W. F., PhD *Minn.*, MASC Prof.  
MacElhinney, W. G., MASC Assoc. Prof.  
Johnson, A. I., MChE *Brooklyn*,  
BASC PhD, FCIC Assoc. Prof.  
Andrews, D. G., MA *Camb.* Assoc. Prof.  
Burgess, W. H., BChE MFS  
PhD *Corn.* Assoc. Prof.  
Jervis, R. E., MA PhD Asst. Prof.  
Missen, R. W., MSc *Qu.*, PhD *Camb.* Asst. Prof.  
Spinner, I. H., MASC PhD Asst. Prof.  
Sandler, S., MASC Asst. Prof.  
Trass, O., BSE *Prin.*, ScD *M.I.T.* Asst. Prof.  
Binkiewicz, J., DipIng *Lwow* Lectr.  
May, Z., DipIngChem *Warsaw* Lectr.  
Marton, A., DipChemEng PhD *Bud.*, MA Lectr.  
De Laporte, A. V., BASC, FCIC Sp. Lectr.  
Tucker, Mrs. Helen, AB *Mich.* Sp. Lectr.  
Voegel, F. A., MASC Sp. Lectr.  
2 Instrs., 25 Demrs.

### Civil Engineering

- Morrison, C. F., BE *Sask.*, MSc *McG.*  
Prof., Hd. of Dept.  
Sagar, W. L., BASC CE Prof.  
Marshall, O. J., BASC CE Prof.  
Huggins, M. W., MASC Prof.  
Helwig, C. E., MASC Assoc. Prof.  
Macklin, H. L., BASC Assoc. Prof.  
Collins, R. A., MS PhD *Ill.*, BA Asst. Prof.  
Hershfield, C., BSc *Manit.*, MASC Asst. Prof.  
Davidson, A. C., BSc *Manit.*, MASC Asst. Prof.  
Davis, M. M., BSc *Qu.*, MSc *Purdue* Asst. Prof.  
DeLory, F. A., BEng *McG.*, PhD *Lond.*,  
MASC Asst. Prof.  
Dillane, C. W., BASC Asst. Prof.  
Frizzle, H. R., BSc *N.S.T.C.* Asst. Prof.  
Walker, A. W., MA Asst. Prof.  
Wrenshall, C. A., BE *Sask.* Asst. Prof.  
Schwaighofer, J., DiplIng *Graz*, MS  
PhD *Penn.* Asst. Prof.  
Haynes, B. J., BASC Asst. Prof.  
Barber, J. D., MASC Lectr.  
Emerson, L. P., BASC Lectr.  
Gunn, R. G., BASC Lectr.  
Kennedy, D. J. L., MS *Ill.*, BASC Lectr.  
Adams, A. H. S., MA BSc *Glas.*, CE Lectr.  
Meipoom, K., MASC Lectr.  
Sisson, W. H., BASC Lectr.  
Uzumeri, S. M., MASC Lectr.  
Bernhart, A. P., BASC DSc *Graz* Sp. Lectr.  
Bird, S. J. G., BASC Sp. Lectr.  
Dunbar, W. B., BASC Sp. Lectr.  
Wardell, A., BASC Sp. Lectr.  
21 Instrs., 1 Demr.

### Electrical Engineering

- Tracy, G. F., SM *M.I.T.*, BASC  
Prof., Hd. of Dept.  
Smith, V. G., BASC Prof.

Reid, J. E., BASc	Prof.	Williams, W. M., BSc <i>Brist.</i> , MSc	Sp. Lectr.
Sinclair, G., PhD <i>Ohio State</i>	Prof.	10 Demrs.	
Ham, J. M., SM ScD <i>M.I.T.</i> , BASc	Prof.		
Slemon, G. R., PhD <i>Lond.</i> , MASc	Assoc. Prof.	<b>Mining Engineering</b>	
Kravetz, A. J., BSc <i>Alta.</i> , MASc	Asst. Prof.	Rice, H. R., BSc <i>Qu.</i>	Prof., Hd. of Dept.
Courtice, H. A., BASc	Asst. Prof.	Wolfe, S. E., MASc	Assoc. Prof.
Biringer, P. P., DipEng <i>Bud.</i> , MSc <i>Stockholm</i> , PhD	Asst. Prof.	Hewer, W. A. M., BASc	Assoc. Prof.
Straughen, A. R., BSc <i>Lond.</i> , MASc	Asst. Prof.	4 Instrs.	
Yen, J. L., BSc <i>Chiao Tung</i> , MASc PhD			

Burke, P. E., BE <i>N.S.T.C.</i> , MASc	Asst. Prof.	<b>Physics, Applied</b>	
Barber, J. D., BASc	Lectr.	Jackson, K. B., BASc	Prof., Hd. of Dept.
Berry, F. G., MASc	Lectr.	Henderson, V. L., AM <i>Mich.</i> , BASc	Assoc. Prof.
Dalton, I. R., MS <i>Northwestern</i> , BASc	Lectr.	Friend, F. B., BA <i>McM.</i> , MA <i>Roch</i>	Asst. Prof.
Dnurtrevsky, S., BASc	Lectr.	Currie, Miss Marion C., BASc	Lectr.
Janischewskyj, W., MASc	Lectr.	Steinberg, L. M., BA	Lectr.
McCausland, I., MSc <i>Belf.</i> , PhD	Lectr.	Vlcek, J., BScF <i>New Br.</i> , MASc	Lectr.
3 Instrs., 16 Demrs.		2 Instrs., 1 Demr.	

**Engineering Business**

Miller, W. O. C., BASc	Sp. Lectr.
------------------------	------------

**Mechanical Engineering**

Lord, G. R., SM <i>M.I.T.</i> , BASc PhD	Prof., Hd. of Dept.		
Wren, R. C., BASc	Prof.		
Smith, I. W., MASc	Prof.		
Baues, W. D., BSc <i>Alta.</i> , MS PhD <i>Iowa</i>	Assoc. Prof.		
Jones, L. E., BSc CE <i>Manit.</i> , MASc PhD	Assoc. Prof.		
Allan, A. B., MASc	Asst. Prof.		
Carpendale, B. M. M., MA <i>Camb.</i>	Asst. Prof.		
Ewens, F. G., MASc	Asst. Prof.		
Hughes, P. B., BSc <i>McG.</i>	Asst. Prof.		
Proctor, C. L., BS <i>Oklahoma Agric.</i> , MS <i>Purdue</i>	Asst. Prof.		
Rimrott, F. P. J., DipIng <i>T.H.Karlsruhe</i> , PhD <i>Penn.</i> , MASc	Asst. Prof.		
Wallace, W. A., BASc	Asst. Prof.		
Waines, R. T., BASc	Asst. Prof.		
Hooper, F. C., DIC, BASc	Asst. Prof.		
Anderson, R. W. P., MASc	Lectr.		
Clough, D. J., BASc MCom	Lectr.		
Godfrey, G. E., MASc	Lectr.		
Leutheusser, H. J., DipEng <i>T.H.Karlsruhe</i> , MASc	Lectr.		
Miller, C. H., MASc	Lectr.		
Moroz, W. J., MASc	Lectr.		
Van de Vegte, J., MASc	Lectr.		
McIntosh, W. G., BASc	Sp. Lectr.		
Bruce, J. P., MA	Sp. Lectr.		
Chung, Y. H., BSc <i>Soochow</i> , MASc	Sp. Lectr.		
Strom, R., BASc	Sp. Lectr.		
3 Instrs., 17 Demrs.			

**Metallurgical Engineering**

Pidgeon, L. M., MBE, BA <i>Manit.</i> , BSc <i>Oxon.</i> , PhD <i>McG.</i> , FRSCan	Prof., Hd. of Dept.
Craig, G. B., MASc PhD	Assoc. Prof.
Winegard, W. C., MASc PhD	Assoc. Prof.
Ross, H. U., BEng MSc <i>McG.</i>	Asst. Prof.

**DENTISTRY**

Ellis, R. G., DDS MScD, FDSRCS	De
--------------------------------	----

**Crown and Bridge Prosthesis**

Prof.

**Dental Anatomy**

Ham, A. W., MB, FRSCan	Prof.
Paynter, K. J., DDS PhD <i>Col.</i>	Prof.

**Dental Bibliography**

Johnson, J. H., DDS	Librarian
---------------------	-----------

**Dental Material and Technology**

.....	Assoc. Prof.
-------	--------------

**Dental Pathology and Bacteriology**

Riddle, Winnifred C., BA	Asst. Prof.
--------------------------	-------------

**Dental Praxis****Dental Public Health**

Mitton, G. T., DDS DDPH	Prof., Hd. of Dept.
-------------------------	---------------------

**Dental Research**

Nikiforuk, G., MS <i>Ill.</i> , DDS	Chairman of Div.
-------------------------------------	------------------

**Dental Surgery and Anæsthesia**

Johnson, J. H., DDS	Prof.
Locke, R. S., BA <i>Sask.</i> , MS <i>Pitt.</i> , DDS	Prof.
MacDonald, D. H. J., DDS	Assoc. Prof.

**Dentistry**

Ross, W. J., DDS	Prof.
Antoni, A. A., DDS MScD	Prof.
Grainger, R. M., DDS MScD DDPH	
Hunter, H. A., DDS MScD	Assoc. Prof.
Jackson, Marjorie, DDS	Assoc. Prof.



Tanner, D. M., MBE, DDS BScD Assoc. Prof.  
 Martin, F., DDS, FACD Assoc. Prof.  
 Yule, O. J., BDS N.Z., DDS, FACD Asst. Prof.  
 Beierl, G. D., DDS *Mich.* Asst. Prof.

### Epidemiology and Statistics

Grainger, R. M., DDS MScD DDPH Consultant

### Medicine

Graham, J. W., MD DDS, FRCPCan Assoc. Prof.  
 McKelvey, A. D., MD, FRCPCan Sp. Lectr.

### Operative Dentistry

Ellis, R. G., BDS *Adel.*, DDS MScD,  
 FDSRCS Prof.  
 Anderson, P. G., DDS, FACD Prof.  
 Sheldon, J. M., DDS Assoc. Prof.  
 Hare, G. C., DDS, FACD Assoc. Prof.  
 Purves, J. D., DDS Assoc. Prof.

### Orthodontics

Harvold, E., DMD *Leip.*, PhD *Oslo*  
 Prof., Hd. of Dept.  
 Halderson, H., DDS Assoc. Prof.  
 Woodside, D. G., BSc DDS *Dal.*, MScD Assoc. Prof.  
 Culbert, M. R., DDS Asst. Prof.  
 Posen, A. L., MS *Ill.*, DDS Asst. Prof.  
 Spence, W. J., MDS *Northwestern*, DDS  
 Consultant

### Pedodontics

MacGregor, S. A., DDS Prof., Hd. of Dept.

### Periodontology

Williams, C. H. M., DDS BScD  
 Prof., Hd. of Dept.  
 McIntosh, W. G., DDS MScD, FACD Assoc. Prof.

### Preventive Dentistry

Kreutzer, J., DDS BScD, FACD Prof.  
 Nikiforuk, G., MS *Ill.*, DDS Prof.  
 Berry, Doris F. J., MA Asst. Prof.

### Prosthodontia

Godfrey, R. J., DDS MScD, FACD  
 Prof., Hd. of Dept.  
 Cox, M. A., MB Prof.  
 Downton, E. P., DDS BScD Assoc. Prof.  
 Twible, R. L., DDS BScD Assoc. Prof.

### Radiography

Poyton, H. G., FDSRCS Prof., Hd. of Dept.  
 52 Assocs., 8 Demrs., 3 Res. Assocs., 1 Instr.

## MEDICINE

MacFarlane, J. A., OBE, BA LL.D. *Sask.*,  
 MB Hon. MD *Laval*, FRCS, FRCSEd,  
 FRCSCan Dean

### Anæsthesia

Campbell, S. M., MB, FFARCS,  
 FRCPCan Assoc. Prof., Hd. of Dept.  
 Gordon, R. A., BSc *Sask.*, MD DA,  
 FRCPCan Asst. Prof.  
 10 Clin. Assts., 27 Clin. Teachers, 3 Assocs.,  
 4 Res. Fellows

### Anatomy, see also Zool., above

Duckworth, J. W. A., ChB MD *Edin.*  
 Prof., Hd. of Dept.  
 Ham, A. W., MB, FRSCan Prof.  
 Smith, C. G., BA MSc *W.Ont.*, MD PhD Prof.  
 Bensley, Mrs. Silvia H., BA *Mt.Holyoke*,  
 MD *Chic.* Assoc. Prof.  
 Howatson, A. F., MA PhD *Glas.* Assoc. Prof.  
 Lewis, G. F., MA Asst. Prof.  
 Anderson, J. E., MD Asst. Prof.  
 Axelrad, A. A., BSc MD CM PhD *McG.*  
 Asst. Prof.  
 Bilbey, D. L. J., MB BS PhD *Lond.* Asst. Prof.  
 Leeson, T. S., MA MB BChir *Camb.* Asst. Prof.  
 McKenzie, R. G., MD Asst. Prof.  
 Paynter, K. J., PhD *Col.*, DDS Asst. Prof.  
 McMurrich, Kathleen I. Lectr.  
 Campbell, W. R., MA MD, FRCS,  
 FRCPCan Lectr.  
 Hall, M. C., BSc(Med) Lectr.  
 McCuaig, K. O., MD Lectr.  
 7 Demrs., 1 Clin. Asst.

### Art as Applied to Medicine

Wishart, Maria T. Assoc. Prof., Dir.  
 1 Instr.

### Bacteriology, see Pathol.

### Biochemistry

Hanes, C. S., PhD ScD *Camb.*, BA, FRS  
 Prof., Hd. of Dept.  
 Butler, G. C., BA PhD, FRSCan Prof.  
 Crocker, B. F., MA PhD Assoc. Prof.  
 Fisher, Mrs. Jeanne M., MA PhD Asst. Prof.  
 Connell, G. E., BA PhD Asst. Prof.  
 Packham, Mrs. Marion A., PhD Lectr.  
 13 Fellows, 1 Res. Asst.

### Development of Modern Medicine

Boyd, W., MD *Edin.*, FRCP, FRCPED,  
 FRCSCan Sp. Lectr.

### Gynæcology, see Obstet. and Gynæcol.

### Hygiene, see above

### Medical Biophysics

Ham, A. W., MB, FRSCan Prof., Hd. of Dept.  
 Johns, H. E., BA *McM.*, LL.D *Sask.*, MA  
 PhD, FRSCan Prof.  
 Ash, C. L., BSc *Alta.*, MD DRad Prof.  
 Siminovitch, L., BSc PhD *McG.* Prof.  
 Axelrad, A. A., BSc MD CM PhD *McG.*  
 Assoc. Prof.

Cinader, B., PhD DSc *Lond.* Assoc. Prof.  
 Howatson, A. F., MA PhD *Glas.* Assoc. Prof.  
 Helleiner, C. W., PhD Asst. Prof.  
 McCulloch, E. A., MD, FRCPCan Asst. Prof.  
 Peters, M. Vera, MD Asst. Prof.  
 Till, J. E., MA *Sask.*, PhD *Yale* Asst. Prof.  
 Whitmore, G. F., MA *Sask.*, PhD *Yale* Asst. Prof.  
 Hunt, J. W., MSc *Sask.*, PhD *McG.* Asst. Prof.  
 2 Assocs.

### Medical Jurisprudence

Gray, K. G., QC, MD BSc(Med) Lectr.  
 McLean, C. R., MSc *McG.*, MD CM *Qu.* Lectr.

### Medical Research (Banting-Best Medical Research Department)

Best, C. H., CBE, DSc *Lond.*, *Oxon.*, *Paris*,  
*Chic.*, *Laval*, *Maine & Northwestern*,  
*ScD Camb.*, MD *Amst.*, *Louvain*, *Liège*  
*& Tor.*, LL.D. *Dal.*, *Melb.*, *Qu.* & *Edin.*,  
 MA, FRS, FRSCan, FRCPCan Prof., Dir.  
 Franks, W. R., OBE, MA MB Prof.  
 Lucas, C. C., MSc *Br.Col.*, PhD, FCIC,  
 FRSCan Prof.  
 Baer, E. E. F. T., PhD *Berl.*, FRSCan  
 (Synthetic Chem.) Prof.  
 Chute, A. L., OBE, PhD *Lond.*, MA MD,  
 FRCPCan Prof.  
 Campbell, J., MA PhD Prof.  
 Haist, R. E., MA MD PhD, FRSCan Prof.  
 Wrenshall, G. A., MSc *Sask.*, PhD *Yale*  
*& Tor.*, MA Assoc. Prof.  
 Baker, D. G., MA PhD Asst. Prof.  
 Buchnea, D., PhD *Berl.* Asst. Prof.  
 Logothetopoulos, J., MD *Athens* Asst. Prof.  
 Williams, S. G. R., BSc PhD *Liv.* Asst. Prof.  
 Salter, J. M., MA *Br.Col.*, PhD Asst. Prof.  
 Ridout, Jessie H., MA PhD Lectr.  
 Feasby, W. R., BA MD Lectr.  
 Lang, Jessie M., MA Lectr.  
 9 Res. Assocs., 1 Res. Asst., 1 Fellow

### Medicine

Wightman, K. J. R., MD, FRCPCan,  
 FACP Prof., Hd. of Dept.  
 Brown, W. H., BA *Sask.*, MA DM *Oxon.*,  
 FRCP, FACP Prof.

### Associate Professors

Anglin, A. F. W., BA *Montr.*, MD  
 Brooks, E. F. J., MD, FRCPCan, FRCP  
 Hyland, H. H., MD, FRCP, FRCPCan  
 Kerwin, A. J., MD *Lond.*, FRCPCan  
 Laidlaw, J. C., PhD *Lond.*, MA MD, FRCPCan  
 Macdonald, R. I., MD CM *Dal.*, BA,  
 FRCPCan, FRCP, FACP  
 Maltby, E. J., MB MA, FRCPCan  
 Spaulding, W. B., MD, FRCPCan  
 Squires, A. H., MD, FRCPCan  
 Wrong, N. M., MD, FRCPCan

### Assistant Professors

Burton, C. R., BA MD, FRCPCan

Crowther, T. A., MB  
 Davey, Jean F., OBE, BA MD, FRCPCan  
 Graham, J. W., MD DDS, FRCPCan  
 Gray, C. C., MD, FRCPCan  
 Greenwood, W. F., BA MD, FRCPCan  
 Hall, W. E., MD, FRCPCan  
 Hamilton, F. C., BA MB, FACP  
 Hetherington, H., BA MB, MRCP, FRCPCan  
 Moran, D. B., MA MD, FRCPCan  
 Ogryzlo, M. A., MD *Manit.*, FRCPCan  
 Oille, W. A., MD, FRCPCan, FACP  
 Paterson, J. F., BA MD *Camb.*, MRCP,  
 FRCPCan  
 Richardson, J. C., MBE, MD BSc(Med),  
 FRCPCan  
 Silversides, J. L., BSc MD *Manit.*, FRCPCan  
 Warwick, O. H., BA *Mt.All.*, MA *Oxon.*,  
 MD CM *McG.*, MRCP, FRCPCan  
 Walters, J. A., BA MD DPM, FRCPCan  
 Yendt, E. R., MD, FRCPCan  
 24 Assocs., 32 Clin. Teachers, 1 Sr. Fellow,  
 31 Fellows, 26 Demrs., 1 Res. Fellow

### Obstetrics and Gynaecology

Cannell, D. E., MB BSc(Med), FRSCan  
 Prof., Hd. of Dept.  
 Mann, J., MD CM *Qu.* Assoc. Prof.  
 Henderson, D. N., MB, FRSCan Assoc. Prof.  
 Johnston, H. W., MD, FRCSed,  
 FRSCan Assoc. Prof.  
 Meiklejohn, R. B., MD, FRCOG Assoc. Prof.  
 Purdy, A. D. T., MB Asst. Prof.  
 Maloney, Geraldine, BA MD, FRSCan,  
 FACS Asst. Prof.  
 Murby, W. H., MD Asst. Prof.  
 Watt, G. L., MB Asst. Prof.  
 6 Assocs., 14 Clin. Teachers, 6 Res. Fellows,  
 2 Fellows, 3 Resident Fellows, 2 Res.  
 Assts.

### Ophthalmology

Elliot, A. J., BA *Br.Col.*, MedScD *Col.*,  
 DOMS *Lond.*, MD Prof., Hd. of Dept.  
 Basu, P. K., BSc MB DOMS *Calc.* Assoc. Prof.  
 Macrae, H. M., MD Asst. Prof.  
 Morgan, A. L., MD Asst. Prof.  
 McCulloch, J. C., MD Asst. Prof.  
 Kelly, R. G. C., MD Asst. Prof.  
 6 Assocs., 6 Clin. Teachers, 3 Fellows, 1  
 Clin. Fellow, 1 Res. Assoc.

### Oto-Laryngology

Ireland, P. E., MD, FRSCan, FACS  
 Prof., Hd. of Dept.  
 Whaley, J. B., MD DLO Asst. Prof.  
 Henry, G. A., MD, FACS Asst. Prof.  
 French, D. B., DLO *Lond.*, MD Asst. Prof.  
 3 Assocs., 11 Clin. Teachers, 3 Fellows

### Pædiatrics

Chute, A. L., OBE, PhD *Lond.*, MA MD,  
 FRCPCan Prof., Hd. of Dept.  
 Boyd, Gladys L., MD BSc(Med), FRCPCan  
 Assoc. Prof.

Snelling, C. E., MB Assoc. Prof.  
 Ebbs, J. H., MD *Tor. & Birm.*, DChEng, FRCPCan Assoc. Prof.  
 Silverthorne, L. N., MB Assoc. Prof.  
 Hawke, W. A., MD, FRCPCan Assoc. Prof.  
 Rhodes, A. J., MD, FRCPEd Assoc. Prof.  
 Bain, I. W., MD, FRCPCan Asst. Prof.  
 Keith, J. D., MD Asst. Prof.  
 Edwards, H. E., MB Asst. Prof.  
 McNaughton, G. A., MD Asst. Prof.  
 19 Clin. Teachers, 1 Res. Assoc., 8 Assocs.,  
 4 Res. Fellows, 2 Fellows

### Pathological Chemistry

Dauphinee, J. A., OBE, MA *Br.Col.*, MD PhD, FRCPCan, FRSCan Prof., Hd. of Dept.  
 Nicholson, T. F., MB BSc(Med) PhD Assoc. Prof.  
 Gornall, A. G., BA *Mt.All.*, PhD Assoc. Prof.  
 Paul, W., BA PhD Assoc. Prof.  
 Porter, J., BA *McM.*, PhD Lectr.  
 3 Demrs., 2 Assocs., 4 Fellows, 1 Res. Assoc.

### Pathology and Bacteriology

Hamilton, J. D., MD, FRCPCan Prof., Hd. of Dept. of Pathol.  
 Greey, P. H., MD BSc(Med) Prof., Hd. of Dept. of Bacteriol.  
 Barrie, H. J., BM BCh *Oxon.* Prof.  
 Olszewski, J., MD *Poland & Freib.*, PhD *McG.* (Neuropathol.) Prof.  
 Donohue, W. L., MA MD Assoc. Prof.  
 Tom, Mary I., BA MB (Neuropathol.) Assoc. Prof.  
 McLean, C. R., MSc *McG.*, MD CM *Qu.*, FRCPCan Asst. Prof.  
 Ross, R. C., BA MD MSc *McG.*, FRCPCan Asst. Prof.  
 Anderson, W., MB ChB *Edin.* Asst. Prof.  
 Brown, T. C., MD Asst. Prof.  
 Movat, H. Z., MD *Innsbruck*, MSc(Med) PhD Asst. Prof.  
 Shea, S. M., BCh MSc MD *N.U.I.* Asst. Prof.  
 Lampert, P., MD *Fran.* Lectr.  
 Hawks, G. H., MD Lectr.  
 Blanchard, A. J., MD Lectr.  
 Thompson, D. W., BA MD *Sask.* Lectr.  
 3 Assocs., 13 Demrs., 6 Fellows, 4 Sr. Fellows, 1 Res. Assoc., 1 Res. Fellow, 1 Res. Asst.

### Pharmacology

Sellers, E. A., MD *Manit.*, PhD Prof., Hd. of Dept.  
 Lucas, G. H. W., MA PhD Prof.  
 Kalow, W., MD *Koenigsberg* Assoc. Prof.  
 Kalant, H., MD BSc PhD Assoc. Prof.  
 Schonbaum, E., ChemCand *Amst.*, PhD *McG.* Asst. Prof.  
 Smith, H. W., BA MSc *W.Ont.*, PhD Asst. Prof.  
 Armstrong, J. B., MD, FRCP Asst. Prof.  
 5 Demrs., 2 Fellows, 2 Assocs.

### Physical and Occupational Therapy

Jousse, A. T., BA *McM.*, MD Prof., Dir.  
 Crawford, J. S., MD, FRCPCan Asst. Dir.  
 LeVesconte, Helen P. (Occupnl. Th.) Sr. Lectr.  
 Pollard, Lilian (Phys. Th.) Sr. Lectr.  
 Cardwell, Mrs. Thelma M. Lectr.  
 Harland, Marguerite Lectr.  
 Robinson, Isobel M. Lectr.  
 Brown, Mrs. Wilma M. Lectr.  
 Bradshaw, R. O. F. Lectr.  
 Hudson, Wilma J. Lectr.  
 1 Clin. Teacher, 3 Instrs., 1 Assoc.

### Physiology

Best, C. H., CBE, DSc *Lond., Oxon., Paris, Chic., Laval, Maine & Northwestern, ScD Camb.*, MD *Amst., Louvain, Liège & Tor.*, LLD *Dal., Melb., Qu. & Edin.*, MA, FRS, FRSCan, FRCPCan Prof., Hd. of Dept.  
 Haist, R. E., MA MD PhD, FRSCan Prof.  
 Markowitz, J., MBE, MSinExpSurg *Minn.*, MB PhD Prof.  
 Monkhouse, F. C., BA *Sask.*, PhD Prof.  
 Campbell, J., MA PhD Assoc. Prof.  
 Johnson, W. H., BSc PhD Assoc. Prof.  
 Rappaport, A. M., MD *Prague*, PhD Assoc. Prof.  
 Goranson, E. S., MA *Br.Col.*, PhD Assoc. Prof.  
 Clarke, D. W., MSc *Alta.*, PhD *Cal.Tech.* Assoc. Prof.  
 Scott, J. W., MA MD Assoc. Prof.  
 Ashworth, M. A., MD BSc(Med) PhD Asst. Prof.  
 Sirek, O., MD *Bratislava*, MA PhD Asst. Prof.  
 Hawkins, Mrs. Rosemary D., BA *New Br.*, MA *Maine & Tor.*, PhD Asst. Prof.  
 Feasby, W. R., BA MD Lectr.  
 3 Res. Assocs., 4 Res. Assts., 1 Asst., 1 Res. Fellow, 1 Fellow

### Psychiatry

Stokes, A. B., CBE, MA BM BCh *Oxon.*, DCH DPM, FRCPCan Prof., Hd. of Dept.  
 Dewan, J. G., BA MD *W.Ont.*, PhD *Camb.*, DipPsych DPM *Lond.*, MA, FRCPCan Assoc. Prof.  
 Gray, K. G., QC, MD BSc(Med) Assoc. Prof.  
 Doust, J. W. L., BSc MB BS, FRCPCan Assoc. Prof.  
 Jackson, Mary V., MD Assoc. Prof.  
 Walters, J. A., BA MD, FRCPCan, FACP Assoc. Prof.  
 Boothroyd, W. E., BA *Mt.All.*, MD CM *Dal.* Asst. Prof.  
 Miller, A., MD DPsych Asst. Prof.  
 21 Clin. Teachers, 2 Fellows, 16 Assocs., 1 Res. Asst.

### Radiology

Singleton, A. C., MBE, MD, FFR, FRCPCan Prof., Hd. of Dept.  
 Ash, C. L., BSc *Alta.*, MD DRad Prof.  
 Hall, M. M. R., MD, FFR Assoc. Prof.

Munn, J. D., MD *W.Ont.*, DRad Asst. Prof.  
 Shannon, E. H., MD DRad, FFR Asst. Prof.  
 Harnick, L. R., MD Asst. Prof.  
 Hodge, K. E., MB BS  *Lond.*, FRCPCan Asst. Prof.  
 Peters, M. Vera, MD Asst. Prof.  
 5 Assocs., 9 Clin. Teachers, 1 Rad. Phys.

### Surgery

Kerger, F. G., MA *Oxon.*, MD MS, FRCS  
 Prof., Hd. of Dept.  
 Welsh, W. K., OBE, MB, FRCS, FRCSCan Prof.

### Associate Professors

Laird, R. C., BA *Qu.*, MD MS, FRCSCan, FRCS  
 Mitchell, D. R., BA MD MS, FRCS, FRCSCan  
 Botterell, E. H., OBE, MD *Manit.*, MS, FRCSCan  
 Dewar, F. P., MD, FRCSCan, FRCS  
 Farmer, A. W., MBE, MD, FRCSCan  
 Gordon, S. D., MB MS, FRCSCan, FACS  
 Bigelow, W. G., BA MD MS, FRCSCan, FACS  
 MacDonald, I. B., MD MS, FRCSCan, FACS  
 Towce, E. B., MD MS, FRCSCan, FRCSEd

### Assistant Professors

Aberhart, C., MD MS  
 Mills, J. R. F., MD MS, FRCSEd, FRCSCan  
 Carscadden, W. G., MB BSc(Med), FACS  
 Russell, J. L., MD, FRCSCan  
 Spooner, C. M., MD *Manit.*, FRCSCan, FACS  
 Watson, C. H., MD, FRCSEd, FRCSCan  
 White, A. W. M., MB BSc(Med), FRCSEd, FRCSCan  
 Delatue, N. C., BA MD MS, FRCSCan, FACS  
 Keith, W. S., MBE, BA MB  
 Mustard, W. T., MBE, MD MS, FRCSCan, FACS  
 MacIntosh, D. L., BA BSc MD CM *Dal.*, FRCSCan  
 Norman, H. R. C., MD, FRCS, FRCSCan  
 Thomson, S. A., MD  
 19 Assocs., 33 Clin. Teachers, 6 Fellows,  
 6 Resident Fellows, 19 Res. Fellows,  
 1 Res. Assoc., 1 Res. Asst.

### Therapeutics

Gardiner, W. J., MB, MRCP, FRCPCan Asst. Prof.  
 Jousse, A. T., BA *McM.*, MD Asst. Prof.  
 2 Clin. Teachers, 3 Assts., 1 Res. Fellow

### CONNAUGHT MEDICAL RESEARCH LABORATORIES

Ferguson, J. K. W., MBE, MA MD, FRSCan Dir.  
 Defries, R. D., CBE, MD LLD *Sask.*, DPH Consultant  
 MacLean, D. L., OBE, MB BSc(Med) DPH MD Assoc. Dir.  
 Moloney, P. J., OBE, MA PhD, FRSCan Asst. Dir.

Orr, M. D., OBE, BA Asst. Dir.  
 Brown, M. H., OBE, MD BSc(Med) DPH Asst. Dir.  
 Fisher, A. M., MA PhD Asst. Dir.  
 Wilson, R. J., MA *Br.Col.*, MD DPH Asst. Dir.  
 Allen, K. E., BA, FCIS Financial Administrator  
 Boyd, I. W., MSc *Qu.* Supt.  
 20 Res. Assocs., 3 Res. & Clin. Assocs.,  
 21 Sr. Res. Assts., 9 Res. Assts.

### ONTARIO COLLEGE OF EDUCATION

Diltz, B. C., MA *Qu.* Dean  
 Phillips, C. E., BA DPæd (Educn.) Prof.  
 Skinner, A. F., BSc PhD *St.And.*, MA *St.And. & Col.* Prof.

### Educational Methods

Diltz, B. C., MA *Qu.* (Engl. & Hist.) Prof.  
 St. John, Helen B., MA (Mod. Langs.) Prof., Supervisor of Women Students  
 Bryans, Helen L., MA *Col.*, BA (Phys. & Health Educn.) Prof.  
 Dadson, D. F., BA BED (Educn.) Prof.  
 Dean, Charlotte R., MA *Col.*, BA (Home Econ.) Prof.  
 Petrie, P. A., BA BPæd (Maths.) Prof.  
 Phillips, R. D., BSc *New Br.*, MED (Vocational Subjs.) Prof., Dir. of Vocational Trg. and Indust. Arts & Crafts  
 Tait, G. E., BA *W.Ont.*, BPæd EdD (Elem. Educn.) Prof.  
 Flower, G. E., MA *McG.*, EdD *Harv.* Prof.  
 Haig, A. P., BA (Music) Prof.  
 Loudon, A. H., BA *Qu.*, BPæd (Sci.) Prof.  
 Taylor, B. C., MA (Classics) Prof.

### Associate Professors

Ratz, Ruth E., BA (Home Econ.)  
 Parmenter, M. D., MA (Guidance) Dir. of Vocational Guidance Centre  
 Passmore, J. H., BA *McM.*, BPHE BED (Phys. & Health Educn.)  
 Tacon, P. H., BPæd MA (Art)  
 Carlisle, J. S., BA BPæd (Geog. & Hist.)  
 Seggie, A. P., BA (Comml. Subjs.)  
 McMaster, R. J., BA BED (Engl.)  
 Spry, J. C., BSA MED (Indust. Arts)  
 Frizzell, A. W., BASc (Vocational Subjs.)

### Assistant Professors

Bergey, W. E., BA *McM.* (Maths.)  
 Casson, R. G., BSc *W.Ont.* (Sci.)  
 Life, J. R., BPHE (Phys. Educn.)  
 Lockhart, A. D., MA *Qu.* (Hist.)  
 MacDonald, J. W., BA *Car.* (Engl.)  
 MacLean, W. B., MA *McM.* (Maths.)  
 Emerson, E. P., BA (Indust. Arts)  
 Luther, G. T. H.

### Lecturer

McLachlan, A. T., BA

**Educational Research**Jackson, R. W. B., BA *Alta.*, PhD *Lond.*

Prof., Dir.

Fowler, H. M., BA *McG.*, EdD *Harv.* Prof.Pitt, C. C. V., BA *Qu.*, MA PhD *Col.*, BPæd Prof.Dobson, G. A., BA BAcc *Sask.*, BPæd Asst. Prof.Fleming, W. G., BA *Qu.*, EdD Asst. Prof.Rideout, E. B., BA *Mt.All.* Asst. Prof.

Hobday, Kathleen M., MA Lectr.

Flowers, J. F., BPHE EdD Lectr.

Savage, H. W., BA *Manit.*, MEd Lectr.

3 Instrs.

**Library School**Bassam, Bertha, BA *Qu.*, BLS *Pratt*, MS *Col.* Prof., Dir.Silverthorn, Mary E., BA *Alta.*, BSinLS  
MA *Ill.*

Assoc. Prof.

Murray, Florence B., AMLS *Mich.*, BA

Assoc. Prof.

Ball, Katharine L., MA *Oxon.*, BA BLS

Assoc. Prof.

Cockshutt, Margaret E., BA BLS  
1 Instr. Lectr.**University of Toronto Schools**MacMurray, W. B., BA BPæd Headmaster  
22 Instrs.**UNIVERSITY EXTENSION, Division of**Williams, D. C., BA *Manit.*, MA PhD Dir.

..... Assoc. Dir.

..... Asst. Dir.

Milner, Dorothy de F. Asst. Dir.

**ADMINISTRATIVE AND OTHER STAFF**

Dir. of Athletics &amp; Phys. Educn. (Men): W. A. Stevens, BS. Dir. of Phys. Educn. (Women): Zerada Slack, BA. Dir. of Univ. Health Service: G. E. Wodehouse, MC, MD, FRCP; Asst. Dir., Univ. Health Service (Women): Frances H.

Stewart, BA MD. Dir. of Univ. Press: M. Jeanneret, BA. Gen. Sec.-Treasurer of Students' Admin. Council: E. A. Macdonald, BA. Dir. of Hart House Theatre: R. S. Gill, MA. Dir. of Placement Service: J. K. Bradford, OBE, MASC.

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VICTORIA COLLEGE, in the Faculty of Arts of the Univ., see p. 341.

TRINITY COLLEGE, in the Faculty of Arts of the Univ., see p. 339.

ST. MICHAEL'S COLLEGE, in the Faculty of Arts of the Univ. see p. 338.

**FEDERATED UNIVERSITIES**UNIVERSITY OF TRINITY COLLEGE, see p. 339.  
VICTORIA UNIVERSITY, see p. 341.

UNIVERSITY OF ST. MICHAEL'S COLLEGE, see p. 338.

**FEDERATED COLLEGES**KNOX COLLEGE, WYCLIFFE COLLEGE and EM-MANUEL COLLEGE. Teachers giving instruction in Univ. courses (*Religious Knowledge*): (1) Knox—Rev. J. S. Glen, MA PhD DD ThD, Principal; Rev. D. K. Andrews, MA PhD, Prof. (2) Wy-

cliffe—Rev. Canon L. Hunt, BA MTh DD, Principal; Rev. T. A. M. Barnett, MA, Prof. (3) Emmanuel—For Staff. see under Victoria Univ., p. 342.

**AFFILIATED UNIVERSITY****YORK UNIVERSITY**

Incorporated 1959

Postal Address: 84 Queen's Park Crescent, Toronto 5, Ontario, Canada

Telephone: WA 5-8851

Officers of Administration. President—M. G. Ross, BA DCI, Acad., EdD *Col.*, MA. Comptroller and Secretary of the Board of Governors—W. W. Small, MA *Col.*, BCom. Registrar—D. Smith, BA *McG.*, MA BLitt *Oxon.* Librarian—D. G. Lochhead, BA BLS *McG.*, MA.

**General Information.** York Univ., incorporated in 1959, admitted its first students in Sept. 1960. For a minimum of 4 yrs., the univ. will be affiliated with the Univ. of Toronto. During the initial period of affiliation it will offer an expanding curriculum in the general (3-yr.) course in arts & sci. (for BA of Univ. of Toronto). Fees (1960-61): \$500 (incl. registration, tuition, library, lab., exams., degree, athletics, health service, student union and student orgns.).

**Teaching Staff** [†—Part-Time]. Profs.: GEOG.—G. Tatham, MA *Liv.*, PhD *Clark*; HIST.—

E. W. McInnis, MA *Oxon.*, LL.D *Dartmouth* BA; MATHS.—J. R. Pounder, PhD *Chic.*, MA SOCIOLOG.—J. R. Seeley, AB *Chic.* Assoc. Profs. ENGL.—H. N. Maclean, BA *Prin.*, MA PhD; SOCIOLOG.—R. J. Coughlin, MA PhD *Yale*. Asst. Profs.: ENGL.—D. G. Lochhead, BA BLS *McG.*, MA; FRENCH.—L. J. Pronger, MA *Br.Col.*, DU *Paris*, PhD *Harv.* Lectrs.: MATHS.—Alice W. Turner, MA *McG.*, PhD; PHILOS.—†L. Rubinoff, BA *Qu.*, MA; POL. SCI.—D. Smith, BA *McG.*, MA BLitt *Oxon.*; PSYCHOL.—(also Res. Assoc.) N. S. Endler, MSc *McG.*, PhD *Ill.*

## AFFILIATED COLLEGES

### ONTARIO AGRICULTURAL COLLEGE

Established 1874

Postal Address: Guelph, Ontario, Canada

Telephone: TA 4-4120

**Officers of Administration.** President—J. D. MacLachlan, BA *Qu.*, AM PhD *Harv.* President Emeritus—W. R. Reek, MBE, LL.D *W.Ont.*, BSA Principal, Macdonald Institute (Home Econ.)—Margaret S. McCready, PhD *Aberd.*, BA. Registrar—H. W. Pettipiece, MEd *Corn.*, BSA. Bursar—L. Z. O'Neil. Dir. of Public Relations—J. A. Eccles, BSA. Dean of Men and Student Counsellor—I. A. White, MS *Mich.State*, BSA. Affiliated Officer: Dir. of Extension Liaison, Ontario Dept. of Agric.—E. I. McLoughry, BSA.

**General Information.** The main divisions of the coll. are agric. and home econ. Courses in agric.: associate dipl., 2 yrs.; BSA degree, 4 yrs.; summer sch. for public and high sch. teachers; also short courses. Research and investigation form an important part of the work. Facilities are also available for grad. work. MSA degree, 1 or 2 yrs. Courses in home econ. at Macdonald Institute: dipl. course, 1 yr.; degree course (BHS), 4 yrs.

Tuition fees—Degree course students resident in the Commonwealth, in all yrs., \$100 p.a.; degree course students from outside the Commonwealth, in all yrs., \$200 p.a.; dipl. course students resident in the Commonwealth, \$25 p.a.; dipl. course students from outside the Commonwealth, \$200 p.a. Lab., 1st and 2nd yrs., degree and dipl. courses, \$1.50 p.a., 3rd and 4th yrs., degree course, \$5 p.a. Contingency fees, all courses, \$10 p.a.

Rooms for over 650 students, men and women, on college campus. Bd. and room, \$10 per wk.

#### Teaching Staff

(Hds. of depts. & other full-time teaching officers of professorial rank)

AGRICULTURAL ECONOMICS. Prof., Hd. of Dept.: D. R. Campbell, BA *Oxon.* & *Tor.*

Prof.: S. H. Lane, BSA MSc *Sask.* Assoc. Profs.: M. A. MacGregor, MSA PhD *Corn.*, BSA; F. O. Sargent, BA *Colby*, PhD *Wis.*; G. I. Trant, MS PhD *Mich.State*, BSA; P. A. Wright, BSc(Agr) *McG.*, MS *Mich.State*. Asst. Profs.: R. G. Marshall, MS *Mich.State*, BSA; T. S. Rackham, BSA *Sask.*, MS *Montana*; A. C. Robertson, BSA; J. W. L. Winder, BComm MA PhD *Chic.* Lectrs.: W. M. Braithwaite, BA *W.Ont.*, CA; B. B. Perkins, BSc *Lond.*, MA *Manch.*

ANIMAL HUSBANDRY. Prof., Hd. of Dept.: G. E. Raithby, BSA. Prof.: J. C. Rennie, MS PhD *Iowa State*, BSA. Assoc. Profs.: R. H. Ingram, MNS *Corn.*, PhD *Penn.State*, BSA; G. K. Macleod, MS *Colorado*, PhD *Calif.*, BSA; M. W. Staples, MS *Iowa State*, BSA; E. C. Stillwell, MS *Iowa State*, BSA. Asst. Profs.: T. D. Burgess, PhD *Nott.*, MSA; R. P. Forshaw, BSA *Br.Col.*, MSc *McG.*; W. O. Kennedy, BSA; J. B. Stone, MSA.

APICULTURE. Prof., Hd. of Dept. and Provincial Apiarist: G. F. Townsend, MSA. Assoc. Prof.: R. W. Shuel, PhD *Ohio State*, MSA. Asst. Profs.: P. W. Burke, BSA, Asst. Provincial Apiarist; M. V. Smith, PhD *Corn.*, MSA.

BOTANY. Prof., Hd. of Dept.: F. H. Montgomery, MA *McM.* Profs.: R. O. Bibbey, BSA MSc *Sask.*, PhD *Iowa State*; B. H. MacNeill, BSc *Acad.*, PhD. Assoc. Profs.: H. M. Dale, MA PhD; C. B. Kelly, MS *Mich.State*, BSA. Asst. Profs.: G. L. Barron, BSc *Glas.*, PhD *Iowa State*, MSA; D. M. Britton, BA *Tor.*, PhD *Virginia*; L. V. Busch, CD, PhD *Wis.*, MSA; S. G. Fushtey, BSc(Agr) MSc *Alta.*, DIC, PhD *Lond.*; R. T. Riddell, MA *McM.*; C. M. Switzer, PhD *Iowa State*, MSA; C. G. Waywell, BSA MSc *Sask.*

**CHEMISTRY.** Prof., Hd. of Dept.: R. S. Brown, MA Qu., PhD McG. Prof.: D. Wag-horne, PhD Mich.State, BSA. Assoc. Profs.: L. A. Birk, MS Mich., BSA, FCIC; W. H. Brown, MA PhD, FCIC; H. Lees, BSc Liv., PhD Lond., FCIC. Asst. Prof.: J. R. Rothwell, BSA.

**DAIRY SCIENCE.** Prof., Hd. of Dept.: D. M. Irvine, MSc PhD Wis., BSA. Prof.: A. M. Pearson, MS Iowa State, BSA. Assoc. Prof.: F. W. Hamilton, BSA. Asst. Profs.: D. A. Arnott, BSA Manit., MSc Minn., PhD Penn.State; D. A. Biggs, BSc Sask., MSA; D. H. Bullock, PhD Wis., MSA; A. G. Leggatt, MSA.

**ENGINEERING SCIENCE.** Prof., Hd. of Dept.: C. G. E. Downing, BE Sask., MSc Iowa State. Profs.: H. D. Ayers, BE Sask., MS Wash.State; J. R. Scott, BSA; F. H. Theakston, BSc Acad., BE(Civil) ME N.S.T.C. Assoc. Profs.: W. K. Bilanski, MS PhD Mich.State, BSA; S. H. Collins, MA; C. P. Hedlin, BSc Sask., MSc Minn., PhD; F. R. Hore, MS Mich.State, BSA; J. G. F. Morton, BSc Dal., BE N.S.T.C. Asst. Profs.: D. E. Clark, BSA; R. W. Irwin, MS Iowa State, BSA; J. H. A. Lee, BSc Sask.; D. R. Pattie, BSc PhD Glas.; J. Pos, MSA; H. Robinson, BSc PhD Durh.; P. H. Southwell; E. G. Webb, BSA; D. F. Witherspoon, MS Mich.State, DipHydrEng T.H.Delft, BSA.

**ENGLISH.** Prof., Hd. of Dept.: E. C. McLean, MA. Prof.: A. M. Ross, MC, MA Qu., Assoc Inst. of Educn., Lond. Assoc. Prof.: D. A. Riggs, BA W.Ont., MA Col. Asst. Profs.: W. Carpenter, MA McM.; M. A. King, BA W.Ont., MA McM.; H. V. Weekes, MA Alta.

**ENTOMOLOGY AND ZOOLOGY.** Prof., Hd. of Dept.: W. E. Heming, PhD Corn., BSA. Profs.: H. W. Goble, MS Iowa State, BSA, Provincial Entomologist; R. H. Ozburn, MS Minn., BSA, FAAAS. Assoc. Profs.: A. de Vos, MS PhD Wis.; A. J. Musgrave, DIC, MSc Lond., PhD McM.; J. G. Oughton, BA PhD. Asst. Profs.: W. C. Allan, CD, MSA; S. E. Dixon, BA McM., PhD Corn., MSA; D. L. Jackson, BSc PhD Durh.; H. R. McCrimmon, BA McM., PhD; A. G. McNally, CD, MA W.Ont.; D. H. Pengelly, BSc Alta., PhD Corn., MSA; K. Ronald, MSc PhD McG.

**EXTENSION EDUCATION.** Prof., Hd. of Dept.: N. H. High, BSA MS PhD Corn. Prof.: H. W. Caldwell, BSA MSc(Ed) Corn., PhD Oregon. Asst. Profs.: R. W. Dent, MA; W. E. Mann, MA PhD.

**FIELD HUSBANDRY.** Prof., Hd. of Dept.: D. N. Huntley, PhD Iowa State, MSA. Profs.: G. E. Jones, MSA; W. E. Tossell, PhD Wis., MSA. Assoc. Prof.: R. S. Fulkerson, MSA. Asst. Profs.: B. R. Christie, PhD Iowa State, MSA; E. E. Gamble, PhD Iowa State, MSA; E. Reinbergs, BAgron Jalgava, PhD Manit., MSA; B. E. Twamley, BA Qu., MSc PhD Sask., BSA; W. H. Waddell, BSA Manit., MS Minn.; J. E.

Winch, PhD Corn., MSA; W. S. Young, PhD Corn., MSA.

**HORTICULTURE.** Prof., Hd. of Dept.: R. J. Hilton, BSc(Agr) McG., PhD Lond. Prof.: E. W. Franklin, MSA. Assoc. Profs.: R. Goodwin-Wilson, BSA; T. O. Graham, MS Minn., BSA. Asst. Profs.: M. H. Dickson, BSc(Agr) McG., MS PhD Mich.State; W. D. Evans, BSc(Agr) MSc Alta.; C. E. McNinch, BSA; J. C. Taylor; B. J. E. Teskey, MSA; H. Tiessen, MS PhD Mich.State, BSA; A. Zitnak, IngAgr Bratislava, MSc PhD Alta.

**MICROBIOLOGY.** Prof., Hd. of Dept.: E. H. Garrard, MSA. Profs.: F. E. Chase, PhD McG., MSA; L. A. McDermott, MSA; M. L. Wright, MSA. Assoc. Profs.: G. W. Anderson, MSc Dal., PhD Texas Agric., BSA; K. F. Gregory, BSA Br.Col., MSc PhD Wis. Asst. Profs.: J. A. Carpenter, CD, MSA; C. T. Corke, MSc W.Ont., PhD Rutgers; J. D. Cunningham, MSA; R. J. Douglas, PhD Mich.State, MSA; R. A. Johnston, MSA; D. C. Jordan, PhD Mich.State, MSA; J. B. Robinson, MSA; D. B. Shutt, BSA, FAAAS.

**NUTRITION.** Prof., Hd. of Dept.: H. D. Branion, MA PhD, FCIC. Assoc. Profs.: E. V. Evans, MA W.Ont.; D. C. Hill, PhD Minn., MSA; I. Motzok, MSA PhD. Asst. Profs.: D. Arthur, MSA; K. J. W. Jenkins, BSc(Agt) McG., MSc Sask., PhD Wis.; I. R. Sibbald, BSc Leeds, MSc PhD Alta.

**PHYSICAL EDUCATION.** Assoc. Prof.: W. F. Mitchell, BSA.

**PHYSICS.** Prof., Hd. of Dept.: E. B. MacNaughton, MA PhD. Prof.: G. C. Ashton, MSc McG., PhD N. Carolina State, BSA. Asst. Profs.: D. E. Elrick, MS PhD Wis., BSA; R. S. Gage, PhD Iowa State, MSA; J. R. Stevens, MA PhD.

**POULTRY SCIENCE.** Prof., Hd. of Dept.: J. R. Cavers, MS Minn., BSA. Profs.: S. J. Slinger, PhD Corn., MSA; E. S. Snyder, MS Wis., BSA. Assoc. Profs.: F. N. Jerome, PhD Corn., MSA; J. H. Pettit, MSA; C. M. Winget, BA San Francisco State, PhD Calif. Asst. Profs.: C. M. Huntsman, BSA; H. L. Orr, MS Penn.State, BSA; J. P. Walker, MS Penn.State, BSA.

**SOILS.** Prof., Hd. of Dept.: N. R. Richards, MS Mich.State, BSA. Profs.: B. C. Matthews, AM Missouri, PhD Corn., BSA; F. F. Morwick, MSA, FCIC. Assoc. Profs.: T. J. Heeg, MSA; J. W. Ketcheson, MS PhD Ill., BSA; N. J. Thomas, MSc Rutgers, BSA; L. R. Webber, MS Corn., BSA; A. L. Willis, MS PhD Wisc., BSA. Asst. Profs.: R. J. Bryden, BSA; W. T. Ewen, MSA; K. M. King, MS PhD Wis., BSA; T. H. Lane, MSA; D. E. Logsdail, BSc(Agr) McG., MSA; A. F. MacKenzie, BSA MSc Sask., PhD Corn.; M. H. Miller, MS PhD Purdue, BSA; R. W. Sheard, BSA Sask., MSA (on leave); J. A. Smith, MSA.

**LIBRARY.** Chief Librarian : Florence G. Partridge, BHS<sub>c</sub> BLS. Librarian : Marion D. Cameron, BA MLS.

#### MACDONALD INSTITUTE

*Postal Address :* Guelph, Ontario, Canada

**HOME ECONOMICS.** Principal : Margaret S. McCready, PhD *Aberd.*, BA. Assoc. Profs. :

Edyth L. Bray, MS *Minn.*, BHS<sub>c</sub>; Mabel Sanderson, MA *Col.*, BHS<sub>c</sub>; Mary E. Singer, MS *Iowa State*, BHS<sub>c</sub>; Olive M. Wallace, MS *Corn.* Asst. Profs. : Louisa E. Brill, BA; G. R. Couling; Grace C. Frank, MSc *Montr.*, BA; Dorothy Pearson, MA; Louise M. Poole, BS MA N.Y.

STUDENT NUMBERS (1959-60). Ontario Agric. Coll., 785; Macdonald Inst., 219.

### ONTARIO VETERINARY COLLEGE

Established 1862

*Postal Address :* Guelph, Ontario, Canada

*Telephone :* Ta 2-2330

*Officers of Administration.* Principal—T. L. Jones, DVM MSc *McG.* Bursar and Secretary—W. J. Beatty. Librarian and Registrar—F. E. Gattinger, MA *Sask.*, BLS *McG.*

The coll. comes under the Dept. of Agric. for Ontario and is affiliated with the Univ. of Toronto. Students may read for the degree of DVM of the univ. (5 yrs.).

#### Teaching Staff

(Hds. of depts. & other full-time teaching officers of professorial rank)

**ANATOMY.** Prof., Hd. of Dept. : J. H. Ballantyne, DVM.

*Div. of Gross Anatomy.* Prof., Hd. of Div. : J. H. Ballantyne, DVM. Assoc. Prof. : B. M. McCraw, PhD *Mich.*, MA. Asst. Profs. : H. Herchen, DrMedVet *Giessen*; O. W. Sack, DVM.

*Div. of Microscopical Anatomy.* Prof., Hd. of Div. : J. P. W. Gilman, BVSc *Syd.* Asst. Profs. : P. K. Basrur, MSc *Mys.*, PhD; P. McG. Mann, MSc *W Ont.*

**MEDICINE AND SURGERY.** Prof., Hd. of Dept. : J. A. Henderson, MS *Corn.*, DVM.

*Div. of Medicine.* Prof., Hd. of Div. : D. C. Blood, BVSc *Syd.* Prof. : D. C. Maplesden, DVM MSA PhD *Corn.* Assoc. Profs. : J. F. Cote, DVM; C. K. H. Roe, MS *Ill.*, DVM. Asst. Profs. : C. M. Fraser, BSA *Manit.*, DVM; O. M. Radostits, DVM.

*Div. of Surgery and Obstetrics.* Prof., Hd. of Div. : F. J. Milne, DVM *Colorado.* Assoc. Prof. : F. D. Horney, DVM. Asst. Prof. : D. C. Pope, BVetMed *Lond.*

*Div. of Animal Reproduction.* Prof., Hd. of Div. : C. A. V. Barker, MSc *McG.*, DVM DVSc. Assoc. Prof. : J. W. Macpherson, DVSc.

*Div. of Small Animal Medicine and Surgery.* Prof., Hd. of Div. : J. Archibald, DrMedVet *Giessen*, DVM MVSc. Assoc. Prof. : A. J. Cawley, DVM MVSc. Asst. Profs. : I. H. Lord, MS *Corn.*, DVM; P. W. Pennock, BS *New Hampshire*, DVM; J. H. Reed, DVM.

**PARASITOLOGY.** Prof., Hd. of Dept. : A. A. Kingscote, DVM DVSc. Assoc. Profs. : D. J.

Campbell; J. K. McGregor, MSc *McG.*, DVM DVPH.

**PATHOLOGY AND BACTERIOLOGY.** Prof., Hd. of Dept. : D. L. T. Smith, PhD *Corn.*, DVM.

*Div. of Pathology.* Prof., Hd. of Div. : J. D. Schroder, MS *Minn.*, DVM. Prof. : K. V. Jubb, BVSc *Syd.*, MS PhD *Corn.* Assoc. Prof. : B. J. McSherry, DVM MSA. Asst. Profs. : T. J. Hulland, DVM; T. J. Pridham, DVM; Miss B. F. Kingscote, DVM MVSc.

*Div. of Bacteriology.* Prof., Hd. of Div. : D. A. Barnum, DVM DVSc DVPH. Prof. : G. R. Carter, MS *Iowa State Agric.*, DVM DVSc. Assoc. Profs. : N. A. Fish, DVM DVPH; R. J. Humble, BA *McM.*, DVM; M. Savan, MS PhD *Wis.*, DVM; C. G. Wills, DVM. Asst. Profs. : C. P. Penrose-Fitzgerald, BA BSc *Dub.*; D. G. Ingram, PhD *Camb.*, DVM MVSc; K. A. McKay, MA MSA DVM; F. H. Newbould, MSA.

*Div. of Poultry Pathology.* Prof., Hd. of Div. : A. E. Ferguson, BSA DVM. Asst. Profs. : M. C. Connell, DVM; R. B. Truscott, MSA.

**PHYSIOLOGICAL SCIENCES.** Prof., Hd. of Dept. : H. G. Downie, MS *Corn.*, DVM MVSc. Consultants : J. Markowitz, MBE, MD PhD MS *Minn.*; J. F. Mustard, PhD *Camb.*, MD.

*Div. of Physiology.* Prof., Hd. of Div. : H. T. Batt, MS PhD *Corn.*, DVSc. Assoc. Profs. : A. R. Graham, MSc PhD *W. Ont.*; J. I. Raeside, BSc *Glas.*, MS PhD *Miss.* Asst. Prof. : C. R. Cameron, BA MSA.

*Div. of Pharmacology.* Prof., Hd. of Div. : W. T. Oliver, MSc PhD *McG.*, DVM. Asst. Prof. : N. Platonow, DVM *Montr.*, MVSc.

*Div. of Experimental Physiology.* Prof., Hd. of Div. : H. C. Rowsell, DVM PhD *Minn.*, DVPH. Asst. Prof. : G. A. Robinson, MSc PhD *W. Ont.*

**EXTENSION.** Prof. : W. R. Mitchell, DFC, DVM DVPH. Asst. Prof. : H. J. Neely, DVM.

**LIBRARY.** F. E. Gattinger, MA *Sask.*, BLS *McG.*, Asst. Prof., Librarian & Registrar; Lorna M. Bridge, BA *McM.*, BLS, Librarian.



ONTARIO COLLEGE OF ART, 100 McCaul St., Toronto (tel.: EM 6-4977). Principal—S. H. Watson.

ROYAL COLLEGE OF DENTAL SURGEONS OF ONTARIO, 234 St. George St., Toronto (tel.: WA 2-4552). Registrar—W. J. Dunn, DDS.

## GENERAL INFORMATION

There are 4 clearly defined periods in the hist. of the Univ. of Toronto: the foundation of King's Coll. and its progressive secularization, 1827-49; the Univ. of Toronto in isolation, 1850-89; federation, 1889-1905; and the period of consolidation and expansion from 1905 until the present day.

The univ. was founded in 1827 by royal charter as King's Coll. at York, as the state univ. of the province of Upper Canada, in close connexion with the Church of England. This moved other denominations to establish colls. independent of King's. Victoria was establd. by the Methodists at Cobourg in 1841, and Queen's at Kingston by the Presbyterians in the same yr. It was not until 1843 that the work of instructn. began at King's Coll.: the first degrees were granted in 1844. In 1849, after a bitter controversy, King's Coll. was secularized, removed entirely from its connexion with the Church of England, and its name changed to the Univ. of Toronto.

Irrked by this secularization, the Church of England in 1851 founded its own Univ. of Trinity Coll. In 1852 the Basilian Order established St. Michael's Coll. In 1853 a further change was made in the Univ. of Toronto through the creation of Univ. Coll. to which was given the entire work of instructn., the univ. itself becoming merely a legislative and examining body similar to the Univ. of London then recently establd. This move was prompted by the hope that the rival univs. would enter into federation, a vain hope for many yrs.

Only in the early eighties did representatives of the other colls. enter into negotiations for a scheme of federation, which was embodied in an act of the Ont. legislature in 1887. In 1890 Victoria and St. Michael's entered into federation with the Univ. of Toronto. Trinity Coll. was federated in 1904.

In 1905 the Ont. govt. appointed a commission to investigate and recommend action in regard to the univ. The Univ. of Toronto Act of 1906 laid the foundation of the present constitution of the univ. The present authority is that given by the Univ. of Toronto Act 1947 (as amended up to 1959).

Federation is confined to the fac. of arts & sci. The fac. is composed of 4 colls.: University Coll., Victoria Coll., Trinity Coll. and St. Michael's Coll., all of whose students meet the same admission and curricula requirements authorized by the senate. The financial affairs of Univ. Coll. are administered by the bd. of governors of the univ. but the other three arts colls. are autonomous instns. with degree-granting powers. They administer their own financial affairs and exercise their degree-granting powers only with respect to degrees in divinity.

In addn., Knox Coll. and Wycliffe Coll. are theol. instns. affiliated with the univ., but the senate exercises no control over their curricula. The situation is parallel with respect to Emmanuel Coll., the theol. coll. of Victoria Univ., and with respect to degrees in divinity offered by the Univ. of Trinity Coll. and the Univ. of St. Michael's Coll.

Situated in Guelph, 65 mls. from Toronto, are the Ont. Agric. Coll. and Ont. Vet. Coll., whose students proceed to degrees of the Univ. of Tor. These 2 affiliated colls. work in close co-operation with the provincial dept. of agric., which is ultimately responsible for their financial operations.

York Univ. (see p. 328) opened in autumn 1960 as an affiliated instn. of the Univ. of Toronto. Students attending York Univ. read for degrees of the Univ. of Toronto and initial teaching in York is confined to subjs. in the general arts course at the Univ. of Toronto.

**CONSTITUTION.** The univ. is administered by 2 sr. bodies: the bd. of governors (32 members) apptd. by the lt.-governor in council of the province of Ontario and primarily concerned with finance, and the senate (171 members), which is the official authority on all academic matters. Senate includes 32 *ex-officio* coll. hds., deans, dirs., etc., 16 reps. of professional licensing bodies, 60 reps. of the teaching fac. and 59 elected members of the grad. body.

The chancellor, chairman of the bd. of governors and pres. are *ex-officio* members of both senate and bd. of governors. The pres. is the chief executive officer of the univ. in both academic and financial areas; the chancellor, elected by a cttee. of election of 55 reps. of the grads., presides at convocations and certain other formal occasions.

**INCOME** (1958-59). Total income (not including federated univs. or such subsidiary orgns. as Royal Conserv. of Music of Toronto, Ont. Coll. of Educn., univ. press, Connaught med. res. labs.), \$17,625,922 (govt. grants, 52 per cent.; student academic fees, 22.3 per cent.; gifts and grants for assisted res., 12.5 per cent.; endowed income, 2.2 per cent.; other sources, 11 per cent.).

**UNIVERSITY PRECINCT.** The univ. is in the heart of Toronto. 4 of the city's principal arteries bound or cut through univ. properties. The univ. has acquired a 26-acre tract of land W. of St. George St., Toronto, where a proposed 12-yr. programme of expansion is already under way to provide the new bldgs. that will be needed as enrolment increases.

**LIBRARY.** 876,969 items (incl. stock of 3 branch reading rooms and 34 deptl. libraries);

federated arts colls., 195,580; other library collections, 321,867. Total of books on campus, 1,394,416 approx. The library has acquired the library of the Royal Canadian Inst., and is consequently especially strong on the sci. side. It has also sp. collections of French-Canadian lit., of Italian and Spanish belles-lettres, and of 18th-cent. Engl. lit.

**MUSEUMS.** Royal Ontario museum, 100 Queen's Park. Dir.—T. A. Heinrich, MLitt PhD L.I.D. World's largest univ. museum; functions also as provincial public museum. 3 curatorial divs. with 84 pub. galleries and each with res. collections and programme, reference library, service depts., etc., plus educn. div., office of information services, admin. dept. *Art & archaeol. div.*: permanent galleries, research collections in each of Greek and Roman, nr. eastern, far eastern European, textiles, Canadiana, and ethnol. depts. Collections illustrate pre-hist., classical civilizations, mediæv. and mod. Europe; outstanding Chinese collection covering entire range of art and archaeol., with large Chinese library; extensive ethnol. collections with emphasis on American Indian; N. American archaeol. collections and active res. programme; Sigmund Samuel Canadiana collection housed separately at 14 Queen's Park Cresc. West. *Life scis. div.*: depts. of mammal., ichthyol., ornithol., herpetol., invertebrates, fossil vertebrates, fossil invertebrates. Pub. galleries, very large res. collections and important reference library. *Earth scis. div.*: depts. of geol. and mineral. Pub. galleries of physical and appl. geol., systematic gallery of mineral., gem collection display. Extensive res. collections and library. *Educn. div.*: conducts museum educnl. programme for Ontario schools and adult groups, film programmes, children's clubs, etc. *Office of information services*: conducts pub. relations programme, audience res., museum radio and television, etc. All res. collections, libraries and museum facilities are available to res. workers.

The PONTIFICAL INSTITUTE OF MÆDÆVAL STUDIES of St. Michael's Coll. is a grad. sch. of res. The fac. members are members of the grad. sch. of the univ. The students are registered in the univ. as working for the MA or PhD degree. They may also qualify for the licentiate (LMS) and the doctorate (MSD) degrees awarded by the inst.

The ROYAL CONSERVATORY OF MUSIC OF TORONTO is within the univ. framework. It comprises the sch. of music and the fac. of music. The conservatory main bldg., adjoining the univ. campus, includes admin. offices, classrooms, library, 82 studios, concert hall, recital hall and 2 lecture halls.

LABORATORIES in all the sci. depts. A sub-critical REACTOR has recently been installed for the fac. of appl. sci. & engin.

BANTING INSTITUTE with depts. of pathol., bacteriol., med., surg., obstet. & gynæcol.,

ophthalmol., otolaryngol., pathol. chem. for teaching, clin. investigation and res. work.

BEST INSTITUTE OF PHYSIOL. Dept. of physiol. and Banting-Best dept. of med. res.

INSTITUTE OF AEROPHYSICS, near Steeles Ave. and Dufferin St., establ. in 1949 to train scientists and engineers in the mechanics of gases and plasmas, in the dynamics and gasdynamics of flight in the atmosphere and in space, in the design and analysis of flight structures, and for conducting res. in these areas; this is the only lab. of its kind in Canada.

COMPUTATION CENTRE, administered independently but associated with the dept. of physics, conducts res. in numerical analysis, scientific computing and data processing.

CONNAUGHT MEDICAL RESEARCH LABS. provide facilities for res. in prev. med. and in related fields and for production of and supply of sera, vaccines, hormones, antibiotics and other biol. preparations that are of importance to pub. health. Farm has been extended and is now approx. 230 acres. Second farm of 300 acres has been purchased.

DAVID DUNLAP OBSERVATORY, Richmond Hill, contains a 74-in. reflecting telescope which may be used either as a Cassegrain or a Newtonian, one of the largest in the world. Recent acquisitions include radio telescopes.

HOSPITALS available for clinics: Toronto (general), 1394 beds; Sick Children's, 647; St. Michael's (general), 950; Western (general), 640; Psychiatric, 76; Sunnybrook (veterans), 1535.

**FACULTIES.** *Arts & sci.*, Prof. V. W. Bladen (pol. econ.), dean; *med.*, Dr. J. A. MacFarlane, dean; *law*, Prof. C. A. Wright, dean; *appl. sci. & engin.*, Prof. R. R. McLaughlin (chem. engin.), dean; *household sci.*, Prof. Barbara A. McLaren, dir.; *educn.* (Ontario Coll. of Educn.), B. C. Diltz, dean; *for.*, Prof. J. W. B. Sisam, dean; *music*, Dr. A. M. Walter, dir.; *dent.*, Prof. R. G. Ellis, dean; *pharm.*, Prof. F. N. Hughes, dean. **SCHOOLS.** *Grad. studies*, Prof. A. R. Gordon (chem.), dean; *archit.*, Prof. T. Howarth, dir.; *phys. & health educn.*, Prof. J. H. Ebbs, dir.; *soc. work*, Prof. C. E. Hendry, dir.; *nurs.*, Prof. Nettie D. Fidler, dir.; *hyg.*, Prof. A. J. Rhodes, dir.; *library*, Prof. Bertha Bassam, dir. **INSTITUTES.** *Child study*, Prof. W. E. Blatz, dir.; *bus. admin.*, Prof. T. C. Graham (pol. econ.), dir.; *dept. of univ. extension*, Prof. D. C. Williams, dir.; *div. of phys. & occupnl. therapy*, Prof. A. T. Jousse, dir.

**SECRETARIES OF FACULTIES AND SCHOOLS.** (Arts & sci.) W. D. Foulds, BA; (med.) Mary L. Cassidy, BA; (appl. sci. & engin.) W. S. Wilson, ED, BASc; (household sci.) M. Doreen Smith, MA PhD; (educn.) Alice A. L. Elliott, BA; (for.) D. V. Love, BScF MF; (music) Frances M. Douglas; (grad. studies) . . . . .; (dent.) P. W. Millard; (pharm.) Flora M. Ward, BA; (law) Joyce McClelland; (archit.) S. R. Kent, BArch; (phys. & health educn.) Joan I. Bright; (soc. work) Margaret M. Imrie; (nurs.) Audrey M.

Cowling; (hyg.) D. L. MacLean, OBE, ED, MB BSc(Med) DPH; (child study) Jill Stopford, Erma Ross; (bus. admin.) Barbara V. Martin.

ADMISSION. See Appendix II.

FIRST DEGREES. 3 yrs.—pass BA (general course and general course in sci.), MusBac (music educn., general music), BPHE; 3 yrs. after at least 2 yrs. arts or BA—LLB; 4 yrs.—honour BA, BCom, BASc, BSc(Med), BScD, BHSc, BScF, BScPhm, BSA, BScN (3 yrs. for grad. nurses); 5 yrs.—BArch, DDS, DVM; 6 yrs.—MD; no time limit, min. 4 yrs.—general course (dept. of extension).

Honour BA may be taken in the following courses, with specific requirements beyond the minimum: classics, Engl. lang. & lit., Latin (Engl. or Italian option), Latin (French or Gk. option), mod. hist. (Engl. option), mod. hist. & mod. langs., mod. langs. & lits., music, household econ., a 1st-yr. course called maths., phys., chem. leading into maths. & phys., phys. & chem., phys. & geol., chem., a 1st-yr. course called science leading into biol., food chem., geog., geol. scis., physiol. & biochem.; with only minimum requirements: anc. nr. eastern studies, mod. nr. eastern studies, east asiatic studies, art & archæol., philos. (Engl. or hist. option), Slavic studies (2nd-yr. course after Russian incl. in any 1st-yr. course), and a 1st-yr. course called social and philosophical studies leading into anthropol., geog., mod. hist., philos., pol. sci. & econ., psychol., sociol.

A student who has already graduated in the fac. of arts, med. or sci. of a Canadian or other recog. univ. may complete the course in dent. in 4 yrs. instead of 5, provided he has covered certain prescribed subjects during his undergrad. course; and persons holding qualifs. obtained in Gt. Britain or Ireland registrable by the Dental Bd. of the U.K. or the BDS of approved Australian univs. may be admitted to the fac. of dent. without further exam., and to final DDS exams. on completing 1 full session in the fac. of dent.

The BSc(Med) may be conferred for sp. work or investigation as a grad. degree and in certain circumstances for an extra yr.'s work as an undergrad. Similar regns. govern the BScD.

Attendance is required for all degree courses. Correspondence or evg. courses may not be used for credit toward a degree in the univ., except the general course (dept. of extension). Only the BA degree through the general course (dept. of extension) and the MCom degree through the sch. of grad. studies may be earned by attending summer day and winter evg. classes. The MA, in Engl. only, and the MEd may be earned through summer sessions.

HIGHER DEGREES open to grads. in arts or sci. of any univ. or coll. approved by the sch. of grad. studies.

1 yr. after BA—BLS, BSW.

The MA, obtainable by approved course of grad. study extending over 2 yrs. or in the case of

a BA in an hon. course, 1 yr., may be taken in anat., anthropol., appl. maths., art & archæol., astronomy, biochem., bot., chem., classics, east asiatic studies, econ., educn. theory, Engl., food chem., geog., geol. scis., Germanic langs. & lits., hist., household sci., maths., mathl. stats., med. biophys., microbiol., nr. eastern studies, nutrition, pathol. chem., pathol., pharmacol., philos., phys., physiol., pol. sci., psychol., pub. admin., pub. health, romance langs. & lits., slavic studies, sociol., zool.

The PhD, open to a grad. in arts or sci. or dent. of this or another recog. univ. by pursuing in the Univ. of Toronto an advanced course of study for 3 yrs., exemption from 1 of which may be given in consideration of the candidate having already pursued such a course for 1 yr. A thesis embodying the result of an original investigation is required. The PhD may be taken in almost any subj. in which a master's degree is available and, in addition, in aeronaut. engin. & aerophys., chem. engin. and appl. chem., dent., electr. engin., mech. engin., metall. engin., nuclear engin.

MCom, by approved course of grad. study extending over 1 to 2 yrs.

MS obtainable after 3-yr. course open only to grads. in med. of a recognized univ.

MASc may be obtained by a BASc grad. of this univ. or one who holds an equivalent degree from some other univ. who pursues a course of advanced study in the fac. for 1 yr., presents a satisfactory thesis and passes such exams. as may be prescribed. The MASc may be taken in aeronaut. engin. & aerophys., appl. geol., chem. engin., civil engin., electr. engin., geol. scis., mech. engin., metall. engin., nuclear engin.

MARCH may be obtained by one who holds the degree of BArch or BASc, or an equivalent degree, under the same conditions as the MASc degree.

MScF is open to candidates who have obtained the BScF or equivalent degree. The course normally requires 2 yrs. if by exam., 1 yr. if by thesis.

BEF is open to candidates holding an approved degree in arts, sci., agric., engin. or comm., and a cert. as teacher valid in one of the provinces of Canada and issued after a regular course in an approved trg. sch. or the equivalent of such cert. and course of trg. The degree is awarded to those who supplement their professional trg. by attendance, after successful experience, at a summer session and complete work assigned. MEd is open to candidates who hold the BEF degree or equivalent standing. Requirement for the degree is completion of work assigned during attendance at 1 regular session or 3 summer sessions, although students of proven ability may obtain permission to write a thesis in place of the last 2 of the 6 units of instructn. ordinarily required. The EdD is open to holders of the MEd who qualify as candidates by their standing on selective tests; 1 regular session of course work and a major thesis, completed subsequently, are required.

MLS, 1-yr. course open to holders of BLS or equivalent.

MSW (master of social work) is open to grads.

who have obtained the BSW degree or equivalent. The DSW is open to holders of the MSW.

MSA is open to grads. who have obtained the BSA degree or equivalent.

MScD is open to grads. of the fac. of dent. of Univ. of Toronto or those with equivalent standing. It involves at least 2 yrs.' work.

MScPhm (master of sci. in pharmacy), open to holders of BScPhm, or equivalent degree, who pursue advanced course of study and submit satisfactory thesis. (Normally 2 academic sessions.)

MVSc or DVSc is open to grads. who have obtained BVSc or DVM degree or equivalent.

MusDoc is open to a MusBac and MusM of this or another univ. who had received bachelor standing at least 5 yrs. prior to registration or master standing at least 2 yrs. prior to registration.

MusM (master of music) may be obtained by those holding degree of MusBac or equivalent after 2 academic sessions of advanced work.

LLM may be obtained by an LLB grad. of the univ. or an approved univ., of at least 1 yr.'s standing, who passes the prescribed exams. and presents a satisfactory thesis. The DJur is open to candidates who have obtained LLM or equivalent. It requires 1 yr.'s attendance, exam. and a thesis.

The univ. publishes annually a *Sch. of Grad. Studies Calendar*. All communications on this subject must be addressed to the sch. of grad. studies.

HONORARY DEGREES. LLD, DSc, DLitt, DEng, DArch, MD, MusDoc, MA.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. For med. grads.: dipl. in bacteriol., dipl. in indust. health, dipl. in pub. health, each 8 months' academic course plus 2 to 3 months' field work; dipl. in psychiatry, dipl. in med. radiol., each 2 calendar yrs. Other dipls.: after Ontario grade XIII or equivalent: 3 yrs., phys. & occupnl. therapy; 2 yrs., dental hyg.; open to univ. grads.: 2 yrs., dipl. in speech pathol. & audiol.; 1 yr., vet. pub. health (DVPH), child study, town & regional planning, hosp. admin. (1 yr. acad. study, 1 yr. in a hosp.), nutrition; open to grads. in dent.: dental pub. health (DDPH) (1 yr. acad. study plus field experience); dental oral surg. & anæsth., orthodontics, pædodontics & periodontics (all require 8 months' theoretical, 24 months' clin. instructn.).

CERTIFICATES. After Ontario grade XIII or equivalent: min. 3 yrs., evg. course in business; open to phys. & occupnl. therapy grads. with 2 yrs.' experience: 2 yrs., teacher's cert. in phys. therapy, teacher's cert. in occupnl. therapy; open to grad. nurses: 1 yr., dental nursing, hosp. nursing service (general or advanced), nursing educn. (general or advanced), pub. health nursing (general), pub. health nursing (admin.) (general or advanced); open to univ. grads. in arts or sci.: 1 yr., pub. health (CPH) with or without specialization in certain subjects.

RESEARCH. Facilities for postgrad. res. or advanced study in most depts. of the univ. Details

of recent res. activities included in annual *President's Report*.

TRAINING OF TEACHERS. Candidates for a cert. to teach in the secondary schs. of Ontario must hold an approved degree and then attend the Ont. College of Educn. for 1 yr. A teacher of vocational subjects need not hold a degree, but must have practical experience as a journeyman in the trade, and must attend the Ont. College of Educn. for 1 yr.

FEES. Students proceeding to BA or BCom and enrolled in one of the federated arts colls. of the univ. attend lectures of univ. profs. and lectrs. in fac. of arts without payment of fees to the Univ. of Tor. except for library, lab. supplies, exams. and certain other incidentals. (Fees for BCom, however, are not entirely paid to the fed. coll.; some portion is paid to the univ.) The coll. fees, which entitle students to attend degree courses in their respective colls., are \$299 p.a. Students proceeding to BA or BCom in Univ. Coll. pay all fees to Univ. of Tor.

Schedule of annual fees payable to the univ.: appl. sci. & engin., men \$604, women \$581; archit., men \$601, women \$579; arts (Univ. Coll.), men \$423 (BA), \$453 (BCom), women \$407 (BA), \$437 (BCom); arts (Victoria, Trinity and St. Michael's), men \$88 (BA), \$303 (BCom), women \$68 (BA), \$283 (BCom); child study, men \$306, women \$291; dent., men \$426 (pre-dent.), \$606 (dental), women \$406 (pre-dent.), \$586 (dental); dent. hyg., \$406; ext. (BA) \$75 per subject; for., men \$528, women \$515; household sci., \$407; law, men \$455, women \$435; med., men \$422 (pre-med.), \$655 (medical), women \$404 (pre-med.), \$637 (medical); art as applied to med., men \$416, women \$396; phys. & occupnl. therapy: undergrad. course, \$430, teachers' course, \$291; nursing: degree course, \$305, course for grad. nurses, \$400; Ont. Coll. of Educn.: teachers' courses, men \$220, women \$205; libr. sch. degree course, men \$228, women \$213; pharm., men \$456, women \$436; phys. & health educn., men \$456, women \$440; soc. work, men \$446, women \$426; music, artist dipl., and licentiate dipl., men \$429 (1st yr.), \$464 (2nd yr.), \$509 (3rd yr.), women \$414 (1st yr.), \$449 (2nd yr.), \$494 (3rd yr.); mus. educn., general mus., men \$424, women \$404. *Other diploma courses*: archit. (town & regional planning), men \$333, women \$318; med.: dipl. in indust. health, \$525; dipl. in med. radiol., \$190 (1st yr.), \$85 (2nd yr.); dipl. in psychiatry, \$85 (1st yr.), \$85 (2nd yr.); dipl. in pub. health, \$525; dipl. in speech pathol. & audiol., men \$423, women \$408; hyg.: cert. in pub. health, \$533, dipl. in bacteriol., \$533, dipl. in hosp. admin., \$608, dipl. in vet. pub. health, \$533; dipl. in nutrition, \$533; dent.: dipl. in dent. pub. health, \$525, sp. dipl. courses, \$300 (1st yr.), \$300 (2nd yr.). *Other degree courses*: BScMed, \$250, BScD, \$250.

ACADEMIC YEAR. Winter session: 2 terms, from end of 3rd wk. in Sept. to mid-May

(Michaelmas, 12½ wks., Easter, 15 wks.). The univ. does not operate on a semester system.

**VACATION COURSES.** Summer session, beginning of July to mid-Aug.: sch. of grad. studies offers courses for credit toward degrees of MA in Engl., MEd, EdD, MCom and MLS. (See also 'University Extension', below.)

**SCHOLARSHIPS.** Numerous fellowships, scholps., bursaries and prizes are available in the various colls. and facs. of the univ. and sr. students may obtain assistance from loan funds held by the prov. govt., the alumni assocn. of the univ., the students' admin. council and the fac. of appl. sci. & engin.

Most of the scholps., fellowships, etc., tenable in the sch. of grad. studies are open to grads. of Canadian univs. (details in annual calendar of sch.); admission scholps. are open only to students who write the Ontario grade XIII depl. exams.

**UNIVERSITY PLACEMENT SERVICE,** 5 Willcocks St., co-ordinates and complements the employment facilities provided through the various facs. and depts. Offered to all grads. and undergrads. of the univ., it provides the means for the registration of those seeking specific full-time employment as well as supplying a centre to which employers may come and from which enquiries may be forwarded to the facs. most concerned. Pt.-time and summer employment are co-ordinated through the employment offices of the students' admin. council.

**RESIDENCES.** University Coll. residence for men (183), room and bd. \$620 for session; residence and bd. for women (225), at least \$585 for session; Devonshire House residence for men (200), room only, at least \$235 for session; Victoria Coll. halls for 250 men and 260 women, \$550-\$575; Trinity Coll. provides for 140 men (\$690) and 120 women (\$680); St. Michael's (R.C.) has residences for 500 men and 400 women, \$600.

**UNIVERSITY NAVAL, ARMY AND AIR FORCE COMPONENTS.** The armed forces' offices are on the campus, at 119 St. George St. Academic and military trg. is open to Canadian citizens or other British subjects resident in Canada, with the status of 'landed immigrants'. Under the Regular Officer Trg. Plan, undergrads. receive up to 4 yrs. of univ. educn. in most facs. with the option of release 3 yrs. after graduation. Compulsory tuition, dues and fees are paid by the service. A separate plan provides for med. and dent. students who may join as commissioned officers for their final yr. Practical trg. and annual leave are given during the summer; unit trg. is given 1 night wkly. during academic yr. The service provides identical military trg. for militia and reserve force undergrads. under a separate plan.

**STUDENT HEALTH SERVICE.** The univ. health service offers a partial but comprehensive med. service for students, incl. a required med. exam.

and chest X-ray for all new students and for certain other specified groups each yr. In addn., an out-patient clinic type of service is available to students throughout the acad. yr. for treatment and advice. Infirmary care is offered for minor illness. Extensive coverage is offered for athletic injuries, incl. an out-patient surg. and in-hosp. treatment where required. These services are covered by a specific fee paid annually by each student at the univ.

**STUDENTS' ADMINISTRATIVE COUNCIL** directs and administers student activities and publiscs. by means of a representative cttee. which is the recog. official medium of communication between students and the bd. of governors. Membership consists of the pres. or an elected rep. of each student govt. of the colls., facs. and schs. of the univ., and of *ex-officio* members without vote: a chairman, who is a grad. of the univ. of not more than 5 yrs.' standing; 2 salaried officials (sec.-treasurer and assoc. sec.) who are grads. of the univ. apptd. by the bd. after consultation with the students' council; 2 members of the fac. apptd. by the pres. of the univ.; and the editors of the student newspaper and the yearbook.

**HART HOUSE,** the gift of the Massey Foundation in memory of H. Massey, affords all the facilities of a first-rate club for male undergrads. The activities of the house are administered by cttees. on which sit undergrads., grads. and members of the fac. The Student Christian Movement has its headquarters in the house; it also contains a wing with the athletic assocn. offices, gymnasium, swimming pool, etc., in which phys. trg. and recreation for male students are carried on. Annual fee, \$18. Warden: J. McCulley. Tel. (hall porter): WA 3-6445.

**STUDENTS' UNIONS.** *The Women's Union of Univ. Coll.* provides a centre for undergrad. women of the coll., particularly those who live off the campus, and is extensively used by both men and women student clubs, dramatic and discussion groups. It contains common-rooms, a lecture hall used for student plays, lectures, meetings and dances, and a large dining-hall where non-resident students and women staff members lunch. *Wymilwood, the Victoria College Students' Union* was opened in 1952. A centre for student social activities, it is located at 150 Charles St. W. and is readily accessible from the main coll. bldg., the library and the residences. The cafeteria and a most attractive ground-floor common-room are reserved for women students. The other rooms are open to both men and women for meetings of clubs, societies and discussion groups.

**UNIVERSITY EXTENSION.** Courses leading to BA degree in evgs. for teachers and other adults; summer session in arts subjects and in educn.; evg. course in business leading to cert.; evg. tutorial non-credit classes in a variety of arts and cultural subjects during winter session; evg. non-cred: classes in subjects relating to business and industry during winter session; extension lectures throughout the province; correspond-

ence division conducts courses for credit for professional organizations; short refresher courses for social workers, sch. of nursing, accident prevention, public safety (safe driving), for groups of grads. and others in sp. fields.

**PUBLICATIONS.** *President's Annual Report*; *Calendars of colls., facs., schs. and insts.*, April-May; *Bulletins of the Dept. of Univ. Extension*; *Medical Bulletin*. Univ. of Toronto Press books and journals, including *Can. Journal of Psychology*; *Can. Journal of Mathematics*; *Univ. of Toronto Quarterly*; *Can. Historical Review*; *Can. Journal of Econ. and Pol. Sci.*; *Univ. of*

*Toronto Law Journal*; *The Phoenix*; *Univ. Studies*. Alumni and students' magazines—*Varsity Graduate*, *Univ. of Toronto Medical Journal*, *Univ. of Toronto Fac. of Law Review*, *Kya Yaka*.

**UNIVERSITY PRESS.** The Univ. of Toronto Press services the printing needs of the univ. and issues scholarly works, learned journals, serious non-fiction and reference works. The new BOOK-STORE erected in 1957, a division of the Univ. of Tor. Press, sells books, pocket books, text-books, stationery and supplies.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Prov. of Ontario, \$3,020,000 as capital grants for constrcn. and sinking funds, \$84,133 for res.; govt. of Canada: National Res. Council, \$778,134 for res. grants; Defence Res. Bd., \$696,415 for res. grants and Inst. of Aerophys.; Natl. Health grants, \$389,712 for res. and trg.; Ella J. Ferguson Trust, \$576,119.97 for G. Howard Ferguson Hall; estate of Dr. J. S. Chisholm, \$274,463 endowment for med. res.; estate of J. Nicholson, \$121,345.15 for Dictionary of Canadian Biog.; Natl. Fund for the Univ. of Toronto, \$120,000 as initial distribution for the bldg. programme; W. P. Caven Memorial Foundation, \$116,597.44 as endowment for fellowship in med. biophys.; Ontario Heart Foundation, \$104,294.08 for res. grants in med.; Atkinson Charitable Foundation, \$87,000 for bursaries and O.C.E. Talent Fund; U.S. govt. depts., \$82,669.14 for res. in aerophys., dent., hyg. and med.; E. J. Stone, \$76,668 as endowment for lectureship in drama; estate of Mabel N. Trenaman, \$70,000 for med. res.; J. P. Bickell Foundation, \$69,302.50 for res., scholps. and bursaries; Ontario Res. Foundation, \$63,551.38 for res. in arts, appl. sci. & engin., for., etc.; Rockefeller Foundation, \$55,433.15 for res. grants in pol. econ., hyg., etc.; Natl. Cancer Inst., \$54,554.92 for res. grants in arts, med. & hyg.; Internatl. Nickel Co. of Canada Ltd., \$54,265.50 for scholps., res. and bldg. funds; estate of C. A. Payne, \$50,480 for Banting-Best dept. of med. res.; Ford Foundation, \$46,738.75 for res. in pol. econ.; Carnegie Corp., \$44,418.75 for the O.C.E. Talent Fund; estate of J. B. Tyrell, \$40,404.86 as endowment for scholps.; Ontario Cancer Treatment & Res. Foundation, \$34,540 for med. res. grants; estate of Leah May Samuel, \$31,322.09 for the R.O.M. div. of art & archæol.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: women's athletic bldg., fac. of dent. bldg., supt.'s bldg. *To be completed by Sept. 1960*: labs., offices and lecture rooms for civil, electr. and aeronaut. engin.; labs., offices and lecture rooms for 11 humanities and soc. sci. depts. in fac. of arts; women's residence addition for 65 students; vet. products bldg. for Connaught med.

res. labs.; central steam and electrical services and plant capacity to double total campus.

**RETIREMENTS.** Prof. W. B. Dunbar (engin. drawing); Prof. H. J. C. Ireton (phys.); F. C. A. Jeanneret (principal of Univ. Coll., prof. of French); Assoc. Prof. H. J. Mullett (dent.); Prof. G. C. Patterson (Italian, Spanish & Portuguese); Prof. A. Wardell (engin. drawing); Prof. W. J. T. Wright (engin. drawing).

**RESIGNATIONS.** Asst. Prof. E. S. Carpenter (anthropol.); Asst. Prof. Mrs. J. D. Chaisson (soc. work); Asst. Prof. J. H. Couch (surg.); Assoc. Prof. R. S. MacKay (law); Asst. Prof. R. G. D. Malone (pathol.); Asst. Prof. M. McPhedran (nursing); Assoc. Prof. W. T. Noonan (obstet. & gynæcol.); H. L. Ormsby (ophthalmol.); Miss H. C. Plummer (microbiol.); Assoc. Prof. R. B. Potts (maths.); A. C. Robinson (dent.); Prof. D. S. Van Fleet (bot.); D. G. Wollin (radiol.). *Connaught Med. Res. Labs.*: E. E. Jones, Miss N. M. Howard, Miss M. P. Morris, G. W. O. Moss, H. C. Plummer, L. A. Swain.

**DEATHS.** S. E. de Champ (prof. emer. of French); R. MacGregor Dawson (prof. of pol. sci.); M. Tait (prof. of classics, U.C.); H. Wilson (prof. of Engl.); G. H. Duff (prof. of plant physiol.).

**HONORARY DEGREES.** *LLD*—Sir Thomas Dalling, vet. consultant of U.N.O.; W. C. Fleming, dean, Calif.; Sir Joseph J. S. Garner, high commissioner for U.K.; F. Lacoste, ambassador of France; W. A. Lewis, principal, U.C. of West Indies; A. D. A. Mason, dean emer., Tor.; M. A. Rushton, prof., Lond.; Major-Gen. G. P. Vanier, governor general.

## Statistics

### STUDENT NUMBERS, 1959-60

	Full-Time Part-Time	
Men . .	8092	2301
Women . .	3323	1139
Total	11,415	3440

**Distribution by Faculties and Schools.** *Appl. sci. & engin.*, 1903; *archit.*, 157; *arts*, 6750; *child study*, 14; *dent.*, 447; *educn.*, 695; *for.*, 88; *household sci.*, 14; *hyg.*, 38; *law*, 152; *library*, 56; *med.*, 1103; *music*, 126; *nursing*, 316; *pharm.*, 334; *phys. & health educn.*, 151; *phys. & occupnl. therapy*, 168; *soc. work*, 75; *town & regional planning*, 16; *grad. studies*, 1644; *univ. ext.*, 608. Total: 14,855.

*Included in the figures above are :—*

Graduate students, 1644.

New admissions, 4118 (undergrads. only).

Students from other countries, 590 (excl. grad. students). (Countries from which largest numbers came: Commonwealth countries, 278; U.S.A., 208; Europe (excl. U.K.), 56).

*Excluded from the figures above are :—*

Extension: 18,006.

DEGREES AWARDED (1958–59). PhD, 65; MA,

159; MCom, 53; MS, 2; MASc, 59; MSA, 27; MScD, 1; MVSc, 5; MusDoc, 2; MSW, 17; MLS, 2; MEd, 84; MScPhm, 3; BA, 955; BCom, 63; MD, 147; BSc(Med), 2; BASc, 484; BArch, 25; BHSc, 50; BEd, 157; BLS, 44; BScF, 11; MusBac, 17; DDS, 73; LLB, 34; BPHE, 37; BSW, 47; BScN, 30; BScPhm, 85; BSA, 113; DVM, 48.

DIPLOMAS AWARDED (1958–59). Artists' (mus.), 10; bacteriol., 7; child study, 12; dent. hyg., 8; dent. pub. health (DDPH), 6; hosp. admin., 8; licentiate, 4; med. radiol., 5; orthodontics, 6; periodontics, 5; phys. & occupnl. therapy, 55; psychiatry, 25; pub. health (DPH), 19; town & regional planning, 15.

CERTIFICATES AWARDED (1958–59). Business, 92; hosp. nursing service, 49; nursing educn., 18; pub. health, 1; pub. health nursing admin., 21; pub. health nursing general, 83.

[Information compiled as at 13/5/60]

## UNIVERSITY OF ST. MICHAEL'S COLLEGE

Established 1852

(Federated with the University of Toronto)

Postal Address: Toronto 5, Ontario, Canada

Telephone: WA 3-4614

CHANCELLOR—H.E. J.C. Cardinal McGUIGAN, DD

PRESIDENT—Rev. J. M. KELLY, MA PhD

VICE-PRESIDENT AND REGISTRAR—Rev. H. V. MALLON, MA

COUNCILLOR—Very Rev. J. F. MADDEN, MA PhD

PRAESES, PONTIFICAL INSTITUTE OF MEDIAEVAL STUDIES—Rev. E. J. McCORKELL, MA LLD

DEANS, FACULTY OF THEOLOGY—Rev. W. H. PRINCIPE, MA MSL; Rev. V. KEATING, BA STD

LIBRARIAN—Rev. F. A. BLACK, BA

BURSAR—Rev. J. S. KELLY, BA

### TEACHING STAFF

See names marked (M) in the consolidated list under Toronto Univ. above

### GENERAL INFORMATION

St. Michael's Coll. was establd. in 1852 by the Rt. Rev. Armand François, Comte de Charbonnel, second bishop of Toronto, and placed under the

direction of the Basilian Fathers. It was incorporated as an instn. of higher learning by the statutes of the province of Canada in 1855. In

1881 St. Michael's was affiliated, by statute of the univ. senate, to the Univ. of Toronto. In the univ. acts of 1887 and 1904 it was described as a federated theol. coll., but continued independently as a classical coll. for Catholic laymen. When the Univ. of Toronto was reorganized by the Univ. Act of 1906, St. Michael's entered the new univ. federation as an arts coll. preparing students for univ. degrees. In 1954 St. Michael's obtained independent civil establishment for its theol. sch. and in 1958 was constituted by the legislature of the province of Ontario as a univ. in federation with the Univ. of Toronto.

St. Michael's, in conjunction with the Univ. of Toronto, offers full programmes in arts, sci. and comm. at undergrad. level and, independently, in theol. and related studies at postgrad. level. The Inst. of Mediaeval Studies is located on the same campus.

UNIVERSITY PRECINCT. The univ. is situated on Queen's Park Crescent on a site of 13 acres adjoining the campus of the Univ. of Toronto.

LIBRARY. 28,000 vols.

ADMISSION REQUIREMENTS. Arts : as for Univ. of Toronto (*see* Appendix II).

FIRST DEGREES (of Univ. of Toronto). BA, BCom.

HIGHER DEGREES (of Univ. of St. Michael's Coll.). At Pontifical Inst. of Mediaeval Studies : MSL

(licentiate in mediaeval studies), 3 yrs. from BA ; MSD (doctorate in mediaeval studies), 2 yrs. from licentiate. Specialization offered in hist. of canon law, hist. of Christian worship, Latin lit., mediaeval hist., philos., theol., vernacular lit.

Fac. of Theol. : STB (bachelor in sacred theol.), 3 yrs. from BA.

FEES. Arts : tuition fees are the same as those of the Univ. of Toronto (*see* p. 335).

ACADEMIC YEAR. As for Univ. of Toronto (*see* p. 335).

SCHOLARSHIPS. Admission scholps., Atkinson Foundation admission scholps.

STUDENT RESIDENCES. Residence facilities provided for Catholic professl. students registered in the Univ. of Toronto ; St. Joseph's Coll. and Loretto Coll. provide residence facilities for women students registered in the Univ. of St. Michael's Coll. Accommod. for 415 men and, at St. Joseph's Coll. and Loretto Coll., for 350 women. Fees for bd. and semi-private room, \$76 per month.

STUDENT SERVICES incl. a collegiate church and chapel, a dining-hall and a student co-operative cafeteria.

[Information compiled as at June 1960]

## UNIVERSITY OF TRINITY COLLEGE

Founded 1851

(Federated with the University of Toronto)

Postal Address : Toronto 5, Ontario, Canada

Cables and Telegrams : Trinity College, Toronto

Telephone : WA 3-8411

CHANCELLOR—G. B. STRATHY, QC, LL.D.

VICE-CHANCELLOR AND PROVOST—Rev. D. R. G. OWEN, MA Oxon., BA PhD Tor., DD St. John's (Manit.), K.C.N.S. & Wycliffe(Tor.)

VICE-PROVOST—G. EDISON, AM Col., PhD Tor.

REGISTRAR AND DEAN OF MEN STUDENTS—A. J. EARP, BA Tor., MA Cinc., MLitt Camb.

DEAN OF WOMEN STUDENTS AND PRINCIPAL OF ST. HILDA'S COLLEGE—KATHARINE M. DARROCH, MA Camb., BD Lond.

LIBRARIAN—J. W. COLE, MA Oxon.

BURSAR—E. L. ARMSTRONG



## TEACHING STAFF

## ARTS

See names marked (T) in the consolidated list under Toronto Univ. above

## DIVINITY

[† = Part-Time]

## Christian Education

Scovil, Rev. G. C. C., MA *Tor.*, DD  
†Dir. of Field Work

## Church Music

Hodgins, J. †Lectr.

## Dogmatic Theology

Fairweather, Rev. E. R., BA *McG.*,  
MA *Tor.*, ThD *U.T.S.(N.Y.)* Assoc. Prof.

## Ecclesiastical History and Liturgics

Smith, Rev. W. L., MA *Oxon.* & *Tor.*  
Assoc. Prof.

## History and Philosophy of Religion

Edison, G., AM *Col.*, PhD *Tor.* Prof.  
Owen, Rev. D. R. G., MA *Oxon.*, BA  
PhD *Tor.* Lectr.

## Homiletics

Buchner, Rev. H. W., BA *Alta.*, LTh  
Asst. Prof.

## Moral and Pastoral Theology

Feilding, Rev. C. R., BA *K.C.N.S.*,  
STD *GeneralTheol.Sem.* Prof.

## New Testament and New Testament Greek

Bearc, Rev. F. W., BA *Tor.*, PhD *Chic.* Prof

## Old Testament, Hebrew and Septuagint Greek

Newby, Rev. M. T., MA *Tor.* Prof  
Asst. Prof.

## TUTORS

Darroch, Katharine M., MA *Camb.*,  
BD *Lond.*  
Campbell, Rev. W., STB *GeneralTheol.Sem.*  
Summerhayes, Rev. S., BA *Tor.*, STB

## GENERAL INFORMATION

The Univ. of Trinity Coll. was founded in 1851 by John Strachan, first Bishop of Toronto, and received a royal charter in 1852. Degrees were conferred in arts, div., med. and music until Trinity Coll. federated with the Univ. of Toronto in 1904 and restricted its work to the two facs. of arts and div. As an arts coll. it forms an integral part of the fac. of arts of the Univ. of Toronto and all the courses of that fac. are open to its students; as a theol. coll. Trinity maintains its own fac. of div. and confers the titles and degrees noted below.

**CONSTITUTION.** The coll. is governed by the corporation of Trinity Coll. and its executive cttee.

**INCOME** (1958-59). \$731,923.

**FACULTIES AND DEANS.** *Arts*, C. Lewis (German); *div.*, Rev. C. R. Feilding (moral & pastoral theol.).

**UNIVERSITY PRECINCT.** The coll. bldgs. and men's residence form a quadrangle on Hoskin Ave. within the grounds of the Univ. of Toronto. St. Hilda's Coll., the residence for women, is near by.

**LIBRARY.** 47,500 vols.

**ADMISSION REQUIREMENTS.** Arts: as for Univ. of Toronto (*see* Appendix II). Div.: 1st degree from a recog. univ.

**FIRST DEGREES** (of Univ. of Toronto). 3 yrs.—BA gen.; 4 yrs.—BA hon., BCom. Instrucn. is given by Trinity in classics, Engl., ethics, French, German, oriental hist., oriental langs., relig. knowledge; in all other subjs., whether in gen. or hon. courses, instrucn. is given by staff of the Univ. of Toronto.

**HIGHER DEGREES** (of Univ. of Trinity College). 3 yrs. after BA (or equivalent)—LTh, STB. Trinity also confers the degrees of MTh, ThD and DD, and (on the recommendation of the bd. of examiners of the Anglican Church of Canada) the degree of BD.

**RESIDENCE.** For men (fees, \$690): Trinity Coll., 140 students. For women (fees, \$680): St. Hilda's Coll., 80 students.

**FEES.** Arts: tuition fees are the same as those of the Univ. of Toronto (*see* p. 335); incidental coll. fees, \$34.50. Div. tuition, \$112.50.

**SCHOLARSHIPS.** Eleven open admission scholps. offering free tuition, awarded on basis of Ontario

grade XIII, or equivalent; 2 postgrad. fellowships of \$1000 for study of humanities in grad. sch. of Univ. of Toronto.

GRADUATE ASSOCIATION. Convocation of Trinity Coll.; executive sec., G. O. Shepherd, BCom.

STUDENT COUNCIL. Bd. of stewards (men); St. Hilda's Coll. meeting (women).

PUBLICATIONS. *Calendars* of facs. of arts and div. annually; *Trinity Univ. Review*, 6 times a yr.; *A History of the University of Trinity College, 1852-1952*. Ed. by T. D. Reed. (Univ. of Toronto, 1952).

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Approaching completion*: addition to women's residence; academic bldg.

HONORARY DEGREES. DD—Rt. Rev. J. A. Meaden, bishop of Newfoundland; Ven. S. F. Tackaberry, formerly archdeacon of Edmonton; Canon L. F. Wilmot, warden of St. John's Coll., Winnipeg.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	328	8
Women . . .	272	1
Total	600	

Distribution by Faculties. *Arts*, 566; *div.*, 43. Total: 609.

*Included in the figures above are :—*

Postgraduate students (*div.*), 43.

New admissions, 195.

Students from other countries, 44. (Countries from which largest numbers came: W. Indies Fed., 21; U.S.A., 10; U.K., 8).

DEGREES AWARDED (1958-59). *Arts and comm.* (conferred by Univ. of Toronto): BA, 146; BCom, 11. *Div.* (conferred by Univ. of Trinity Coll.): LTh, 13; STB, 6; MTh, 1; BD, 2.

[Information compiled as at May 1960]

## VICTORIA UNIVERSITY

Incorporated 1836

(Federated with the University of Toronto)

Postal Address: Queen's Park, Toronto 5, Ontario, Canada

Cables and Telegrams: Viccollege, Toronto

Telephone: WA 4-7101

CHANCELLOR—Hon. L. O. BREITHAUP, LLD McM., *Northwestern Coll., Ill., Tor., W.Ont. & Qu.*

PRESIDENT AND VICE-CHANCELLOR—Rev. A. B. B. MOORE, BA McG., DD Montr. & Trin.Coll.Tor., LLD Sask. & McM.

PRINCIPAL, VICTORIA COLLEGE—H. N. FRYE, BA Tor., MA Oxon., DD United Coll. (Manit.), LLD Car., DLitt New Br., FRSCan

PRINCIPAL, EMMANUEL COLLEGE—Rev. K. H. COUSLAND, MC, MA Oxon., DD Montr. & Knox (Tor.)

REGISTRAR—F. A. HARE, MA Tor.

LIBRARIAN—MARGARET V. RAY, BA Tor.

## TEACHING STAFF

## ARTS (Victoria College)

See names marked (V) in the consolidated list under Toronto Univ. above

## THEOLOGY (Emmanuel College)

## Christian Education

Guthrie, Rev. J. R., MA BD BEd PhD *Edin.*,  
STM U.T.S.(N.Y.) Prof.

## Church History

Cousland, Rev. K. H., MC, MA *Oxon.*,  
DD *Montr. & Knox (Tor.)* Prof.

## Homiletics and Pastoral Theology

Boyce, Rev. G. W., BA BD *Qu.*,  
STM U.T.S.(N.Y.) Asst. Prof.

## New Testament Literature and Exegesis

Blackman, Rev. E. C., MA BD *Camb.* Prof.

## Old Testament Literature and Exegesis

Dobbie, Rev. R., MA BD *Glas.*, MTh *Lond.* Prof.

## Philosophy of Religion and Christian Ethics

Jay, Rev. C. D., MA *Tor.*, PhD *Edin.*,  
BD Assoc. Prof.

## Public Speaking

McMullen, Rev. G. A., BA *Tor.* Prof.

## Public Worship

Kelly, Rev. W. M., MA BD *Glas.*,  
STM U.T.S.(N.Y.) Prof.

## Systematic Theology

Fennell, Rev. W. O., BA *Tor.*,  
STM U.T.S.(N.Y.) Prof.

## ADMINISTRATIVE AND OTHER STAFF

Bursar : W. C. James, BA *Tor.* Dean of  
Women : Jessie Macpherson, MA PhD *Tor.* ;  
Sr. Tutor : C. C. Love, MA *Camb.*, PhD *Tor.*

Accountant : K. M. Dinsmore, BCom *Tor.*  
Supt. of Buildings and Grounds : F. C. Stokes,  
MA *Tor.*

## GENERAL INFORMATION

Originally establd. as the Upper Canada Academy at Cobourg, Ont., in 1836 by charter of King William IV. Granted degree-conferring powers in 1841. Facs. of med., sci. and law were contd. along with arts and theol. until 1892, when Victoria, having entered into federation with the Univ. of Toronto, moved to Toronto and agreed to hold in abeyance its power to grant degrees except in theol. ; arts students at Victoria receive their degrees from the Univ. of Toronto. In 1928, by act of the legislature of the province of Ontario, Victoria received an amended charter by which it continues in federation with the Univ. of Toronto and in connexion with the United Church of Canada (formed in 1925 by the union of the Congregational, Methodist and Presbyterian churches in Canada), and includes within itself, under one bd. of regents and one senate, two colls., Victoria Coll. in arts and Emmanuel Coll. in theol., the latter formed by the union of the Victoria Univ. fac. of theol. with Union Theological Coll.

LIBRARY. 100,000 vols. Special features—Canadian verse and Tennysonianiana (C. C. James's collections), Canadian church hist., *Erasmiana*.

ADMISSION REQUIREMENTS. Victoria Coll. : as for fac. of arts of Univ. of Tor. (see Appendix II) Emmanuel Coll. : 1st degree from a recog. univ.

FIRST DEGREES (of Univ. of Toronto). 3 yrs.—BA gen. ; 4 yrs.—BA hon., BCom. Instrucn. is given by Victoria Coll. in Engl., ethics, French, German, Greek, Greek & Roman hist., Hebrew, Latin, nr. eastern hist., relig. knowledge ; in all other subjs., whether in gen. or hon. courses, instrucn. is given by staff of the Univ. of Toronto.

HIGHER DEGREES (of Victoria Univ.). BD, 3 yrs. subsequent to graduation in arts ; postgrad. courses for ThM, ThD and BRE (bachelor of religious educn.). The univ. also awards the honorary degrees of DD and DLittS.

DIPLOMA. Theol., 3 yrs. after 3 or 4 yrs. in arts.

FEES. Arts : tuition, \$328 p.a. ; comm. : \$143 p.a. ; incidental fees, approx. \$80–\$90 p.a. ; residence, \$550–\$575 p.a. Theol. : candidates for United Church ministry are not charged tuition fees for the ordinary course ; BD, candidates for United Church ministry, \$35 ; BRE, full-time

professional workers in United Church, \$35, others \$200; ThM, \$75; ThD, \$125 in addn. to fee for ThM.

RESIDENCE. Victoria Univ. men's residences, 89 Charles St. West (261 men); Victoria Univ. women's residences, 95 Queen's Park Crescent and 140 Charles St. West (255 women).

PUBLICATIONS. Emmanuel Coll. *Calendar* (July); Victoria Coll. *Bulletin* (April); *Victoria Reports* (twice yearly); *Acta Victoriana*, a students' monthly; *A History of Victoria University*. C. B. Sissons. (Univ. of Toronto, 1953).

BOOK BUREAU (coll. bookstore).

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Total value of all benefactions received: \$111,049.

HONORARY DEGREES. DD—Rev. A. P. S. Addison, minister, Elliot Lake; Rev. G. W. Goth, minister, London, Ont.; Rev. B. L. Oaten, minister, Paris, Ont. DLittS—Hon. L. B. Pearson of Ottawa, former chancellor.

### Statistics

#### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	918	73
Women . . .	695	5
Total	1613	78

Distribution by Faculties. *Arts*, 1516; *theol.*, 175. Total: 1691.

*Included in the figures above are :—*

Postgraduate students, 72.

New admissions, 629.

Students from other countries, 35. (Countries from which largest numbers came: W. Indies Fed., 19; U.S.A., 3; Ghana, 3).

DEGREES AWARDED (1958-59). *Theol.* (conferred by Victoria Univ.): BD, 44; BRE, 1; ThM, 3; ThD, 1. *Arts and comm.* (conferred by Univ. of Toronto): BA, 250; BCom, 34.

DIPLOMAS (1958-59). *Theol.* (awarded by Emmanuel Coll.): 30.

# UNIVERSITY OF WESTERN ONTARIO\*

Founded 1878

Postal Address : London, Ontario, Canada

Cables and Telegrams : Western, London, Ontario

Telephone : London GE 4-6861

VISITOR—His Honour The Lieutenant-Governor of Ontario

CHANCELLOR—R. G. IVEY, QC, LL.D.

CHAIRMAN OF THE BOARD OF GOVERNORS—Lt.-Col. D. B. WELDON, MC

PRESIDENT AND VICE-CHANCELLOR—G. E. HALL, AFC, MSA MD PhD *Tor.*, Hon. DSc *Laval*, Hon. LLD *Assum.*, *Qu.*, *Madr.* & *Tor.*, FRSCan

VICE-PRESIDENT—R. A. ALLEN, MA *Tor.*, PhD *Chic.*

REGISTRAR AND SECRETARY OF SENATE—HELEN M. B. ALLISON, MA *Minn.*

LIBRARIAN—J. J. TALMAN, PhD *Tor.*, FRSCan

COMPTROLLER AND SECRETARY OF BOARD OF GOVERNORS—R. B. WILLIS, MA, FCIS

DEANS—ARTS AND SCIENCE—F. STILING, BA *McM.*, AM PhD *Mich.*, MA, Principal of Univ. Coll., A. B. CONRON, DSO, PhD *Harv.*, MA, Principal of Middlesex Coll.; BUSINESS ADMINISTRATION—F. W. P. JONES, BA; ENGINEERING SCIENCE—Lt.-Col. R. M. DILLON, MC, BA SM *M.I.T.*; GRADUATE STUDIES—R. A. ALLEN, MA *Tor.*, PhD *Chic.*; LAW—Hon. I. C. RAND, BA Hon. DCL *Mt.All.*, LL.B. *Harv.*, Hon. LLD *Qu.*, *Dal.*, *New Br.*, *Tor.* & *Col.*; MEDICINE—J. B. COLLIP, CBE, MA PhD *Tor.*, MD *Alta.*, Hon. MD *Laval*, Hon. DSc *Alta.*, *Harv.* & *Oxon.*, Hon. LLD *Mamit.*, *Qu.*, *Alta.* & *McG.*, FRPCan, FRCP, FRSCan, FACP, FRS; MUSIC TEACHERS' COLL.—C. VON KUSTER, MusBac *Tor.*; NURSING—R. CATHERINE AIKIN, BA BN *McG.*, MA *Chic.* (Actg. Dean); DEAN OF MEN—T. L. HOSKIN, MA *Northwestern*; DEAN OF WOMEN—LEOLA E. NEAL, PhD *Tor.*

## TEACHING STAFF

[†=Part-Time]

### Astronomy, see Maths.

### Botany

Hickman, C. J., PhD *Birm.*  
McLarty, D. A., PhD *Col.*  
Wilson, D. G., PhD *Wis.*  
McKeen, W. E., PhD *Tor.*  
Cook, F. S., PhD *Tor.*  
Andreae, W. A., PhD *McG.*  
Richardson, L. T., PhD *Tor.*  
Minshall, W. H., PhD *McG.*  
1 Instr., 1 Preceptor, 7 Demrs.

### Business Administration

Jones, F. W. P., BA  
Thompson, W. A., MBA *Harv.*

Taylor, J. C., BA, FCA  
Ladd, D. R., DBA *Harv.*  
Ready, R. K., MBA DCS *Harv.*  
Wettlaufer, J. J., MBA  
Leighton, D. S. R., DBA *Harv.*  
Thain, D., DBA *Harv.*  
Nicholson, J. T., MBA *Harv.*

Prof., Assoc. Dean  
Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Assoc. Prof.  
Asst. Prof.  
Asst. Prof.

Wagh, W. R., BA  
5 Lectrs., 6 Instrs.

Asst. Prof.

### Chemistry

Pattison, F. L. M., PhD *Camb.* Prof.  
Gunton, J. A., MA *McM.*, PhD *Ill.*, FCIC (on leave) Prof.  
Burns, J. W., MSc *Qu.*, FCIC Prof.  
Martin, H., DSc *Lond.*, FRIC †Hon. Prof.  
Sivertz, C., BASc *Br.Col.*, MSc  
PhD *McG.* Prof.  
Bradley, D. C., PhD *Lond.* Prof.  
De Mayo, P., PhD *Lond.* Prof.  
Watson, J. K., PhD *Tor.* Assoc. Prof.  
Sukava, A. J., MSc *Mamit.*, PhD *McG.* Assoc. Prof.  
Howell, W. C., PhD Asst. Prof.  
King, J. F., PhD *New Br.* Asst. Prof.  
Carroll, K. K., PhD †Hon. Lectr.  
Miller, D. M., MSc *Alta.*, PhD *McG.* †Hon. Lectr.  
Spencer, E. Y., PhD *Tor.*, FCIC †Hon. Lectr.  
Thorn, G. D., PhD *McG.* †Hon. Lectr.  
3 Lectrs., 1 Preceptor, 6 Demrs.

\* Member of the Association of Universities of the British Commonwealth

**Classics**

Ralph, J. D., PhD *Chic.* W. Sherwood Fox Prof.  
 Pemberton, R. E. K., MA *Oxon.* Prof.  
 Raymond, A. E., MA *Tor.*, PhD *Chic.* Assoc. Prof.

1 Lectr.

**Economic and Political Science and Sociology**

Inman, M. K., BA *Acad.*, AM PhD *Harv.* Prof.  
 Mayo, H. B., DPhil *Oxon.* Prof.  
 Ivor, D., MA PhD *Lond.* Prof.  
 Reuber, G. L., AM PhD *Harv.* Assoc. Prof.  
 Eldon, W. D. R., PhD *Harv.* Asst. Prof.  
 Wonnacott, R. J., PhD *Harv.* Asst. Prof.  
 Lyon, P. V., DPhil *Oxon.* Asst. Prof.  
 Kelson, R. N., PhD *Duke* Asst. Prof.  
 Madden, J. J., PhD *Camb.* Asst. Prof.  
 1 Lectr., 2 Instrs.

**Engineering Science**

Dillon, Lt.-Col., R. M., MC, BA SM *M.I.T.* Prof.  
 Lauchland, L. S., MAsc *Tor.* Prof.  
 Kearns, J. L., BAsc *Tor.*, PhD *Iowa* Assoc. Prof.  
 Foreman, J. E. K., MME *Corn.* Assoc. Prof.  
 Olson, A. T., MSc *Birm.* Asst. Prof.  
 Poucher, M. P., DIC, MSc *Lond.* Asst. Prof.  
 Emmerson, G. S., MSc(Eng) *Lond.* Asst. Prof.  
 Bulani, W., PhD *McG.* Asst. Prof.  
 Stewart, J. W., MS *Mich.* Asst. Prof.  
 3 Lectrs., 6 Demrs.

**English**

MacKinnon, M. H. M., MA PhD *Tor.* Prof.  
 Conron, A. B., DSO, PhD *Harv.*, MA Prof.  
 Klinck, C. F., MA PhD *Col.* Prof.  
 Buckley, G. E., BA *Mt.All.*, AM *Col.* Assoc. Prof.  
 Atkinson, W. E. D., BA *Camb.*, PhD *Chic.* Asst. Prof.  
 Graham, J. W., MA PhD *Tor.* Asst. Prof.  
 Reidy, J., PhD *Lond.* Asst. Prof.  
 Stratford, P. C., DUParis Asst. Prof.  
 Woodman, R. G., PhD *Tor.* Asst. Prof.  
 Bandeen, Elisabeth, PhD *Radcliffe* Asst. Prof.  
 Bates, R. G. N., MA *Tor.* Asst. Prof.  
 Berry, H., PhD *Nebraska* Asst. Prof.  
 Hauset, D. R., PhD *Johns H.* Asst. Prof.  
 Reaney, J., PhD *Tor.* Asst. Prof.  
 Sanborn, C. E., PhD *Tor.* Asst. Prof.  
 Stiling, F., BA *McM.*, AM PhD *Mich.*, MA †Lectr.  
 3 Lectrs., 1 Asst.

**French, Italian and Spanish**

Torrens, R. W., AM *Harv.*, PhD *Corn.* Prof.  
 Collin, W. E., LèsL *Toulouse*, MA Prof.  
 Montgomery, F., DUParis, MA Assoc. Prof.  
 Shervill, R. N., PhD *N.Carolina* Assoc. Prof.  
 Metford, J. S., DUParis Asst. Prof.  
 Bennetton, N. A., PhD *Johns H.* Asst. Prof.  
 Casaubon, T. J., BA *Laval* Asst. Prof.  
 3 Lectrs., 3 Instrs., 1 Asst.

**Geography**

Pleva, E. G., MA PhD *Minn.* Prof.  
 Packer, R. W., MA *Camb.* Assoc. Prof.  
 Langtvet, O. P., CandPhil *Oslo* Asst. Prof.  
 4 Lectrs., 1 Preceptor, 7 Assts.

**Geology**

Reavely, G. H., MA Prof.  
 Suffel, G. H., PhD *Calif.* Assoc. Prof.  
 Dreimanis, A., MNatS *Latvia* Assoc. Prof.  
 Winder, C. G., PhD *Corn.* Assoc. Prof.  
 2 Lectrs., 1 Preceptor, 5 Demrs.

**Geophysics**

Uffen, R. J., MA *Tor.*, PhD Prof.  
 Beck, A. E., BSc *Lond.*, PhD *A.N.U.* Asst. Prof.  
 1 Demr., 2 Assts.

**German**

Kalbfleisch, H. K., MA *N.Y.*, PhD *Mich.* Prof.  
 Allen, R. A., MA *Tor.*, PhD *Chic.* †Lectr.  
 1 Lectr., 1 Instr.

**History**

Ferguson, W. K., PhD *Corn.*, I.L.D., FRSCan J. B. Smallman Memorial Prof.  
 Kerr, D. G. G., PhD *Lond.* Prof.  
 Thomas, H. M., AM PhD *Harv.* Prof.  
 Balderston, W., MA PhD *Corn.* Assoc. Prof.  
 Gwynne-Timothy, J. R. W., DPhil *Oxon.* Asst. Prof.  
 Stockdale, W. H., PhD *N.Y.* Asst. Prof.  
 Wilson, G. A., PhD *Tor.* Asst. Prof.  
 Maine, S. F., PhD *Chic.* †Lectr.  
 McLaughlin, J. P., PhD *Lond.* †Lectr.  
 Raymond, A. E., PhD *Chic.* †Lectr.  
 Talman, J. J., PhD *Tor.*, FRSCan †Lectr.  
 1 Lectr.

**Italian, see French****Journalism**

Wild, J. L., BA Prof.  
 Beattie, E. J., BA *Manit.*, BEd *Tor.* Asst. Prof.  
 7 Lectrs.†

**Law**

Rand, Hon. I. C., BA Hon. DCL *Mt.All.*, LLB *Harv.*, Hon. LL.D *Dal.*, *New Br.*, Qu., *Tor.* & *Col.* Prof.  
 Macdonald, R. S. J., BA *St.F.X.*, LLB *Dal.*, LLM *Harv.* Prof.  
 Mackay, R. S., LLB *Tor.*, LLM *Col.* Prof.  
 3 Lectrs.

**Library Science**

6 Lectrs.†

**Mathematics (Pure and Applied) and Astronomy**

Magee, G. R., MS PhD *Chic.* Prof.  
 Cole, R. H., MA PhD *Wis.* Prof.

Woods, A., MA *Qu.*  
 Cross, G., PhD *Br.Col.*  
 Sanders, J., PhD *Syr.*  
 Wehlau, W., PhD *Calif.*  
 Arnold, H. J., MA *Qu.*, PhD *Prin.*  
 2 Lectrs., 2 Instrs.

### Medicine, see below

### Music

von Kuster, C., MusBac *Tor.*  
 Cook, J., BMus *Durh.*, FRCO  
 Parlow, Kathleen  
 Rosé, A., BA  
 4 Lectrs.†

### Philosophy

Johnson, A. H., MA PhD *Tor.*, FRSCan Prof.  
 Bruce, J. A., PhD *Lond.* Assoc. Prof.  
 Davis, J. W., PhD *Boston* Asst. Prof.  
 Henry, W. C., PhD *Tor.* Asst. Prof.  
 Johnson, H. J., PhD *Chic.* Asst. Prof.  
 1 Lectr., 2 Instrs.

### Physical Education

L'Heureux, W. J., MA *Mich.* Prof.  
 Fairs, J. R., BSc AM *Col.* Assoc. Prof.  
 Berzins, Mrs. Elfrida M., MM *Latvia* Asst. Prof.  
 Yuhasz, M. S., MSc *Ill.* Asst. Prof.  
 Coffey, T. H., DPE *Harv.*, MD CM *Qu.* †Lectr.  
 Pillsworth, W. J., MA N. Y. †Lectr.  
 2 Lectrs., 3 Instrs.

### Physics

Allen, R. L., MA *Mt.All.* Prof.  
 Durnford, A. M. I. A. W., PhD *Tor.*  
 Brannen, E., PhD *McG.* Assoc. Prof.  
 Nicholls, R. W., PhD *Lond.* Assoc. Prof.  
 Blackwell, J. H., PhD Assoc. Prof.  
 Tull, E. H., MSc Asst. Prof.  
 Fraser, P. A., MSc *Wis.*, PhD Asst. Prof.  
 Hay, D. R., PhD *McG.* Asst. Prof.  
 5 Lectrs., 6 Demrs.

### Psychology

Turner, G., PhD *Tor.* Prof.  
 Neal, Leola E., PhD *Tor.* Assoc. Prof.  
 Wright, Mary, PhD *Tor.* Assoc. Prof.  
 Paul, J., PhD *Tor.* Asst. Prof.  
 Havelka, J., MA *Brno*, MSc *McG.*,  
 PhD *Milan* Asst. Prof.  
 Schnore, M. M., PhD *McG.* Asst. Prof.  
 Aharan, C. H., MA †Hon. Lectr.  
 5 Lectrs., 1 Asst.

### Russian

Iyumov, Mrs. Helen, BA *Moscow* Instr.  
 2 Instrs.†

### Secretarial Science

Gillespie, Mary, AM *Col.* Prof.  
 Chapman, Mrs. Elaine, BA Asst. Prof.

Waller, Mrs. Roma, AM *Col.* Asst. Prof.  
 1 Instr., 1 Asst.

### Spanish, see French

### Zoology

Brown, A. W. A., MBE, BScF MA  
 PhD *Tor.* Prof.  
 Battle, Helen, MA PhD *Tor.* Prof.  
 Judd, W. W., PhD *Tor.* Assoc. Prof.  
 Scott, D. M., PhD *McG.* Assoc. Prof.  
 Stinson, R. H., PhD *Tor.* Asst. Prof.  
 Bourns, T. K. R., MA *Br.Col.*,  
 PhD *Rutgers* Asst. Prof.  
 Kennedy, W. A., PhD *Tor.* †Hon. Prof.  
 Chefurka, W., PhD *Harv.*  
 (on leave) †Hon. Lectr.  
 Colhoun, E. H., PhD *Camb.* †Hon. Lectr.  
 Monro, H. A. U., MSc *McG.* †Hon. Lectr.  
 Lawrie, A. H., MA *Tor.* †Hon. Lectr.  
 Scott, D. P., MSc *McG.*, PhD *Br.Col.* †Hon. Lectr.  
 Tibbles, J. J., MSc PhD *Wis.* †Hon. Lectr.  
 1 Lectr., 8 Demrs.

## MEDICINE

### Anæsthesia

Spoerel, W. E. G. A., MD *Fran.*,  
 FRCPCan Asst. Prof.  
 4 Sr. Assocs., 7 Instrs.

### Anatomy

Skinner, H. A., MB *Tor.* Prof.  
 von Hochstetter, A. H. C., MD *Vienna* Assoc. Prof.  
 Bartelink, D. L., MD *Amst.* Res. Prof.  
 1 Lectr., 5 Instrs.

### Bacteriology and Immunology

Murray, R. G. E., MD CM *McG.*,  
 MA *Camb.* Prof.  
 Robinow, C. F., MD *Hamburg* Prof.  
 Campsall, E. W. R., MD CM *McG.* Asst. Prof.  
 Fitz-James, P. C., MD PhD Asst. Prof.  
 Hannay, C. L., PhD *Lond.* †Hon. Lectr.  
 2 Assts.

### Biochemistry

Rossiter, R. J., BSc *W.Aust.*, BCh DM  
 MA DPhil *Oxon.*, FRIC Prof.  
 Stewart, H. B., PhD *Tor.* & *Camb.* Assoc. Prof.  
 Strickland, K. P., PhD Asst. Prof.  
 Heagy, F. C., PhD Asst. Prof.  
 Spencer, E. Y., PhD *Tor.* †Hon. Lectr.  
 Derrick, J. B. D., PhD †Hon. Lectr.  
 Beer, C. T., DPhil *Oxon.*, FRIC †Hon. Lectr.  
 Carroll, K. K., MA *Tor.*, PhD †Hon. Lectr.  
 1 Lectr., 4 Assts.

### Biophysics

Burton, A. C., PhD *Tor.* Prof.  
 Inch, W. R., PhD Hon. Lectr.  
 1 Asst.

**Medical Ethics**

Robinson, J. B. C., MD MSc †Hon. Lectr.  
Sessl. Lectr.

**Medical Jurisprudence**

Ross, C. J. F. Lectr.

**Medical Research**

Collip, J. B., CBE, MA PhD *Tor.*, MD *Alta.*,  
Hon. MD *Laval*, Hon. DSc *Alta.*, *Harv.*  
& *Oxon.*, Hon. LLD *Manit.*, *Qu.*, *Alta.*  
& *McG.*, FRCPCan, FRCP, FRSCan,  
FACP, FRS Prof., Hd. of Dept.  
Noble, R. L., MD *Tor.*, PhD DSc *Lond.*  
Prof., Assoc. Hd. of Dept.  
Paterson, J. C., MD BSc(Med) *Tor.* Prof.  
Murray, E. G. D., OBE, MA *Camb.*,  
FRCS Guest Prof.  
Beer, C. T., DPhil *Oxon.*, FRIC Assoc. Prof.  
Carroll, K. K., MA *Tor.*, PhD Assoc. Prof.  
Plunkett, E. R., MD PhD Asst. Prof.  
Swartz, D. P., MD MSc, FRCSCan Asst. Prof.  
Rossiter, R. J., BSc *W.Aust.*, DM MA  
DPhil *Oxon.*, FRIC Hon. Lectr.  
Stevenson, J. A. F., MA MD CM *McG.*  
Hon. Lectr.  
Rathbun, J. C., MD *Tor.*, FRCPCan  
Hon. Lectr.  
Taylor, N. B. G., MD *Tor.*, PhD †Hon. Lectr.  
1 Lectr., 1 Asst.

**Medicine**

Brien, F. S., BA MB *Tor.*, FRCPCan Prof.  
Manning, G. W., MD MA PhD *Tor.*,  
FRCPCan Assoc. Prof.  
Geddes, J. H., MD Asst. Prof.  
Lewis, J. A., MD Asst. Prof.  
Sharpe, W. C., MB *Tor.* Asst. Prof.  
Bartram, E. A., MD Asst. Prof.  
Hession, B. L., MD, FRCPCan Asst. Prof.  
6 Assocs., 26 Instrs., 1 Lectr., 6 Sr. Teach-  
ing Fellows, 3 Res. Assts.

**Microscopic Anatomy**

Bart, M. L., MSc MD Prof.  
Buck, R. C., MD PhD Assoc. Prof.  
Robinow, C. F., MD *Hamburg* Hon. Lectr.  
1 Lectr., 1 Instr., 4 Res. Assts.

**Nursing**

Atkin, Catherine, BA BN *McG.*, MA *Chic.*  
Actg. Dean  
McDowell, Edith M., BS AM *Col.* Prof.  
Dix, Dorothy, BScN Instr.  
Hudson, Marie, BSc *Col.* Instr.  
Lounsborough, Dorothy, MA *Col.*, BScN Instr.  
Nevitt, Joyce, BScN *McM.*, DPHN *Tor.*  
18 Lectrs.†

**Obstetrics and Gynaecology**

Kinch, R. A. H., MB BS *Lond.*, FRCSCan Prof.  
Walters, J. H., BA MD, FRCSCan Asst. Prof.  
3 Sr. Assocs., 3 Instrs., 4 Sr. Teaching Fellows

**Ophthalmology**

Dyson, C., MD DipOph *McG.* Asst. Prof.  
Thompson, C. A., BA MD CM *McG.* Asst. Prof.  
1 Sr. Assoc., 1 Instr.

**Otology, Rhinology and Laryngology**

Greenway, R. E., MD, FRCSCan Asst. Prof.  
1 Sr. Assoc., 4 Instrs.

**Pædiatrics**

Rathbun, J. C., MD *Tor.*, FRCPCan Prof.  
Campbell, Mrs. Margaret K. P., MD *Tor.*  
Asst. Prof.  
Denison, A. G., MD Asst. Prof.  
1 Sr. Assoc., 1 Lectr., 4 Assts.

**Pathological Chemistry**

Neufeld, A. H., MSc PhD *Manit.*, MD  
CM *McG.*, FCIC Prof.  
Pearce, R. H., PhD Assoc. Prof.  
1 Instr., 4 Res. Assts.

**Pathology**

Fisher, J. H., MSc MD, FRCPCan Prof.  
Smout, M. S., MD Asst. Prof.  
3 Lectrs., 1 Sr. Fellow

**Pharmacology**

Gowdey, C. W., DPhil *Oxon.*, MSc Prof.  
2 Instrs., 1 Demr.

**Physical Medicine and Rehabilitation**

Coffey, T. H., DPE *Harv.*, MD CM *Qu.* Prof.  
1 Lectr.

**Physiology**

Stevenson, J. A. F., MA MD CM *McG.* Prof.  
Stavraky, G. W., MD *Odessa*, MSc MD  
CM *McG.* Prof.  
Noble, R. L., MD *Tor.*, DSc PhD *Lond.*  
Hon. Lectr.

Manning, G. W., MD PhD *Tor.*,  
FRCPCan Hon. Lectr.  
4 Lectrs., 5 Res. Assts., 1 Demr.

**Psychiatry and Preventive Medicine**

Hobbs, G. E., BA MD *Tor.*, MPH *Mich.*  
Michael Francis Fallon Prof.  
Buck, Carol, DPH *Lond.*, MD PhD Assoc. Prof.  
3 Sr. Assocs., 3 Lectrs., 14 Instrs., 2  
Demrs., 3 Res. Assts.

**Radiology**

Smith, I. H., MD MSc, FRCS Assoc. Prof.  
Copestake, G. G., BA *Camb.*, DMRD *Edin.*  
Asst. Prof.  
2 Sr. Assocs., 10 Instrs., 1 Sr. Teaching Fellow

**Surgery**

McLachlin, A. D., DPhil *Oxon.*, MS *Tor.*,  
MD DSc, FRCS, FRCSCan Prof.



Grace, A. J., MA BM BCh *Oxon.*, FRCS,  
FRCSCan, FACS Assoc. Prof.  
Ross, C. C., OBE, MD *Manit.*, FRCSEd  
Asst. Prof.  
Callaghan, V. A., MD, FACS Asst. Prof.

Kennedy, J. C., MD, FRCSCan Asst. Prof.  
Drake, C. G., MD MSc, FRCSCan Asst. Prof.  
McAninch, L. N., MD, FRCSCan, FACS  
Asst. Prof.  
1 Sr. Assoc., 9 Instrs. (Surg.)

## ADMINISTRATIVE AND OTHER STAFF

Dir. of Univ. Health Services: R. J. Bowen,  
BA MD. Dir. of Extension & Summer Sch.  
Dept.: S. F. Maine, MA BD *Tor.*, PhD *Chic.*  
Dir. of French-English Summer Sch. at Trois-  
Pistoles, Que.: T. J. Casaubon, BA *Laval*. Dirs.

of Placement: N. M. Armstrong, BA (Sch. of  
Bus. Admin.), T. L. Hoskin, MA *Northwestern*.  
Warden of Spencer Hall: Mrs. Dorothy Struckett.  
Warden of Medway Hall: Hon. M. Gregg, VC.

## AFFILIATED INSTITUTIONS

HURON COLLEGE OF ARTS, London, Ont.  
(Anglican; founded 1863). Principal and Prof.  
of Religious Knowledge—Rev. W. R. Coleman,  
MA *Tor.*, DD *Wychiffe (Tor.)*. 21 other teachers.  
Provides courses in Anglican Theol. as well as in  
Arts. For men and women.

ST. PETER'S SEMINARY AND CHRIST THE KING  
COLLEGE OF ARTS, London, Ont. (R.C.; founded  
1912, affiliated 1923). Rector—Mgr. A. P.

Mahoney, LLD; Dean—Rev. L. A. Wemple,  
PhL *Pontif. Athen. Angelicum*, BA. 27 other Profs.  
and Instrs. in Arts subjects. For men only.

URSULINE COLLEGE OF ARTS, London, Ont.  
(R.C.; affiliated in 1919). Dean and Prof. of  
English—Mother Marie, PhD *Tor.* 20 other  
Profs. and Instrs. in Arts subjects. For women  
only.

## GENERAL INFORMATION

Incorporated by an act of the provincial legis-  
lature in 1878 as the 'Western University of  
London, Ontario', in connexion with the Church  
of England, the univ. has become, under the pro-  
visions of amending acts of 1908, 1923 and 1955,  
absolutely undenominational in its govt., which  
is under provincial and municipal control. It  
consists of 7 divs. of the univ. proper—the fac. of  
arts and sci. (University Coll., Middlesex Coll.,  
Music Teachers' Coll.), the fac. of grad. studies,  
the fac. of eng. sci., the fac. of law, the fac. of  
med., the sch. of nursing and the sch. of bus.  
admin.—as well as the affiliated instns. listed  
above.

CONSTITUTION. The univ. senate is responsible  
for academic affairs, while the bd. of governors  
controls financial affairs. The bd. of governors  
is partly apptd. by the lt.-governor-in-council,  
partly by the London city council, partly by the  
univ., and partly elected. The senate is partly  
univ. admin. & fac. members, *ex officio*; partly  
elected by fac. members, secondary sch. prin-  
cipals and univ. grads.; and partly apptd. by out-  
side bodies, e.g. bds. of educn. and near-by city  
and county councils. The president and vice-  
chancellor is chairman of the senate and a member  
of the bd. of governors.

INCOME (1958-59), \$5,122,450, incl. \$853,554  
for res. and \$552,647 for ancillary enterprises.  
Principal sources (excl. ancillary enterprises):  
federal govt., 21.3 per cent.; provincial govt.,  
20.7 per cent.; municipal, 1.7 per cent.; res.

grants, 19.1 per cent.; other gifts and grants, 0.8  
per cent.; student fees, 31.2 per cent.; endow-  
ment income, 1.3 per cent.; other sources, 4.7  
per cent.

FACULTIES AND SCHOOLS. See p. 344.

LIBRARIES of univ. proper: 255,000 vols. plus  
several thousand pamphlets. Barnett collection  
contains many rarities dealing *inter alia* with  
Canadian and American hist.

ADMISSION. See Appendix II. Admission to  
the med. sch. is usually not open to non-Canadian  
students because of limited facilities.

FIRST DEGREES. 3 yrs. (4 for hon.) from sr.  
matric.—BA, BSc; 4 yrs.—BESc; 5 yrs.—  
LLB, BScN (nursing); 6 yrs.—MD.

Hons. courses represent both gen. and sp.  
educn. as well as higher standards. Hons. may  
be taken in biol., bus. admin., chem., classics,  
econ., Engl., French, geog., geol., German, hist.,  
journalism, Latin, maths. (pure, appl., statistical,  
astronomical, actuarial), mod. langs., philos., phys.  
& health educn., phys. (general, geophys., radio  
phys. & electronics), pol. sci., psychol., sociol.,  
and combinations of these subjs. Univ. and  
Middlesex Colls. offer all except bus. admin.,  
which is available in a sep. sch.; St. Peter's Coll.  
offers hon. philos.; College of Christ the King  
offers a few arts hon. courses; Ursuline Coll.  
offers most of the arts hon. courses but none in  
natural sci.; Huron Coll. offers some hon. work.

Attendance on part of the classes (other than

med. and sci.) may be dispensed with by permission of the senate, but all students must have attended lectures in the univ. for the equivalent of 2 yrs. before they graduate.

**HIGHER DEGREES.** 1 yr. from hons. BA or BSc, or 2 yrs. from ord. BA or BSc—MA, MSc, MBA, MScN, LL.M.; 5 yrs. of clin. & grad. study—MClSc; 3 yrs. of grad. work in arts, sci. or med. depts.—PhD.

The MA may be taken in classics, econ. & pol. sci., Engl., geog., German, Hebrew, hist., maths., philos., psychol., romance langs. The MSc may be taken in bacteriol., biochem., biophys., bot., chem., geol., geophys., med. res., microscopic anat., pharm., phys., zool. The PhD may be taken in almost all subjects in which master's degrees are available.

**HONORARY DEGREES.** DCL, LLD, DSc, DLitt, MusD, DD.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Bus. admin., journalism, pub. health nursing (DPHN), nursing educn. (DNE), nursing service admin. (DNSA), each course 1 yr. for grads. in respective fields; music (pedagogy), 2-yr. course in Music Teachers' Coll.

**FEES.** Annual: arts and sci., \$425-\$465; bus. admin., \$490; law, \$500; engin. sci., \$550; med., \$675; nursing, \$465; grad. studies, \$340 (arts and sci.), \$490 (bus. admin.).

**LABORATORY.** J. B. Collip med. res. lab.

**TEACHING HOSPITALS** in London: Victoria, St. Joseph's, St. Mary's, War Memorial Children's, Bethesda, Ontario, Beck Memorial San., Westminster (Veterans).

**ACADEMIC YEAR.** Sept. 12-May 15 (approx.). Year varies from 32 to 34 wks. among the various facs. and schs.

**CORRESPONDENCE AND EXTENSION WORK** in winter sessions in some general course subjs., offered mainly for teachers and other adult students, either as credit courses towards degrees or as non-credit cultural courses. No degree may be earned entirely in the extension and correspondence div., without attendance at winter or summer sessions. Adult educn. is under the control of the summer sch., correspondence & extension dept.

The **SUMMER SCHOOLS** (approx. 1500 students) offer a 7-wk. course at Trois-Pistoles, Que., in

French for English-speaking students, and in English for French-speaking students; and a 6-wk. course at University Coll. in standard arts & sci. subjs. of the gen. course (for BA, BSc) as well as hons. work in Engl., geog. and maths. for teachers with degrees who are working for certain teaching certs.

2 summer courses, each of 1 month's duration, in marketing and in management trg. at executive level, for about 200 men.

**STUDENT RESIDENCES.** Spencer Hall, London Township (for 104 women), Medway Hall (for 300 men), Brescia Hall (100 Ursuline Coll. women), Huron Coll. (250 men and women in various residences), Christ the King Coll. residence for 150 men, fraternity houses and sorority houses for men and women above the freshman level; the United Church residences accomm. 65 men and women, Newman House 15 men, and Lutheran Student Centre 10 men.

The **ALUMNI ASSOCIATION** assumes some responsibility for the placement of grads. In addition, the dean of men supervises a placement service for summer and for permanent employment, and the sch. of bus. admin. has its own placement bureau.

The **DEPT. OF MILITARY STUDIES** offers trg. in the univ. naval trg. div., or the R.C.A.F. univ. reserve trg. plan or the Canadian officers' trg. corps.

The **UNIVERSITY HEALTH SERVICES** provide free med. service for students daily, at the campus health centre, and the univ. physician and his staff are on call to visit students in their residences. A group health insurance fee pays for special services.

**PUBLICATIONS.** *Arts and Science Announcement* (May); *Med. School Announcement* (Aug.); *The Business Quarterly*; *Medical Journal*; *Univ. Gazette*, once a week during term; *Occidentalia* (May); *Admissions Handbook* (April); *School of Business Admin. Announcement* (March); *Fac. of Law Announcement* (May); *Fac. of Graduate Studies Announcement* (May); *Directory & Student Handbook* (Nov.); *Folio* (student literary publicn., Dec. and April); *Freshmen Handbook* (Sept.); *Alumni Gazette* (9 times a year).

Hists.: *These Sixty Years* (1938); *Western, 1878-1933*. J. J. & R. D. Talman (University, 1953).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** City of London (Ont.), \$75,000. *For res.*: Nat. Res. Council, \$341,032; Defence Res. Bd., \$74,570; Nat. Health Grants Admin., \$42,971; Nat. Cancer Inst., \$91,979; Ontario Heart Foundation, \$23,250; misc., \$34,752. *For bldg. purposes*: Richard Ivey Foundation, \$110,000; Canada Council, \$525,000; business and industry,

\$556,960; other charitable foundations, \$164,750. *For bursaries*: Atkinson Charitable Foundation, \$106,644; misc., \$32,200.

(Total value of *all* benefactions received: \$5,232,775 approx.).

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: Medway Hall residence for 300 men;

addn. to Stevenson Hall admin. bldg. *Approaching completion*: Middlesex (arts) Coll., Kresge sch. of nursing, Niblett fac. of law bldg.

**RETIREMENTS.** Dr. J. A. Blezard (anæsthesia); Prof. H. E. Jenkin (romance langs., dir. of Trois-Pistoles summer sch.).

**RESIGNATIONS.** B. Brainerd (maths.); Dr. P. F. J. New (radiol.).

**DEATHS.** Lt.-Col. G. Ingram (chairman of bd. of governors of univ.); Prof. A. R. Walker (hd. of bot. dept.); Dr. H. A. DeLuca (assoc. prof. of biochem.); Dr. P. M. Andrus (former prof. of radiol.).

**HONORARY DEGREES.** *DCL*—J. G. Diefenbaker, prime minister of Canada; J. J. Robinette, lawyer. *LLD*—J. K. Mackay, lt.-gov. of Ontario, official visitor of the univ.; W. H. Johns, pres., Alta.; A. J. MacQueen, moderator, United Church of Canada; S. J. Rendall, supt. of secondary educn., Ontario Dept. of Educn.; R. L. Hearn and J. A. Vance, engineers. *DSc*—H. Gaudefroy, Montr., K. F. Tupper, engineer.

\* All other part-time students are intra-mural or in attendance at summer session. The external students are not included in the part-time figures.

## Statistics

### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>	<i>External*</i>
Men . . .	2984	1069	380
Women . . .	1127	585	181

Total	4111	1654	561
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Distribution by Faculties. *Arts & sci.*, 5461; *bus. admin.*, 125; *law*, 35; *med.*, 234; *nursing*, 146; *grad. studies*, 325. Total: 6326.

*Included in the figures above are* :—

New admissions, 2254.

Postgraduate students, 325.

Students from other countries, 136 (incl. 41 from U.S.A.).

**DEGREES AWARDED (1958-59).** *Arts & sci.*: BA, 506; BA (hons.), 101; BSc (hons.), 33; BSc (hons.), 10; BD, 3. *Bus. admin.*: BA (hons.), 83. *Grad. studies*: PhD, 7; MSc, 19; MBA, 78; MA, 20; LLM, nil; MCIsc, nil; DD (by exam.), nil. *Med.*: MD, 51. *Nursing*: BScN, 23.

**DIPLOMAS AWARDED (1958-59).** *Bus. admin.*, 11; *journalism*, 10; *music*, 11; *nursing*, 110.

# CEYLON

**University of Ceylon (p. 352)**

# UNIVERSITY OF CEYLON§

Founded 1942 by incorporation of Ceylon Medical College (1870) and  
Ceylon University College (1921)

Postal Address (Registrar) : Peradeniya, Ceylon

Cables and Telegrams : University, Peradeniya

Telephones—

Colombo : Colombo 8349

Peradeniya : University Exchange Kandy

CHANCELLOR—H.E. THE GOVERNOR-GENERAL OF CEYLON

PRO-CHANCELLOR—THE MINISTER OF EDUCATION

VICE-CHANCELLOR—Sir NICHOLAS ATTYGALLE, LMS Hon. DSc, FRCS, FRCOG

REGISTRAR—W. A. JAYAWARDANA, MA

LIBRARIAN—S. C. BLOK, BA *Lond.*, FLA

BURSAR—N. ALWIS

## TEACHING STAFF

[† = Part-Time ; \* = Hd. of Dept.]

### Agriculture

Chandraratne, M. F., BSc PhD *Lond.* \*Prof.  
Williams, D. W., BSc *Ohio State*, MSc *Ill.*,  
LLD *Austin Coll.*, IngAgric *Saltillo* Prof.  
Baptist, B. A., BSc *Lond.*, PhD *Camb.*  
(Agric. Zool.) Lectr.  
Wikkremanayake, V. E. A., BSc(Agr) *Bom.*,  
MSA *Tor.* (Agric. Engin.) Lectr.  
Kalpage, F. S. C. P., PhD *Lond.*, DipAgricChem  
*Leeds*, BSc (Agric. Chem.) Lectr.  
de Silva, P. L. G., BVSc  
(on leave) (Animal Husb. & Vet. Hyg.) Lectr.  
Seneviratne, S. T., MScAgron PhD *Calif.*,  
BSc(Agric) (Agron.) Lectr.  
Jogaratnam, T., MSA *Tor.*, BA  
(Agric. Econ. & Farm Managmt.) Lectr.  
Samarawira, I. St. E., MSA *Penn.State*,  
MSc *Penn.*, PhD *Manit.*, BSc(Agric)  
(Agric. Bot.) Lectr.  
Peiris, J. W. L., DIC, BSc PhD *Lond.*  
(Plant Pathol.) †Lectr.  
Fernando, H. E., MS PhD *Ill.*, BSc  
(Agric. Zool.) †Lectr.  
Appadurai, R. R., MS *Texas Agric.*,  
BSc(Agric) (on leave) (Agron.) Asst. Lectr.  
Karunajeewa, H., BSc(Agric) Asst. Lectr.

**Anatomy, see Medicine**

### Archæology

Paranavitane, S., CBE, PhD *Ley.*, Hon. DLitt  
Prof.  
Prematilake, P. L., BA Asst. Lectr.

### Botany

de Silva, B. L. T., MSc PhD *Lond.* \*Prof.  
Abeywickrama, B. A., BSc *Lond.*,  
PhD *Camb.* Lectr.  
Dasanayake, M. D., MA *Camb.*, PhD *Manc.*,  
BSc Lectr.  
Thambiah, M. S., PhD *Lond.*, BSc Lectr.  
Pethiyagoda, U., BSc PhD *Lond.* Asst. Lectr.  
De Fonseka, R. N., BSc Asst. Lectr.  
† Temp. Asst. Lectr.

### Chemistry

Fonseka, E. L., MSc PhD *Lond.*, FRIC \*Prof.  
Sultan Bawa, M. U. S., DIC, PhD *Lond.*,  
BSc *Lond. & Ceyl.* Lectr.  
Devanathan, M. A. V., DIC, PhD *Lond.*,  
BSc Lectr.  
Siriwardena, P. P. G. L., PhD *Camb.*, BSc Lectr.  
Wannigama, G. P., PhD *Camb.*, BSc Lectr.  
Pereira, Mrs. W. P. Daisy, MSc  
(on leave) Asst. Lectr.  
Ramakrishna, R. S., BSc (on leave) Asst. Lectr.  
Rodrigo, R. G. A., BSc Asst. Lectr.  
Ariyaratne, J. K. P., BSc Asst. Lectr.  
Selvaratnam, M., BSc Asst. Lectr.

### Classics

Amerasinghe, C. W., BA *Lond.*, MA *Camb.* \*Prof.  
Wickremanayake, G. H., BA *Lond.*,  
MA *Oxon.* Lectr.  
Peris, M., BA Asst. Lectr.

§ Member of the Association of Universities of the British Commonwealth

**Economics**

Jayasuriya, F. R., BA BSc(Econ) <i>Lond.</i>	Lectr., Actg. Hd. of Dept.
Gunasekera, H. A. de S., MSc(Econ) PhD <i>Lond.</i> , BA	Lectr.
Weerawardene, I. D. S., PhD <i>Lond.</i> , BA	Lectr.
Vandendriessen, I. H., PhD <i>Lond.</i> , BA(Econ)	Lectr.
Indraratna, A. D. V. de S., DipCom MCom <i>Birm.</i> , BA	Lectr.
Wilson, A. J., PhD <i>Lond.</i> , BA	Lectr.
Rajaratnam, S., BA	Asst. Lectr.
Gunasekera, V. A., BA	Asst. Lectr.
Jayasinghe, K. H., BA	Asst. Lectr.
Moldrich, B. C., BA	Asst. Lectr.

**Education**

Jayasuriya, J. E., MA <i>Lond.</i>	*Prof.
Nesiah, K., MA <i>Madr.</i> , TD <i>Lond.</i>	Lectr.
Jayasekera, U. D., MA <i>Lond.</i>	Lectr.
Wickremasooriya, Miss Chitra, BA <i>Lond.</i> , MA	Lectr.
Thaninayagam, Rev. Fr. X. S., MA MLitt <i>Ann.</i> , DD <i>Rome</i> , PhD <i>Lond.</i>	Lectr.
Ruberu, T. R. A., BSc (on leave)	Asst. Lectr.
Mutulingam, S., BSc (on leave)	Asst. Lectr.
Udugama, P. P., MA <i>Lond.</i> & <i>Calc.</i> , BA	Asst. Lectr.
Karunanandan, A., BSc <i>Madr.</i> , MA <i>Louisville</i>	Visual Aids Officer

**Engineering, see below****English**

Passé, H. A., BA PhD <i>Lond.</i>	*Prof.
de Souza, A. T. A., BA <i>Lond.</i>	Lectr.
Halpe, K. A. C. G., BA (on leave)	Asst. Lectr.
De Abrew, K., BA	Asst. Lectr.

**Geography**

Kularatnam, K., MA PhD <i>Lond.</i> , DU <i>Paris</i> , DipGeog <i>Madr.</i>	*Prof.
Thambyahpillai, G. G. R., MA <i>Calif.</i> , PhD <i>Camb.</i> , BA, FRMetS	Asst. Lectr.
Panditaratne, B. L., MS <i>Phillippines</i> , BA (on leave)	Asst. Lectr.
Dias, H. D., BA <i>Camb.</i> (on leave)	Asst. Lectr.
Fonseka, H. N. C., BA	Asst. Lectr.
Gunawardene, Miss K. A., BA	Asst. Lectr.
Selvanayagam, P., BA	Asst. Lectr.

**History**

.....	Prof.
LaBrooy, W. J. F., BA <i>Lond.</i>	
Pinto, Rev. Fr. S. I., BA <i>Lond.</i> , MA <i>Oxon.</i> , BD BPh <i>Rome</i>	Lectr.
Sinha, D. P., BA <i>Calc.</i> , MA PhD <i>Lond.</i>	Lectr.
Vimalananda, T., MA <i>Calc.</i> , PhD <i>Lond.</i>	Lectr.
Perera, L. S., BA PhD	Lectr.
Gunawardena, K. W., PhD <i>Lond.</i> , BA	Lectr.
Arsaratnam, S., PhD <i>Lond.</i> , BA (on leave)	Lectr.
Kiribamune, Mrs. S., BA PhD <i>Lond.</i>	Lectr.

N

de Silva, K. M., BA (on leave)	Asst. Lectr.
Wijetunge, W. M. K., BA	Asst. Lectr.
Kodikara, S. U., BA	Asst. Lectr.
Bastiampillai, B. E. St. J., BA	Asst. Lectr.
Abeyasinghe, T. B. H., BA	Asst. Lectr.

**Law**

Nadaraja, T., MA <i>Camb.</i>	*Prof.
Ahlip, B. C., LLB <i>Lond.</i>	Lectr.
Goonasekera, R. K. W., BCL <i>Oxon.</i> , LLB	Lectr.
Murugasampillai, V. A., LLB	Asst. Lectr.
Sanmuganathan, M., BA <i>Oxon.</i> (on leave)	Asst. Lectr.
Udurawana, M. A., LLB	†Lectr.
Amerasinghe, A. R. B., LLB	Asst. Lectr.

**Mathematics**

Nadaraser, S., MA <i>Camb.</i> , BSc <i>Lond.</i>	
.....	Reader, Actg. Hd. of Dept.
Kanagasabapathy, P., BA <i>Camb.</i> , MSc	Lectr.
Amerasekera, D. V. A. S., MA <i>Camb.</i> , BSc <i>Lond.</i>	Lectr.
Gangadharan, K. S., BA PhD <i>Camb.</i> , BSc	Lectr.
.....	Lectr.
Kulatilaka, C. R., MA <i>Camb.</i> , BSc	Lectr.
Joseph, V., BSc PhD <i>Lond.</i>	Lectr.
Epasinghe, P. W., BSc	Asst. Lectr.
Fernando, G. B. A., BSc	Asst. Lectr.
Tharmaratnam, V., BSc	Asst. Lectr.

**Medicine, see below****Modern Languages (Western)**

Ravilly, G., LèsL. Dipl'd' ÉtSup <i>Paris</i>	Lectr.
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**Pali and Buddhist Civilization**

Jayawickrama, N. A., BA PhD <i>Lond.</i> (on leave)	Prof.
Dhirasekera, J. D., BA	Lectr.
Pachow, W., BA <i>Shanghai</i> , PhD <i>Bom.</i> , DiplSino-IndianStudies <i>VB.</i>	Lectr.
Karunaratne, W. S., PhD <i>Lond.</i> , BA	Lectr.
de Silva, Mrs. L., BA	Asst. Lectr.

**Philosophy**

.....	Prof.
Mathiaparanam, Miss Kanmalar, MA <i>Madr.</i>	
.....	Lectr., Actg. Hd. of Dept.
Sarkar, A. K., MA PhD <i>Patna</i> (on leave)	Lectr.
Jayatileke, K. N., MA <i>Camb.</i> , BA <i>Lond.</i> & <i>Ceyl.</i> (on leave)	Lectr.
Mendis, B., BLitt <i>Oxon.</i> , BA <i>Lond.</i> & <i>Ceyl.</i>	Lectr.
Hingert, H. B., BA (on leave)	Asst. Lectr.

**Physics**

Mailvaganam, A. W., OBE, MA PhD <i>Camb.</i> , BSc <i>Lond.</i>	*Prof.
Appapillai, V., BSc PhD <i>Lond.</i>	Reader
Baliga, S. P., MA <i>Madr.</i>	Reader
Muttucumarana, T. de S., DIC, BSc PhD <i>Lond.</i>	Lectr.

Kannangara, M. L. T., PhD *Manc.*, BSc Lectr.  
 Thambyahpillai, T., PhD *Manc.*, BSc Lectr.  
 Dissanaikie, G. A., PhD *Camb.*, BSc Lectr.  
 Dahanayake, C., PhD *Brist.*, BSc Lectr.  
 Fernando, P. C. B., BSc PhD *Lond.* Asst. Lectr.  
 Kunaratnam, K., BSc Asst. Lectr.  
 Jayaratne, O. W., BSc Asst. Lectr.

### Sanskrit

Wijesekera, O. H. de A., MA PhD *Lond.*,  
 DipIOS *Sch. of O. & A. Studies (Lond.)*  
 Tilakasiri, J., PhD *Lond.*, BA Lectr.  
 Jayasuriya, M. H. F., DU *Paris*, BA Lectr.  
 Gunesinghe, B. A. S., DU *Paris*, BA Lectr.  
 Kurukkal, K. K., MA Asst. Lectr.

### Sinhalese

Hettiaratchi, D. E., BA PhD *Lond.*, MA  
 PhD *Calc.* (on leave) \*Prof.  
 Saratchandra, E. R., MA PhD *Lond.* Prof.  
 Ariyapala, M. B., BA PhD *Lond.* Lectr.  
 Wijayarathne, D. J., BA PhD *Lond.*  
 (on leave) Lectr.  
 Fernando, P. E. E., MA PhD *Lond.* Lectr.  
 Sri Rammandala, M., MA PhD *Lond.* Lectr.  
 Kulasuriya, A. S., DU *Paris*, BA Lectr.  
 Silva, M. H. P., BA *Lond.*, MA  
 (on leave) Asst. Lectr.  
 De Silva, M. W. S., MA *Lond.*, BA Asst. Lectr.  
 De Saram, D. D., MA *Lond.* Asst. Lectr.  
 Rajakaruna, M. A. D. A., BA Asst. Lectr.  
 Wijayawardena, G. D., BA Asst. Lectr.

### Sociology

Tambiah, S. J., PhD *Corn.*, BA Lectr.  
 Jayasuriya, D. L., BA *Syd.* (on leave) Asst. Lectr.  
 Obeysekera, G., BA Asst. Lectr.  
 1 Temp. Asst. Lectr.

### Tamil

Kanapathipillai, K., BA PhD *Lond.*,  
 Vidvan *Annam.* \*Prof.  
 Chelvanayakam, V., BA *Lond.*,  
 MA *Annam.* Lectr.  
 Vithiananthan, S., PhD *Lond.*, MA Lectr.  
 Sathasivam, A., DPhil *Oxon.*, MA Lectr.  
 Thananjayarajasingham, S., BA  
 (on leave) Asst. Lectr.  
 Velupillai, A., BA Asst. Lectr.

### Veterinary Science

McGaughey, C. A., MA *Camb.*, MSc  
 DVSM *Manc.* (on leave) \*Prof.  
 Brito-Babapulle, L. A. P., BSc(VetSc) *Lond.*,  
 DTVM *Edin.*  
 (Compar. Anat. & Vet. Pharmacodynamics) Lectr.  
 Seneviratna, P., PhD *Lond.*, BVSc *Madr.*  
 (Vet. Med. & Parasitol.) Lectr.  
 Bibile, Prof. S. W., PhD *Edin.*, MB BS  
 (Pharmacol.) Lectr.

Kottegoda, S. R., DPhil *Oxon.*, BSc *Lond.*,  
 MB BS (Pharmacol.) Lectr.  
 Wijewanta, E. A., BVSc  
 (on leave) (Vet. Pathol. & Bacteriol.)  
 Lectr.

de Silva, P. L. G., BVSc  
 (on leave) (Animal Husb.) Lectr.  
 Kodituwakku, G. E., BVSc  
 (on leave) (Clin. Vet. Surg.) Lectr.  
 Fernando, S. T., BVSc  
 (on leave) (Vet. Parasitol., Materia Medica  
 & Therapeutics) Asst. Lectr.  
 Fernando, S. D. A., BVSc  
 (on leave) Asst. Lectr.

### Visiting Lecturers

Seneviratne, D. (Vet. Pub. Health)  
 Jayasuriya, D. J. C., BVSc (Animal Management)  
 Jeganathan, P., BSc(VetSc) *Syd.*,  
 DTVM *Edin.* (Animal Husb.)  
 1 Temp. Asst. Lectr.

### Zoology

Fernando, W., BSc PhD *Lond.* \*Prof.  
 Crusz, H., BSc PhD *Lond.* Lectr.  
 Abeygunawardana, Augusta M. D., BSc  
 Asst. Lectr.  
 Costa, H. H., BSc Asst. Lectr.  
 Arudpragasam, K. D., BSc Asst. Lectr.

## DENTISTRY

### Anæsthetics

Vanniasingham, T. W., MB BS, FFARCS  
 Visiting Lectr.

### Anatomy and Histology

Waas, M. J., PhD *Manc.*, LMS  
 (Gen. & Dent. Anat.) Prof.  
 Jayawardene, F. L. W., PhD *Edin.*, MB BS  
 (Gen. Anat.) Lectr.

### Bacteriology

Chapman, T. E. D., PhD DipBact *Lond.*,  
 MB BS \*Prof.

### Dental Surgery

Dissanayake, S. B., BDS, FDSRCS  
 (also Orthodont.) \*Prof.  
 Bartlett, G. C., MB BS, FDSRCS Lectr.  
 Tillekeratne, L., DSc *Penn.*, LDS Asst. Lectr.  
 Balendra, W., LMS, FDSRCS Visiting Lectr.  
 Fernando, E. P., BDS Demr.

### Medicine, General

Obeyesekera, H. I., MD *Lond.*, MB BS, MRCP  
 Visiting Lectr.  
 Wickremasinghe, P. C., MD *Lond.*,  
 DPH *Camb.* Visiting Lectr.

### Operative Dental Surgery and Orthodontics

Dissanayake, S. B., BDS, FDSRCS  
 (D. Surg.) Prof.  
 Bartlett, G. C., MB BS, FDSRCS Lectr.

**Pathology**

- Dissanayake, S. B., BDS, FDSRCS  
(Dent. P.) Prof.  
Cooray, G. H., OBE, MD *Lond.* (Gen. P.) Prof.  
Bartlett, G. C., MB BS, FDSRCS  
(Dent. P.) Lectr.  
Tennakoon, G. E., PhD *Lond.*, MB BS  
(Gen. P.) Lectr.

**Physiology and Pharmacology**

- Koch, A. C. E., BSc *Oxon.*, LMS \*Prof.  
Baptist, N. G., BSc PhD *Lond.*, FRIC  
(Biochem.) Reader

**Lecturers**

- Watson, R. S. S., PhD *Lond.*, MB BS (Physiol.)  
Basnayake, V., DPhil *Oxon.*, MB BS (Physiol.)  
Bibile, Prof. S. W., PhD *Edin.*, MB BS  
(Pharmacol.)  
Kottegoda, S. R., BSc *Lond.*, DPhil *Oxon.*,  
MB BS (Pharmacol.)  
Wikramanayake, T. W., PhD *Glas.*, MB BS  
(Biochem.)  
Wijesundera, S., BSc DPhil *Oxon.*, BSc *Lond.*  
& *Ceyl.* (Biochem.)  
Karunairatnam, M. C., BSc *Lond.*, PhD *Edin.*  
(Biochem.)  
Jansz, H. D. W., BA *Camb.*, LMS (Physiol.)  
Hoover, Prof. A. A., BSc PhD *Lond.* (Biochem.)  
Nesarajah, M. S., MB BS (Physiol.)

**Prosthetic Dental Surgery**

- Brito-Mutunayagam, M. A. B., DTM  
DPH *Lond.*, FDSRCS \*Prof.  
Savundranayagam, A., BDS  
(on leave) Asst. Lectr.  
Bambaradeniya, K., LDS Asst. Lectr.

**Surgery, General**

- Sunwardene, M. H. G. K., MB BS, FRCS  
Visiting Lectr.  
Joseph, P. A. P., MB BS, FRCS Visiting Lectr.

**ENGINEERING****Civil Engineering**

- Pereira, E. O. E., BSc *Lond.*, BA *Camb.* \*Prof.  
Sivaprakasapillai, T., BSc BSc(Eng) *Lond.* Lectr.  
de Silva, H. B., BSc MSc(Eng) *Lond.* Lectr.  
Wikramaratna, P. H. D. S., BSc(Eng) *Lond.* Lectr.  
Selvanayagam, P., DIC, BSc(Eng)  
PhD *Lond.* Lectr.  
Arumugam, K., BSc(Eng) PhD *Lond.* Lectr.

**Electrical Engineering**

- Paul, R. H., MA *Camb.*, BSc *Lond.*, MIEE \*Prof.  
Gnanalingam, S., MA PhD *Camb.*, BSc Lectr.  
Fernando, W. M. G., MSc(Eng) *Lond.* Lectr.  
Jayasekera, W. P., BSc(Eng) PhD *Lond.* Lectr.

**Mathematics**

- Bartholomeusz, E. F., MSc *Lond.*,  
PhD *Camb.* Lectr.

**Mechanical Engineering**

Prof.

- Chinnappa, J. C. V., BE *Madr.*, DIC,  
MSc(Eng) *Lond.* Lectr., Actg. Hd. of Dept.  
Mahalingam, S., BSc(Eng) PhD *Lond.* Asst. Lectr.  
Kuruppu, U. S., BSc Asst. Lectr.  
Ranasinghe, D. P., BSc Asst. Lectr.  
2 Temp. Asst. Lectrs.

**MEDICINE****Anæsthetics**

- Lucas, A., LMS, FFARCS Visiting Lectr.  
Umagiliya, D. C. M., LMS, FFARCS  
Visiting Lectr.  
Fernando, J. L. C., LMS, FFARCS  
Visiting Lectr.  
Richards, J. R., LMS, FFARCS Visiting Lectr.  
Ponnambalam, S., LMS, FFARCS Visiting Lectr.  
Perera, B. S., MB BS, FFARCS Visiting Lectr.  
Gunaratne, C. M. H., MB BS, FFARCS  
Visiting Lectr.  
Attygalle, L. M. V., MB BS, FFARCS  
Visiting Lectr.

**Anatomy**

- Waas, M. J., PhD *Manc.*, LMS \*Prof.  
Jayawardene, F. L. W., PhD *Edin.*, MB BS Lectr.  
Pallie, W., DPhil *Oxon.*, MB BS Lectr.  
Jayatilaka, A. D. P., MB BS Lectr.  
Navaratnam, V., MB BS Lectr.  
Samarasinghe, D. D., MB BS Lectr.  
Perera, G. C. V., MB BS Demr.  
Gulasekharan, R., MB BS Demr.  
Rustomjee, P. F., MB BS Demr.  
Kumarakulasinghe, C. B., MB BS Demr.

**Bacteriology**

- Chapman, T. E. D., PhD DipBact *Lond.*,  
MB BS \*Prof.  
Arsecularatne, S. N., MB BS Lectr.

**Biochemistry**

- Hoover, A. A., BSc PhD *Lond.* \*Prof.  
Baptist, N. G., BSc PhD *Lond.*, FRIC Reader  
Wikramanayake, T. W., PhD *Glas.*, MB BS  
Lectr.  
Karunairatnam, M. C., BSc *Lond.*,  
PhD *Edin.* Lectr.  
Wijesundera, S., DPhil *Oxon.*, BSc *Oxon.*,  
*Lond.* & *Ceyl.* Lectr.

**Dermatology**

- Chelvarajah, T., LMS, MRCP Visiting Lectr.

**Forensic Medicine**

- Fernando, H. V. J., MD *Lond.*, MB BS \*Prof.  
Ranasinghe, H., MB BS (on leave) Lectr.  
Jayawardene, C. H. S., MB BS (on leave) Lectr.  
Kodagoda, N., MB BS Lectr.

**Infectious Diseases**

- Cooray, M. P. M. Visiting Lectr.



**Leprosy**

de Fonseka, P. J., LMS

Visiting Lectr.

**Medicine**

Rajasuriya, K., MD LMS, MRCP

\*Prof.

Seneviratne, B. I. B., MB BS

Registrar

De Silva, W. A. S., MB BS

Res. Asst.

Somasunderam, M., MB BS

Registrar

Nagaratnam, N., MB BS

Res. Asst.

Ramachandran, S., MB BS

Tutor

Visiting Lecturers (Ward Classes, Tutorials,  
Clin. Med. & Pre-Clin. Med.)Handy, G. R., OBE, MD *Lond.*, LMS, MRCPGunawardene, J. H., MD *Lond.*, LMS, MRCPJayawardena, R. P., MD *Lond.*, LMS, MRCPWilson, J. R., MD *Lond.*, MRCP

Medonza, M. O. R., MD, MRCP

Attygalle, D. J., MD, MRCP

Thanabalasundaram, R. S., MD, MRCP

Wijenaik, W., MD, MRCP

Ratnavale, G. S., MD, MRCP

Lecamwasam, D. K. L., MB BS, MRCP

**Obstetrics and Gynaecology**

Ranasinghe, D. A., LMS, FRCS, FRCOG

\*Prof.

Sinnatamby, A., LMS, FRCS, FRCSEd,

FRCOG

Prof.

Visvanathan, T., MB BS MOG, FRCSEd

Lectr.

Seneviratne, L., MB BS

Registrar

Jayasinghe, R. G. de S., MB BS

Registrar

Caldera, R., LMS, FRCSEd

Visiting Lectr.

Rajaratnam, P. D., LMS, FRCS, FRCOG

Visiting Lectr.

Kodagoda, N., MB BS

Res. Asst.

Weerakkody, S., MB BS

Res. Asst.

**Ophthalmology**

Senaratne, O. L. F., DOMS

Visiting Lectr.

Devaditiya, K. J. L. de S., LMS DOMS

Visiting Lectr.

Vythialingam, K., LMS DOMS, FRCS

Visiting Lectr.

Sivasubramaniam, P., LMS DOMS, FRCS

Visiting Lectr.

Pararajasegaram, R., DO *Lond.*, LMS,

MRCPed, FRCS, FRCSEd

Visiting Lectr.

**Orthopædics**

Silva, F., LMS, FRCS

Visiting Lectr.

Peiris, R. B. J., MB BS, FRCS, FRCSEd

Visiting Lectr.

**Otology, Laryngology, Rhinology**

Rustomjee, R. C. J., LMS, FRCS

Visiting Lectr.

Rasanayagam, V., LMS, FRCS

Visiting Lectr.

**Pædiatrics**de Silva, P. C. C., MD *Lond.*, LMS, FRCP

\*Prof.

Fernando, Mrs. N. Patricia, DCH *Lond.*,

MB BS, MRCP

Lectr.

Fernando, P. V. D., MB BS

Registrar

Rajasooriar, Miss R., MB BS DCH

Tutor

Bulugahapitiya, D. T. D., MB BS

Res. Asst.

**Parasitology**

Sivalingam, V., LMS, MRCP

\*Prof.

Dissanaike, A. S., PhD *Lond.*, MB BS BSc

(Parasitol.) Lectr.

Jayawardene, Mrs. Gladys L., PhD *Lond.*,

LMS

Visiting Lectr.

**Pathology**Cooray, G. H., OBE, MD *Lond.*

\*Prof.

Tennakoon, G. E., PhD *Lond.*, LMS

Lectr.

Attygalle, Mrs. Defney, PhD *Lond.*, MB BS

Lectr.

Gunasekara, N. D., MD *Edin.*

Lectr.

Yoganathan, Mrs. Mangayarkarasi, PhD

DCP *Lond.*, MB BS

Lectr.

Panabokke, R. G., PhD *Lond.*, MB BS

Lectr.

Ratnavale, W. D., MD DCP DPH *Lond.*,

MRCP

Visiting Lectr.

Abeyratne, M. R., MB BS

Demr.

Somasunderam, K., MB BS

Demr.

**Pharmacology**Bibile, S. W., PhD *Edin.*, MB BS

\*Prof.

Kortegoda, S. R., BSc *Lond.*, DPhil *Oxon.*,

MB BS

Lectr.

Lionel, N. D. W., MB BS

Lectr.

Balasubramaniam, K., MB BS

Demr.

**Physiology**Koch, A. C. E., BSc *Oxon.*, LMS

\*Prof.

**Lecturers**Watson, R. S., PhD *Lond.*, MB BS (Physiol.)Basnayake, V., DPhil *Oxon.*, MB BS (Physiol.)Jansz, H. D. W., BA *Camb.*, LMS (Physiol.)Bathirunathan, N., BPharm *Lond.*, BSc

(Pharmacol.)

Seneviratne, K. N., MB BS (Physiol.)

Nesarajah, M. S., MB BS (Physiol.)

**Demonstrator**

Attygalle, L. S., MB BS

**Psychological Medicine**

Abeyawardene, A. L., LMS DPM

Visiting Lectr.

**Public Health**Abhayaratne, O. E. R., DrPh *Harv.*,DPH *Edin.*, LMS

\*Prof.

de Fonseka, T. E. J., DPH PhD *Lond.*,

MB BS

Lectr.

Fernando, M. A., DPH *Lond.*, MB BS

Lectr.

Weerasinghe, H. D., MB BS

Lectr.

**Radiology and Electro Therapeutics**

Peiris, Q., LMS

Visiting Lectr.

Fernando, H. K. T., MB BS

Visiting Lectr.

Jayamanne, D. D. A., MB BS *Lond.*, LMS

Visiting Lectr.

**Surgery**Paul, M. A., MS *Lond.*, MRCP, FRCS

\*Prof.

de Fonseka, C. P., MS, FRCS      Lectr.  
 Abeyasuriya, S. C., MB BS      Res. Asst.  
 Nugaduwa, W. T., MB BS      Tutor  
 Wickremasinghe, S. Y. D. C., MB BS      Res. Asst.  
 Parameswaran, V., MB BS      Registrar  
 Mahesan, V. S., MB BS      Registrar

Visiting Lecturers (Ward Classes, Tutorials,  
 Clin. Surg., Pre-Clin. Surg. & Op. Surg.)

Sinnatamby, G. S., LMS, FRCS  
 Cabraal, S. A., MB BS, FRCS  
 Anthonis, P. R., LMS, FRCS  
 Bartholomeusz, L. N., MBE, LMS, FRCS  
 Austin, L. D. C., LMS, FRCS  
 Goonewardena, D. F. de S., LMS, FRCS,  
 FRCSed

Misso, C. J. L., LMS, FRCS  
 Perera, G. N., MB BS, FRCS  
 Navaratne, R. A., MB BS, FRCS  
 Paul, A. T. S., LMS, FRCS, FRCSED  
 Jayasekera, K. G., LMS, FRCS  
 Perera, T. D. H., MB BS, FRCS

#### Tuberculosis

Wilson, J. R., MD *Lond.*, MRCP

Nadarajah, S., TDD *Madras*, LMS      Visiting Lectr.  
 Richards, A. M. D., TDD *Madras*, LMS      Visiting Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrars: M. D. G. Abeyratne, BA ;  
 L. W. Madugalle, BA ; L. V. P. Wettasinha, BA.  
 Asst. Bursar: G. E. Peiris, BA. Univ. Med.  
 Officers: H. P. A. Wjetunga, DTM&H *Lond.*,  
 MB BS ; M. S. Uduwela, MB BS ; E. H. C.  
 Alles, MB BS DTM&H. Asst. Librarians:

K. D. Somadasa, MS *Col.*, BA *Lond.* ; Mrs.  
 Violet de Souza, BA DipLib *Lond.* ; E. L. Sam-  
 arasinghe, MS *Col.*, BSc ; H. A. I. Gunatileke,  
 BA *Lond.*, DipLibSc *Madras* ; S. Murugaverl,  
 BA. Dir. of Phys. Educn. : L. D. P. Handunge.  
 Instr. in Phys. Educn. : Shanti de Abrew, BA.

## GENERAL INFORMATION

The univ. was founded in 1942 by incorporation of the Ceylon University Coll., establd. in 1921, and the Ceylon Medical Coll., establd. in 1870. It occupies temporarily the premises of the two colls. in Colombo, but new bldgs. are being erected in Peradeniya, 4 mls. from Kandy, on the banks of the Mahaweli-ganga below the Royal Botanic Gdns. The facs. of arts, oriental studies, agric. and vet. sci. moved to Peradeniya in 1952, the general admin. in 1953 and the dental sch. in 1954. When the whole univ. is moved there it will become entirely residential. More land will be required for the fac. of med. and new facs. The main bldgs. are being erected to a plan formulated by Sir Patrick Abercrombie and Mr. Clifford Holliday.

**CONSTITUTION.** The corporation known as the Univ. of Ceylon (establd. under the Ceylon Univ. ordinance no. 20 of 1942) consists of the chancellor (the governor-general), the pro-chancellor (the minister of education), the vice-chancellor, the court, the council and the senate. Financial and legislative control is vested in the court, which consists of the chancellor, pro-chancellor, vice-chancellor, members of the council, profs. and other hds. of depts., reps. of the facs., grads., parliament and other bodies and certain nominated members. The council is the executive body of the univ. In academic matters it acts on the advice of the senate, which in many matters acts on the recommendation of the facs.

**INCOME (1958-59).** Total, Rs. 10,691,028 (govt. grant, 83.7 per cent. ; fees, etc., 12 per cent. ; other sources, 4.3 per cent.).

**FACULTIES AND DEANS.** *Agric. & vet. Sci.*, Prof. C. A. McGaughey (vet. sci.) ; *arts*, Prof. H. A. Passe (Engl.) ; *engin.*, Prof. E. O. E. Pereira (civil engin.) ; *med.*, Prof. O. E. R. Abhayaratne (pub. health) ; *oriental studies*, Prof. K. Kanapathipillai (Tamil) ; *sci.*, Prof. B. L. T. de Silva (bot.).

**LIBRARIES.** Main libr. (now in Peradeniya) : 140,000 vols. ; sectional libr. attached to labs. The univ. makes a grant to the Ceylon med. libr., which is used as libr. of fac. of med.

**LABORATORIES.** Sci. labs. in Thurstan Rd. (moving to Peradeniya in 1960-61) ; med. labs. in Kynsey Rd., Colombo ; dent. labs. in Peradeniya.

**HOSPITALS.** Colombo General H., De Soysa Maternity H. and the Dental Inst. are teaching hosps. Med. students also use the Med. Res. Inst. and the Kalutara Public Health Centre.

**ADMISSION.** No one is eligible for admission to a degree course unless he has passed the entrance exam. of the univ. or an equivalent exam. The prelim. exam., which is held with the Ceylon Higher Sch. Cert. exam. in Dec. each yr., is treated as an entrance exam. Candidates for the prelim. exam. must have passed the (Ceylon) General Cert. of Educn. (ordinary level) exam. Min. age of admission to univ., 17 yrs.

**FIRST DEGREES.** 3 yrs.—BA gen., BSc gen., BScAgric, LLB ; 4 yrs.—BA spec., BSc spec. BA spec. may be taken in Arabic, Buddhist civilization, econ., geog., Greek, hist., Latin, maths., Pali, philos., Sansk., Sinhalese, sociol., Tamil,

western classical culture, western classics ; BSc spec. in bot., chem., maths., phys., zool. ; 5 yrs. from univ. entrance exam. or 4 yrs. from first exam.—BDS ; 6 yrs. from prelim. exam. or 5 yrs. from first exam. (which may be taken from sch.)—MB BS.

**HIGHER DEGREES.** MA or MSc, 2 yrs. PhD, 2 yrs. Degrees of DLitt, LLD, DSc, MD, MS, MOG for grads. of the univ. only.

**HONORARY DEGREES.** DLitt, DSc, LLD, MA.

**DIPLOMAS.** Educn., 1 yr. Sinhalese, Tamil, 2 yrs. each, the medium of instructn. being Sinhalese and Tamil respectively. Med. & surg., 1 yr. LDS, 5 yrs. from univ. entrance exam. DTM&H, 6 mos.

**ACADEMIC YEAR.** 3 terms : July to Sept., Oct. to Dec., Jan. to March.

**FEES** (Rs. 13 = £1). No tuition, exam. or degree fees for citizens of Ceylon who are not repeating courses or exams. For others, tuition fees are : arts, Rs. 150 ; sci., Rs. 225 ; med., Rs. 525. Every student pays a registration fee of Rs. 30 p.a.

The **LANGUAGE OF INSTRUCTION** in all facs. is English, but courses in Sinhalese and in Tamil are given in those langs.

**POSTGRADUATE AWARDS.** Hilda Obeyesekera res. fellowships (one or more), annual value not less than Rs. 4800 ; E. W. Goonetilleke res.

fellowship in Theravada Buddhism, Rs. 3000 for 3 yrs.

**RESIDENCE.** Colombo : for men—Univ. Christian Hostel (tel. : Colombo 8054), warden, ..... ; Rs. 197 per term. Aquinas Hall (Catholic) (tel. : Colombo 8731), warden, Rev. Father Dominic I. Lewis, Rs. 197 per term. Medical Hostel (tel. : Colombo 91789), warden, Dr. T. W. Wikramanayaka.

Peradeniya (tel. : Univ. Exchange Kandy, unless otherwise stated) : for men—Arunachalam Hall (tel. : ext. 234), warden, Prof. M. A. B. Brito-Mutunayagam ; Jayatilaka Hall (tel. : ext. 233), warden, Dr. M. H. F. Jayasuriya ; Marys Hall (tel. : ext. 252), warden, Dr. B. A. Baptist ; Ramanathan Hall (tel. : exts. 261, 279), warden, J. B. C. Rodrigo ; Marcus Fernando Hall (tel. : ext. 299), warden, Dr. P. Seneviratne ; for women—Hilda Obeyesekera Hall (tel. : ext. 225), warden, Miss Kanmalar Mathiaparanam ; James Peiris Hall (tel. : ext. 230), warden, Mrs. Vajira Cooke ; Sanghamitta Hall (tel. : ext. 242), warden, Mrs. Ram Aluwishare ; Bhikkus Hostel (tel. : ext. 284), warden, A. D. V. de S. Indaratne.

Fees for all Peradeniya halls of residence, Rs. 220 per term.

**PUBLICATIONS.** *Calendar* (annual), Rs. 5 ; *Annual Report of the Council* (not for sale).

**UNIVERSITY PRESS** undertakes most printing work of the univ. Supervisor : H. B. Perera.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Rs. 343,245 for work in facs. of agric. and vet. sci. from U.S. aid and \$93,000 from Rockefeller Foundation for development of lang. project.

**RETIREMENTS.** Prof. G. P. Malalasekera (Pali) ; Prof. P. B. Fernando (med.) ; Prof. B. B. Das Gupta (econ.) ; Prof. P. K. Chanmugam (anat.) ; J. de Lanerolle (Sinhalese dictionary) ; P. Kirthisinghe (zool.) ; W. F. Abeyakoon (asst. registrar).

**RESIGNATIONS.** H. J. Balmond (registrar) ; R. Sri Pathmanathan (western classics) ; Dr. T. Thambiahpillai (phys.) ; Prof. C. J. Eliezer (maths.) ; Dr. A. C. J. Weerakoon (zool.) ; Dr. C. H. Fernando (zool.) ; Dr. S. M. Yusuf (Arabic) ; M. C. Kodikara (maths.).

**DEATH.** Dr. U. Amarasinghe (lectr. in Engl.).

**HONORARY DEGREE.** DLitt—Dr. R. Prasad, pres. of Republic of India.

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	2233	—
Women . . .	948	—

Total . 3181

Distribution by Faculties. *Agric.*, 20 ; *arts*, 1385 ; *engin.*, 243 ; *law*, 36 ; *med.*, 954 ; *sci.*, 527 ; *vet. sci.*, 16. Total : 3181.

Included in the figures above are :—

Postgraduate students, 132.

New admissions, 886.

Students from other countries, 4.

**DEGREES AWARDED** (1958-59). *Agric.* : BSc (Agric), 4. *Arts* : BA, 268 ; MA, 5. *Engin.* : BSc(Engin), 31. *Law* : LLB, 10. *Med.* : MB BS, 100 ; MD, 9. *Sci.* : BSc, 109. *Vet. sci.* : BVSc, 6. Total number of first degrees awarded, 533.

**DIPLOMAS AWARDED** (1958-59). DipEd, 65 ; DTM&H, 8 ; DTM&S, 1. Sinhalese & Tamil, 20.

# GHANA

**University College of Ghana (p. 360)**

# UNIVERSITY COLLEGE OF GHANA\*

Founded 1948

Postal Address : Legon, Ghana, West Africa

Cables and Telegrams : University, Legon

Telephone : Legon Exchange

(London Office : 15 Gordon Square, W.C.1. Cables : Univghana, London.

Telegrams ; Univghana, Westcent, London. Telephone : Euston 2119)

CHAIRMAN OF COUNCIL—The Hon. Justice Sir K. A. KORSAH, CBE, MA DCL *Durh.*

PRINCIPAL—R. H. STOUGHTON, DSc *Lond.*, Hon. LL.D *Tor.*

PROVOST—G. I. SMITH, MSc *Lond.*

REGISTRAR—M. DOWUONA, MBE, MA *Oxon.*

CHIEF ACCOUNTANT—G. M. ROBB, CA

LIBRARIAN—A. ELISE WALKER, FLA

## TEACHING STAFF

### Agriculture

Phillips, J. F. V., DSc *Edin.*  
Wilson, A. S. B., BSc *Edin.*  
Nyenhuis, E. M., BSc *Stell.*  
Smuts, S. J., MSc *Rand*  
Corbett, G. G., BScTech *Manc.*  
Bray, F. R., MA *N.Z.*  
Harding, H. P., FRCVS  
Rose-Innes, R., MSc *Rand*  
Lansbury, T. J., BSc *Lond.*  
Fry, N. C. V.  
Montsma, G., Ir(LI) *Wageningen*  
Greig, D., BSc *Leeds*, MSc *Durh.*  
Dow, M. G. C. M., BSc *Aberd.*  
Ofori, S. B., BSc *R'dg.*  
Constable, D. H., MSc *Lond.*

Nungua Research Stn.

Hill, P. R. Farm Manager  
Gaudie, M., BA *Camb.* Asst. Farm Manager

Kade Research Stn.

Hagenzieker, F., MSc *Wageningen*  
Res. Officer-in-Charge  
Langley, C. J. Farm Manager  
Liefstingh, G., MSc *Wageningen* Res. Officer

Kpong Research Stn.

Lea, J. D., MSc *Rand* Res. Officer-in-Charge  
Kowal, J. M. L., MSc *Wales* Res. Officer  
Parry, D. W. Farm Manager

### Archæology

Shinnie, P. L., MA *Oxon.*, FSA Prof.  
Davies, O., MA *Oxon.*, DLitt *Dub.* Reader

### Botany

Prof. Sansome, F. W., BSc(Agric) PhD *Edin.*,  
Sr. Lectr. FLS Prof.  
Sr. Lectr. Lawson, G. W., BSc PhD *Lond.* Sr. Lectr.  
Sr. Lectr. Morton, J. K., BSc PhD *Durh.* Lectr.  
Sr. Lectr. Harris, B. J., BSc PhD *Wales* Lectr.  
Sr. Lectr. Wilson, J. Y., BSc *Lond.*, PhD *Camb.* Lectr.  
Sr. Lectr. Laing, E., BSc *Lond.*, PhD *Camb.* Lectr.  
Lectr. Slater, W. G., MSc *Melb.*, DPhil *Oxon.* Lectr.  
Lectr. Sansome, Eva, MSc *Durh.*, DSc *Manc.* Lectr.

### Chemistry

Israel, G. C., MSc *N.Z.*, FRIC Prof.  
Torto, F. G. T. O'B., BSc PhD *Lond.* Sr. Lectr.  
Blair, J. A., BSc PhD *Glas.*, FRIC Lectr.  
Quartey, J. A. K., MA PhD *Camb.* Lectr.  
Bekoe, D. A., BSc *Lond.*, DPhil *Oxon.* Lectr.  
Hutcheon, A. T., PhD *McG.*, MSc *Sask.* Lectr.  
Kerridge, D. H., BSc PhD *Nott.* Lectr.

### Classics

..... Prof.  
Astley, Sir Francis, MA *Oxon.*, PhD *Lond.* Sr. Lectr.  
Ofosu-Appiah, L. H., MA *Oxon.* Sr. Lectr.  
Kwapong, A. A., MA PhD *Camb.* Lectr.  
Barton, I. M., MA *Camb.* Lectr.  
Hanson, J. O. de G., BA *Lond. & Camb.* Lectr.

### Divinity

King, Rev. N. Q., MA *Oxon.*, PhD *Nott.* Prof.  
Baeta, Rev. C. G., OBE, BA BD *Lond.* Sr. Lectr.  
Ashanin, C. B., BD PhD *Glas.* Lectr.

Associate Member of the Association of Universities of the British Commonwealth

Hicks, D. C., MA BD *Glas.*  
 Dickson, K. A., BA *Lond.*, BLitt *Oxon.* Lectr.  
 Stewart, J. V., BA *Oxon.* Asst. Lectr.

**Economics**

Williams, J. W., MCom *N.Z.*, PhD *Lond.* Prof.  
 Niculescu, B. M., MA *Camb.*,  
 BSc(Econ) PhD *Lond.* Sr. Lectr.  
 Bevin, H. J., BSc(Econ) *Lond.* Lectr.  
 Price, J. H., MA *Oxon.* Lectr.  
 Rimmer, D., BA *Sheff.* Lectr.  
 Rado, E. R., BSc(Econ) *Lond.* Lectr.  
 Tordoff, W., MA *Camb.* Lectr.  
 Hymer, S. H., BA *McG.*, PhD *M.I.T.* Lectr.  
 Cohen, C. D., BSc(Econ) *Lond.* Asst. Lectr.  
 Humphreys, Mrs. Mary E., MA *Camb.* Res. Fellow  
 Garlick, P. C., MA *Sheff.* Res. Fellow

**Education**

Curle, A. C. T. W., MA BSc DPhil *Oxon.* Prof.  
 Kaye, B. L. B., BSc(Econ) PhD *Lond.* Sr. Lectr.  
 Andrews, H. J., MA *Oxon.* Lectr.  
 Chaplin, B. H. G., BSc *Manc.* Lectr.  
 Pritchard, D. F. L., MA DipEd *Lond.* Lectr.  
 Hickman, Gladys M., BA PhD *Lond.* Lectr.

**English**

Walton, G., MA MLitt *Camb.* Prof.  
 Stock, T. A., MA *Oxon.* Lectr.  
 Storch, R. F., MA *Oxon.* Lectr.  
 Dunn, T. A., MA PhD *Edin.* Lectr.  
 Maxwell, D. E. S., BA PhD *Dub.* Lectr.  
 Mayhead, R., MA *Camb.* Lectr.  
 Senanu, K. E., BA *Lond. & Camb.* Asst. Lectr.

**French Studies**

Wardman, H. W., BA PhD *Lond.* Sr. Lectr.  
 Knight, E. W., BA *Brown*, DU *Paris* Lectr.  
 Amonoo, R. F., BA *Lond.*, MA *Manc.* Lectr.  
 Muir, Lynette R., BA PhD *Lond.* Lectr.

**Geography**

..... Prof.  
 Hilton, T. E., MA *Manc.*, PhD *Lond.* Sr. Lectr.  
 Boateng, E. A., MA BLitt *Oxon.* Sr. Lectr.  
 Hunter, J. M., BA PhD *R'dg.* Lectr.  
 Dickson, K. B., BA PhD *Lond.* Lectr.

**Geology**

McCallien, W. J., DSc *Glas.* Prof.  
 Smit, A. F. J., MSc *Amst.* Lectr.  
 van Landewijk, J. E. M., DSc *Utrecht* Lectr.  
 Walton, B. J., BSc PhD *Lond.* Asst. Lectr.  
 Austin, W. G. C., BA *N.Staffs.* Asst. Lectr.

**History**

Irwin, G. W., MA *Camb. & N.Z.*,  
 PhD *Camb.*, BA *Adel.* Prof.  
 Metcalfe, G. E., MA *Oxon.* Sr. Lectr.  
 Lander, J. R., MA MLitt *Camb.* Lectr.  
 Priestley, Margaret A., MA *Camb.*,  
 BLitt *Oxon.* Lectr.  
 Sprigge, R. G. S., MA *Camb.* Lectr.

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Boahen, A. A., BA PhD *Lond.* Asst. Lectr.  
 Tufuoh, I. A., BA *Lond.* Asst. Lectr.

**Law**

Lang, J. H. A., LLB *Lond.* Prof.  
 Rubin, I. I., BA LLB *S.A.*, LLD *Cape T.* Sr. Lectr.  
 Pooley, B. J., BA LLB *Camb.*, LLM *Mich.* Lectr.  
 Kuma, A. C., BA *Dub. & Oxon.*, LLB *Dub.* Asst. Lectr.

**Mathematics**

..... Prof.  
 Clarke, L. E., MA PhD *Camb.* Sr. Lectr.  
 Campbell, M. O'N., MA PhD *Camb.* Lectr.  
 Heymans, P., BA PhD *Lond.* Lectr.  
 Hartley, Elizabeth M., MA PhD *Camb.* Lectr.  
 Baines, M. J., BSc *Lond.* Lectr.

**Philosophy**

Herbst, P., MA *Melb.*, BA *Oxon.* Prof.  
 Gibbons, P. C., BA *Syd.*, BPhil *Oxon.* Lectr.  
 Collins, E. F., BA *Camb.* Lectr.  
 Gjertsen, D., BA *Leeds* Asst. Lectr.  
 Cohen, Brenda M., BA *Lond.* Asst.

**Phonetics**

McCallien, Mrs. Catherine, MA *Glas.* Sr. Lectr.  
 Woolley, J. S., MA *Oxon.* Lectr.  
 Stirling, W. F., BA *Lond.*, LicdeFil *Madrid* Lectr.  
 Moonie, Irma F., MA *Edin.* Asst. Lectr.  
 Hubbard, Wendy E., BA *Leeds* Asst. Lectr.

**Physics**

Wright, R. W. H., BSc PhD *Lond.* Prof.  
 Ward, A. H., BSc PhD *Birm.* Sr. Lectr.  
 Koster, Rev. J. R., MS *De Paul*,  
 PhD *Lond.* Lectr.  
 Hutton, V. Rosemary S., MA *St.And.* Lectr.  
 Osborne, D. G., BSc PhD *Durh.* Lectr.  
 McClelland, J. A. G., BSc *Belf.* Lectr.  
 Grimes, L. G., BSc PhD *Brist.* Lectr.  
 Clemesha, B. R., BSc *Lond.* Res. Fellow

**Sociology**

Drake, J. G. St. C., BSc *Hampton*,  
 PhD *Chic.* Prof.  
 Smith, R. T., MA PhD *Lond.* Sr. Lectr.  
 Rollings, P. J., BSc(Soc) *Lond.* Lectr.  
 Baxter, P. T. W., BA *Camb.*, BLitt  
 DPhil *Oxon.* Lectr.  
 de Graft-Johnson, K. E., MA *Lond.* Lectr.  
 Fiscian, C. E., BA PhD *Lond.*  
 Brokensha, D. W., BA *S.A.*, MA *Camb.*,  
 BLitt *Oxon.* (Soc. Admin.) Lectr. & Tuto  
 Omari, T. P., MSc PhD *Wis.* (Soc. Admin.) Lectr.

Njisane, E. G. M., BA *S.A.*, BSocSc *Natal* Lectr.

**Zoology**

..... Prof.  
 Thomas, J. D., BSc PhD *Wales* Sr. Lectr.

Hollingsworth, M. J., BSc PhD *Lond.* Lectr.  
 Mead, A. P., BSc *Brist.* Lectr.  
 Bowyer, Freda, BSc PhD *Lond.* Lectr.  
 Jago, N. D., BSc *Lond.* Lectr.  
 Hughes, B., BSc *Lond.* Asst. Lectr.

Bertelsen, P. H., CandPol *Copenhagen*,  
 MA *Camb.* Resident Tutor  
 Andoh, A. S. Y., MA *St.And.*, BA *Oxon.*  
 Ampene, E., MA *Lond.* Resident Tutor  
 Holden, J. J., MA *Oxon.* Resident Tutor

### EXTRA-MURAL STUDIES

Kimble, D., BA *R'dg.* Dir.  
 Jones-Quartey, K. A. B., AM *Col.* Asst. Dir.  
 de Graft-Johnson, J. C., BCom MA  
 PhD *Edin.* Sr. Resident Tutor  
 Wilks, I. G., BA *Wales* Resident Tutor  
 Goodland, T. M., MSc(Econ) *Lond.* Resident Tutor

### INSTITUTE OF AFRICAN STUDIES

Nketia, J. H., BA *Lond.* Sr. Res. Fellow

### INSTITUTE OF EDUCATION

Taylor, A., MA *N.Z.* Dir.  
 Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Med. Officer : A. M. Boyd, BSc MB ChB  
 DPH *St.And.*, DTM&I *Lond.* Asst. Med.  
 Officer : S. A. Banful, MB BS *Durh.* Asst.  
 Registrars : D. E. Bennett, MA *Camb.* ; H.  
 Fearn, MA *Camb.*, PhD *Lond.* ; C. K. Gbeho,  
 BA *Lond.* ; G. R. Gyamera, BSc(Econ) *Lond.* ;  
 T. A. Mensah, BA I.LB *Lond.* Asst. Chief  
 Accountant : S. K. B. Taylor. Sub-Librarian :  
 H. A. Rydings, MBE, MA *Camb.* Asst. Lib-  
 rarians : Elizabeth M. Moys, BA *Lond.* ; R. V.

Athaide, BSc I.LB BA PhD *Bom.* Sec. to Inst. of  
 Educn. : N. O. Anim, BA *Lond.*, MA *Claremont.*  
 Manciple : G. A. Deegan. Hds. of Halls of Resi-  
 dence : G. I. Smith, MSc *Lond.* (Legon Hall) ; D.  
 Kimble, BA *R'dg.* (Akuafio Hall) ; M. Dowuona,  
 MBE, MA *Oxon.* (Commonwealth Hall) ;  
 Catherine McCallien, MA *Glas.* (Fourth Hall).

LONDON OFFICE. W. G. Sewell, MSc *Leed.*,  
 Asst. Registrar (London).

## GENERAL INFORMATION

The coll. is an independent instn., governed  
 by a council which was incorporated by the Univ.  
 Coll. of the Gold Coast Ordinance (Gold Coast  
 No. 6 of 1948).

CONSTITUTION. The senate consists of all full-  
 time teaching, res. and admin. officers above a  
 certain seniority. The facs. and fac. bds., the  
 financial bd., and other bodies, all consist of  
 members of the senate. The duty of submitting  
 resolutions to the senate is entrusted to a council  
 elected by the senate and advised by a general bd.  
 of the facs. and by the financial bd.

INCOME. Govt. grant, £900,000 ; fees,  
 £55,736 ; other income, £74,721.

Grants totalling £2,897,000 have been made  
 by the Cocoa Marketing Bd. for the devel. of  
 agric. and for general purposes. In addn., the  
 govt. has made grants for bldg. and equipment  
 totalling £6½ million. A grant of £400,000 has  
 been made from Colonial Devel. and Welfare  
 funds towards a hall of residence. A further  
 capital grant of £1,800,000 has been promised by  
 govt. for the next quinquennium to complete the  
 first phase of devel.

FACULTIES. Agric., arts, biol. scis., phys. scis.,  
 soc. studies.

COLLEGE PRECINCT. A site of 5 sq. mls. near  
 Accra, presented by the govt., is being developed  
 for the permanent bldgs. of the coll. The first  
 phase of devel. provides for a fully residential coll.

of 1000 students. The ultimate devel. is planned  
 for 5000 students. All depts. and all students are  
 housed in new bldgs. on the permanent site at  
 Legon.

LIBRARY. 120,000 vols. ; more than 2800  
 periodicals are taken. Special West Africa  
 collection.

BOTANICAL GARDEN. GEOPHYSICAL RES. STN.  
 AGRIC. RES. STNS. at Nungua and Kade.

ADMISSION. Entry through annual competitive  
 exams. Candidates must have satisfied the entry  
 requirements of the Univ. of London (see Appen-  
 dix II). Admission is open to men and women of  
 all nationalities and races.

FIRST DEGREES (of Univ. of London). Admitted  
 in 1948 to sp. relationship with the Univ. of  
 London\* (as envisaged in the Asquith com-  
 mission's report on higher educn. in the colonies,  
 1945), the coll. provides courses for the London  
 BA (gen.), BSc (gen.), BA (hons.) (in classics,  
 divinity, Engl., French, geog., hist., philos.,  
 sociol.), BSc (spec.) (in bot., chem., geol., maths.,  
 phys., zool.), BSc(Econ), BSc(Soc) and BSc  
 (Agric).

HIGHER DEGREES (of Univ. of London). Work  
 for the MA and MSc degrees of the Univ. of  
 London can be undertaken in all depts. by  
 students who are London grads. Full-time teach-  
 ing or res. officers of the coll. may register for the  
 PhD of London under the internal regns.

**CERTIFICATES.** 1 yr.—postgrad. cert. in educn. (of Univ. of London), coll. associate cert. in educn. (for experienced non-grad. teachers only); 2 yrs.—coll. cert. in soc. admin. (for experienced soc. workers).

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). Provides 1-yr. courses for grads. and non-grads. (see 'Certificates', above).

**FEES.** Inclusive fee for tuition and residence for undergrads., £100 p.a.; for postgrad. students, £200 p.a.

**ACADEMIC YEAR.** 3 terms of 10 weeks each. 1960-61—Michaelmas: Sept. 27 to Dec. 9; Lent: Jan. 13 to March 24; Trinity: April 14 to June 23.

**LANGUAGE OF INSTRUCTION.** English.

**EXTRA-MURAL WORK.** Sessional classes, short

residential courses, week-end conferences, occasl. sp. lectures and annual residential New Year sch. lasting about a fortnight.

**STUDENT RESIDENCES.** All students are required to reside full-time in coll., undergrads. for at least 3 yrs. There are 4 halls of residence (for hds., see 'Admin. and Other Staff', above). For men: Legon Hall (180 students), Akuafo Hall (180), Commonwealth Hall (280). For women: Fourth Hall (ultimately about 150).

**STAFF RESIDENCES.** Staff accomm. provided by the coll. at a charge not exceeding 7.5 per cent. of salary.

**PUBLICATIONS.** *Annual Report*; *Universitas* (thrice yrly.), 2s.

**COLLEGE BOOKSHOP.**

## THE YEAR 1959

**RETIREMENTS.** W. D. Russell (bursar & chief accountant).

**RESIGNATIONS.** Dr. C. D. Adanis (bot.), apptd. Rockefeller res. fellow, Inst. of Commonwealth Studies, Lond.; Dr. R. F. Chapman (biol. res. inst.), apptd. lectr. in zool., Birkbeck Coll., Lond.; Dr. L. Winston Cone (extra-mural studies), returned to Purdue Univ. at end of secondment period; Dr. Renee L. Curtis (French), apptd. lectr., Westfield Coll., Lond.; Rev. H. W. Debrunner (div.), apptd. res. worker, Internat. Missionary Council, working with Ewe Presbyterian Church, Togoland; Prof. E. H. G. Dobby (geog.); Prof. J. D. Fage (hist.), apptd. to post at Sch. of Oriental & African Studies, Lond.; Dr. D. T. Gauld (zool.), apptd. lectr., Aberd.; Dr. D. J. Greenland (agric.), apptd. lectr. in soil chem., Waite Agric. Res. Inst., Adel.; Prof. T. M. Harris (bot.), returned to R'dg. at end of secondment period; P. Hodge (sociol.), apptd. asst. lectr. in soc. admin., L.S.E., Lond.; Dr. M. Holdsworth (bot.), apptd. plant physiologist, The Museum, Dunedin, New Zealand; R. F. Loxton (agric.), apptd. to div. of chem. services, dept of agric., Pretoria; A. Spicer (phonetics), apptd. lectr. in phonetics, Leeds; Dr. P. B. Tomlinson (bot.), apptd. to post at Leeds; Miss Margaret R. Way (phonetics), on expiration of tenure appt.

### Statistics

#### STUDENT NUMBERS, 1958-59

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	488	—
Women . . .	31	—
Total . . .	519	—

**Distribution by Faculties.** *Agric.*, 38; *arts*, 181; *div.*, 23; *sci.*, 105; *soc. studies*, 160.

*Included in the figures above are:—*

Postgraduate students, 12 (incl. students for postgrad. cert. in educn.).

New admissions, 226.

Students from other countries, 31. (Country from which largest number came: Nigeria, 29).

**DEGREES AWARDED** (sp. relationship with Univ. of London) (1958-59). BA general, 9; BA hons., 19; BD, 1; BSc(Econ), 21; BSc(Soc), 1; BSc general, 15; BSc spec., 4; BSc(Agric), 7.

**CERTIFICATES AWARDED** (1958-59). *By Coll.*: soc. admin., 11; assoc. cert. for non-grad. teachers, 26. *By Univ. of London*: educn., 12.





# HONG KONG

University of Hong Kong (p. 366)

# UNIVERSITY OF HONG KONG\*

Founded 1911

Postal Address : Hong Kong

Telegraphic Address : University, Hong Kong

Telephone : Hong Kong 42321

PATRON—H.M. THE QUEEN

CHANCELLOR—H.E. THE GOVERNOR OF HONG KONG

VICE-CHANCELLOR—L. RIDE, CBE, MA DM BCh Oxon., LL.D. Tor., JP

PRO-VICE-CHANCELLOR—Professor F. E. STOCK, MB BS Lond., FRCS, FACS, JP

TREASURER—M. W. TURNER, CBE, MA Oxon., Hon LL.D., JP

REGISTRAR—B. MELLOR, MA DipEd Oxon., JP

BURSAR—A. W. WILSON

LIBRARIAN—.....

## TEACHING STAFF

[†=Part-Time]

### Anatomy

Chang, K. S. F., MSc *St. John's (Shanghai)*  
PhD *Corn.* Prof.  
Maneely, R. B., MSc *Liv.* (Histol.) Sr. Lectr.  
Lee, Marjorie M. C., MD *W. China Union* Lectr.  
Lee, R. H. S., MBE, MB BS †Lectr.  
Chan, Mrs. Shuk-tsz, MB *Natnl. Chung*  
*Cheng Med. Coll.* Asst. Lectr.  
Li, Miss Wen-E., MD *P.U.M.C.* Demr.  
Liu, Miss Hing-Ching, BSc *Sun Yat-sen* Demr.  
Miao, W. C., MB *Lingnan* Demr.  
Ng, C. K., MB *Lingnan* Demr.

Lim, Miss Elvera, BSc Demr.  
Yue, S. B., BSc Demr.

### Chemistry

Miller, J., BSc PhD *Lond.* Prof.  
Arthur, H. R., BSc *Melb.*, MSc *W. Aust.*,  
FRACI (Org. C.) Sr. Lectr.  
..... (Phys. C.) Sr. Lectr.  
Collins, Mrs. Dorothy A., MSc *Liv.* Lectr.  
Leary, R. H., BSc *W. Aust.* Asst. Lectr.  
Hui, Miss Wai-han, BA MSc Asst. Lectr.  
Lai, Miss Ting Fong, DPhil *Oxon.*, MSc  
Asst. Lectr.

### Chinese

Drake, F. S., BA BD DipEd DipGeog *Lond.* Prof.  
Sargent, G. E., BSc *Chic.*, DUParis  
(Oriental Studies) Reader  
Liu, P. M., LB *Hosei*, BA *Hosei & Nanking*  
Sr. Lectr.  
Lo, H. L., BA *Tsing Hua* Lectr.  
Jao, T. I. Lectr.  
Yu, P. K., BA *Sun Yat-sen*, MA *Wash.* Lectr.  
Yang, V. T., BComm *Edin.* Asst. Lectr.

### Economics and Political Science

Kirby, E. S., BSc(Econ) PhD *Lond.* Prof.  
Szczepanik, E. F., ComSc *Warsaw*,  
MSc(Econ) PhD *Lond.* Sr. Lectr.  
Hsia, R., BA *Peking*, PhD *S. Calif.* Lectr.  
Davies, G., BSc *Wales*, PhD *Lond.* Lectr.  
Matthews, J. W., BSc(Econ) *Lond.* Lectr.  
Lethbridge, H. J., BSc(Econ)  
BSc(Sociol) *Lond.* Lectr.  
Hsueh, S. S., BA *Peking*, DèScPol *Geneva*  
Lectr.

### Architecture

Gregory, W. G., BArch *Liv.* Prof.  
Hollmann, H. G. Sr. Lectr.  
Nedberg, B. Sr. Lectr.  
Wong, C. H., MCD *Liv.*, BArch *Sun*  
*Yat-sen* Lectr.  
Kwan, C. W., BSc(CE) *Sun Yat-sen*,  
MS(SE) *Purdue* Lectr.  
Prescott, J. A., BArch MCD *Liv.* Lectr.  
Smith, D. E. H. Lectr.  
Mayne, Mrs. Patricia, BArch *Dub.* Lectr.  
Wang, C. Y., BA *Natnl. Fuh Tan* Demr.

### Botany

Stenton, H., BA PhD *Camb.* Prof.  
Chiu, Miss Bek-to, BSc *Lond.* Sr. Lectr.  
Chen, Miss Spring, BSc PhD *Lond.* Asst. Lectr.  
Chang, Miss Yung, BSc Demr.

Member of the Association of Universities of the British Commonwealth

**Education**

Priestley, K. E., MA DipEd <i>Oxon.</i>	Prof.
Simpson, R. F., BSc MA <i>Lond.</i>	Lectr.
Wright, Beryl R., BEc <i>Syd.</i>	Lectr.
Li, Mrs. Anita K., BA <i>Lake Forest</i> , DipEdPsychol <i>Birm.</i>	Lectr.
Lowe, Mrs. Agnes H. L., DiplTeachEnglFor <i>Inst.ofEducn.</i> , <i>Lond.</i> , BA DipEd	Lectr.
Young, Mrs. Wang Man Shung, BA <i>Natnl.Central(Nanking)</i>	Lectr.
Rose, J., BSc <i>Lond.</i>	Lectr.
Lec, Mrs. Gennie G. H., BA <i>Beloit</i>	Asst. Lectr.

**Engineering, Civil**

Mackey, S., BSc ME <i>N.U.I.</i> , PhD <i>Leeds</i> , FGS	Tai Koo Prof.
Weir, C. D., BSc PhD <i>Glas.</i>	Reader
King, S. Y., DIC, PhD <i>Lond.</i> , BSc(Eng)	Reader
Lamb, P., DIC, MSc <i>Lond.</i>	Lectr.
Chen, L. K., BSc <i>St.John's (Shanghai)</i> , BSCE MS III.	Lectr.
Rafferty, J. J., ME <i>N.U.I.</i> , PhD <i>Leeds</i>	Lectr.
Loh, S. C., BSc PhD <i>Leeds</i>	Lectr.
Soundranayagam, S., BSc <i>Lond.</i>	Lectr.
Fang, P. S. K., BSc <i>Chiao Tung &amp; Manc.</i> , MEng <i>McG.</i>	Lectr.
.....	Lectr.
.....	Lectr.
.....	Lectr.
Hui, C. Y., DIC, BSc(Eng)	Asst. Lectr.
Leung, K. W., BSc(Eng)	Asst. Lectr.
Wong, K. C., DIC, PhD <i>Lond.</i> , BSc(Eng)	Asst. Lectr.
Yu, P. K., BSc <i>Lingnan</i>	Asst. Lectr.
Lung, Y. S., BA <i>Sun Yat-sen</i>	Asst. Lectr.
Sutton, E. R.	Workshop Instr.

**English**

Blunden, E. C., CBE, MC, MA <i>Oxon.</i> , FRSL	Prof.
Green, A. W. T., MA <i>Oxon.</i>	
(Linguistics)	Sr. Lectr.
Visick, Mrs. Mary, MA BLitt <i>Oxon.</i>	Lectr.
Hardie, A. M., MA <i>Oxon.</i>	Lectr.
Yu, Margaret, PhB <i>Marquette</i> , DiplEnglStud <i>Edin.</i> , BA	Lectr.
Rooke, Barbara E., MA <i>Qu.</i> , PhD <i>Lond.</i>	Lectr.
.....	Lectr.
Blunden, Mrs. Claire M., MA DipEd <i>Oxon.</i>	Lectr.
Khemlyani, Devi K., BA	Asst. Lectr.
Board, Mrs. Mary, BA	Tutor
Cheuy, Vilma, BA	Tutor

**Geography and Geology**

Davis, S. G., PhD MSc <i>Lond.</i> , FGS	Reader
Llewellyn, J., MSc <i>Wales</i> , FGS, FRAI	Sr. Lectr.
.....	(Geog.) Lectr.
.....	Lectr.
Rose, J., BSc <i>Lond.</i>	Lectr.
Dwyer, D. J., BA <i>Lond.</i>	Lectr.
Shepherd, A., MA <i>Oxon.</i>	Lectr.

So, C. L., BA	Asst. Lectr.
.....	Asst. Lectr.
Chiu, T. N., BA	Demr.

**History**

Harrison, B., MA <i>Dub.</i>	Prof.
Endacott, G. B., MA BLitt DipEd <i>Oxon.</i> , BA <i>Lond.</i>	Sr. Lectr.
Cranmer-Byng, J. L., MC, MA DiplOrientalLangs <i>Camb.</i>	Lectr.
Young, L. K., BA <i>Birm. &amp; Oxon.</i>	Lectr.
.....	Lectr.
Blackmore, M., MA <i>Camb.</i>	Asst. Lectr.
Iu, Mrs. Yan Kit, BA	Asst. Lectr.
Ng, P. Y. L., BA	Asst. Lectr.

**Mathematics**

Wong, Y. C., BSc <i>Sun Yat-sen</i> , PhD DSc <i>Lond.</i>	Prof.
.....	Reader
.....	Reader
Leung, K. T., DPhil <i>Zür.</i>	Sr. Lectr.
Leung, K. V., IngDoc <i>Paris</i>	Lectr.
Maunder, W. F., BSc(Econ) PhD <i>Lond.</i>	Lectr.
Tsou, S. T., BSc <i>Sun Yat-sen</i> , PhD <i>Liv.</i>	Lectr.
Chen, Mrs. Doris, BSc <i>Sun Yat-sen</i> , MSc PhD <i>Lond.</i>	Lectr.
Yeh, Z. Z., BA <i>Minn.</i> , MA PhD <i>Prin.</i>	
.....	Asst. Lectr.
Hui, C. S., DIC, SM <i>Harv.</i> , BSc(Eng)	Asst. Lectr.
.....	Asst. Lectr.
Chan, H. M., BSc	Asst. Lectr.
Chen, Y. M., BSc <i>Chiao-Tung</i>	Tutor
Leung, Miss Shau-king, BSc	Tutor
Young, S. H., BSc <i>Fukien Christ.U.</i>	Tutor

**Medicine**

McFadzean, A. J. S., MD <i>Glas.</i> , FRCP	Prof.
Wong, C. C., MB BS <i>Lond.</i> , MRCPEd	
.....	Sr. Lectr.
.....	Sr. Lectr.
Todd, D., MD, MRCPEd	Lectr.
Pan, Y. C., MB BS, MRCPEd	Lectr.
Kwaan, H. C., MD, MRCPEd	Lectr.
Aquinas, Sister Mary, MB BCh <i>N.U.I.</i>	†Lectr.
Choa, G., DTM&H <i>Liv.</i> , MB BS, MRCP	†Lectr.
Ho, H. C., MB BS, MRCP	†Lectr.
Thomson, G. M., MD ChB <i>Edin.</i> , MRCPEd	†Lectr.
Yap, P. M., MA MD <i>Camb.</i> , DPM <i>Lond.</i> (Mental Dis.)	†Lectr.
Yeoh, G. E., MB BS (Infectious Dis.)	†Lectr.
Young, Rosie T. T., MD, MRCPEd	Asst. Lectr.
Chau, Y. K., MB BS	Asst. Lectr.
Lai, K. S., MB BS	Asst. Lectr.

**Modern Languages**

Thompson, R. W., BA <i>Dub.</i>	Sr. Lectr.
Castel, A. P. A., LèsL Dipl'd'ÉtSup DESdeDroitPub&Prive <i>Paris</i>	Lectr.

**Obstetrics and Gynaecology**

Chun, Daphne W. C., MB BS, FRCSEd, FRCOG	Prof.
---	-------

Chew, W., MB BS	Lectr.	.....	Asst. Lectr.
Braga, Carolina A., MB BS	Lectr.	Chisholm, J., BSc PhD Glas.	Asst. Lectr.
Chan, D. P. C., MB BS, FRCSEd, FRFPGlas	Lectr.	Liang, C. C., BSc Tsing Hua, PhD Lond.	
Chow, K. K., MB BS	†Hon. Lectr.	Ch'iu, C. C., MB Sun Yat-sen	Asst. Lectr.
Chow, C., MB BS	†Lectr.	Huang, Miss Y. Y., BSc MD St. John's (Shanghai)	Demr.
Kwan, Dorothy, MB BS	†Lectr.	Lee Peng, Mrs. C. H., BSc Nat. CheKiang U., MS Kent State & Col.	Demr.
Tsao, Y. K., MB BS	†Lectr.	Chen, Susana, MB Fukien Prov.	Demr.
Tso, Edith H. Y., BS Yenching, MD Peking Union Med. Coll.	†Lectr.		
Kan, P. S., MB BS	Asst. Lectr.		

**Oriental Studies, see below****Pathology**

Kirk, R., OBE, BSc MD Glas., FRCP, FRFPGlas	Prof.
Teoh, T. B., PhD Leeds, MB BS	Sr. Lectr.
Huang, C. T., MB Lingnan, PhD Leeds	Sr. Lectr.
.....	Sr. Lectr.
Ma, L., BSc W.China Union, PhD Leeds	Lectr.
Pang, Lillian, BS MD Shanghai, PhD Leeds	Lectr.
Pang, T. C., MB BS	†Lectr.
Mallett, Barbara, BSc Oxon.	Asst. Lectr.
Chan, Miss C. H., MB Lingnan	Asst. Lectr.
Wong, Miss Ming Ming, BSc Wilmington, MSc Ohio	Demr.

**Philosophy**

Rose, Rev. Canon A. P., MA Oxon.	Lectr.
Agassi, J., MSc Jerusalem, PhD Lond.	Lectr.
Cronin, Rev. Fr. F., BA N.U.I.	Lectr.
Kvan, Rev. E., CandTheol Copenhagen	Lectr.

**Physics**

Chesterman, W. D., DSc Brist. FIP	Prof.
Hui, P. M., PhD Lond., BA	Sr. Lectr.
McLean, I. W., BSc Adel.	Lectr.
Blundell, Mary, BSc Manc.	Lectr.
.....	Asst. Lectr.
Leung, C. Y., BSc(Eng) Lond.	Demr.
Chik, K. P., BSc	Demr.
Lam, S. T., BSc	Demr.
Lee, A. H., BA Inter.Christ.Univ.Tokyo	Demr.
Chiang, K. E., BSc Nat.Norm.U., Peiping	Demr.

**Physiology**

Cheng, K. K., PhD Lond., MB BS	(Physiol.) Prof.
Walsh, E. O'F., BSc PhD Lond., FRIC	(Biochem.) Prof.
.....	(Pharmacol.) Prof.
Gray, Doris E., BA MSc PhD W.Ont.	Sr. Lectr.
Hsieh, C. L., BSc MD St. John's (Shanghai)	Sr. Lectr.
Gruhzit, C. C., BS MD Mich., PhD Syr.	Lectr.
Bard, S. M., MB BS	†Hon. Lectr.

**Political Science, see Econ. and Pol. Sci.****Social Medicine**

Teng, P. H., DPH Lond., MB BS	†Prof.
She, Louise, BA Yenching, MA Mich.	Lectr.
Pun, Miss Siu-Fun, MA Col., BA	Asst. Lectr.
18 Lectrs.† & Demrs.†	

**Surgery**

Stock, F. E., JP, MB BS Lond., FRCS, FACS	Prof.
Hodgson, A. R., MB ChB Edin., FRCSEd (Orthop. S.)	Sr. Lectr.
Hui, K. K. L., MB BS, FACS	Sr. Lectr.
.....	Sr. Lectr.
Fung, J. H. Y., MB BS, FRCS, FRCSEd	Lectr.
.....	Lectr.
11 Lectrs.†	

**Zoology**

Barker, D., MA DPhil Oxon.	Prof.
Ommanney, F. D., PhD Lond.	Reader
Thornton, I. W. B., BSc PhD Leeds	Sr. Lectr.
Strahan, R., MSc W.Aust.	Lectr.
Hill, D. S., BSc Hull	Lectr.
Marshall, A. T., BSc Leeds	Asst. Lectr.
Adal, M. N., BSc	Demr.
Chin, N. K., BSc	Demr.
Gidumal, Miss Janki, BSc Bom.	Demr.

**INSTITUTE OF ORIENTAL STUDIES**

Drake, F. S., BA BD DipEd DipGeog Lond.	Dir.
Tregear, Mary, BA Lond.	Museum Curator
Ma, M., BA Yenching	Principal of Lang. Sch.
Chow, Mrs. Josephine, BA Ginling	Tutor
Chou, H., BA Yenching	Tutor
Lau, S., BA Sun Yat-sen	Tutor
Liu, S. C., BA Wis., MA Calif.	Tutor
Lou, E. H., BSc Peking, MA Col.	Tutor
So, M. Y., LLB Chung Shan	Tutor
Chang, Mrs. A., BA Nanking	Tutor
6 Temp. Tutors	

**EXTRA-MURAL STUDIES**

Hughes, I., LLB Wales	Dir.
Lai, T. C., MA	Asst. to Dir.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : A. C. T. Rowe-Evans, JP, BA *Lond.*; Dep. Bursar : N. Gillanders; Admin. Assts. : Mrs. Ellie Alleyne, BLitt *Oxon.*, BA; N. H. Young, CertEd *Lond.*, BA. Dep. Librarian : G. W. Bonsall, MA *Camb.*; Asst. Librarians : Miss Tung-King Ng, BA; Mrs. C. Grace Wen, MA *Mich.*, MS *Drexel Tech. Inst.* Accountants : M. K. Cheng; W. S. Chien. Inspr. of Works : M. Antonoff. Controller of Gdns. : C. W. Pan, BSc(Hort) *Nanking*. Univ. Health Officer : S. M. Bard, MB BS; Asst. Univ. Health Officer : Irene Osmund, MB BS. Dir. of Physical Educn. : J. H. Duthie, DipPhysEd *Birm.*; Asst. to Dir. of Physical Educn. : W. K. Low. Publisher to

Univ. Press : H. Vetch.

WARDENS OF HALLS OF RESIDENCE. (*Men*) : G. B. Endacott, MA BLitt DipEd *Oxon.*, BA *Lond.* (May Hall); R. H. Leary, BSc *W.Aust.* (Lugard Hall); R. Oblitas, MA *Camb.* (University Hall); D. L. Rogers, BA *Leeds* (Morrison Hall); R. Harris (Ricci Hall); Rev. E. Kvan, CandTheol *Copenhagen* (St. John's College); S. G. Davis, PhD MSc *Lond.*, FGS (Hornell Hall, non-residential). (*Women*) : Mrs. Mary Visick, MA BLitt *Oxon.* (Lady Ho Tung Hall); Mrs. Mary B. Rose (Duchess of Kent Hall, non-residential).

## GENERAL INFORMATION

In 1887 Sir Patrick Manson, GCMG, started the Hong Kong Coll. of Medicine for the Chinese in the Alice Memorial Hosp. opened the same yr. on a London Missionary Soc. foundation. As students of nationalities other than Chinese began to join the coll., the words 'for the Chinese' were struck out of the title in 1907, and the institution was incorporated as 'The Hong Kong College of Medicine'.

The coll. offered to amalgamate in a univ., and in March 1911 the Univ. of Hong Kong was incorporated by a local ordinance, embodying the principle of religious tolerance and racial neutrality. H.M. govt. guaranteed funds for the foundation of 'King Edward VII' scholps., awarded on entrance exam. results. The univ. was opened in March 1912, in a bldg. donated by Sir Hormusjee Mody, with facs. of med. and engin. A fac. of arts was organized in the following yr., a fac. of sci. in 1939 and a fac. of archit. in 1951. The last was combined with the fac. of engin. in 1958.

A plan has been adopted for the univ.'s expansion which will result in the increase of undergrad. nos. to about 1800 by 1965. Degree courses in electr. and mech. engin. have been reinstated, and plans are in preparation for degree courses in dent.

CONSTITUTION. The supreme governing body of the univ. is the court, with the governor of Hong Kong as chancellor and chairman. The executive body is the council, composed of the vice-chancellor, the treasurer, the colonial sec., the deans of the facs., 4 members apptd. by the chancellor, 3 elected by the court and 1 elected by the senate. The senate, which deals with academic matters, is composed of the vice-chancellor, the dir. of educn., the profs. and the hds. of teaching depts. who are not profs.

INCOME (1958-59). (HK \$16 = £1.) Interest on investments, \$2,724,529; fees, \$1,852,265; govt. subventions, \$5,612,500; other sources, \$242,223; total, \$10,431,517.

FACULTIES AND DEANS. *Arts*, Prof. F. S. Drake (*Chinese*); *engin. & archit.*, Prof. S.

Mackey (*engin.*); *med.*, Prof. F. E. Stock (*surg.*); *sci.*, Prof. D. Barker (*zool.*).

LIBRARIES. Univ. libr. : over 107,000 vols. in Engl. and other European langs.; receives over 1200 journals; Fung Ping Shan Chinese section : over 117,000 Chinese vols. (incl. 2300 Japanese vols.) and receives 165 current Chinese journals. Sp. collections incl. Hankow collection of invaluable source material on relations between China and the west during the Ch'ing dynasty; and Morrison collection of 2748 vols. incl. some of antiquarian value in the fields of oriental and biblical lit.

TEACHING HOSPITALS. Queen Mary H., Tsan Yuk H.

INSTITUTE OF ORIENTAL STUDIES (*see* p. 368). The Inst. of Oriental Studies provides facilities for study of the Mandarin and Cantonese langs. to colonial administration service officers and lang. officers of the army and air force, and for res. in various fields of Far Eastern study.

ADMISSION. Minimum qualifs. : attainment of age 17; medical exam. of fitness; success in the Univ. of Hong Kong matric. exam. (passes in Engl., a second lang., a sci. or maths. subj., 2 subjs. at the advanced level and at least 3 subjs. at one exam.). In addn. there are various fac. requirements.

EXTERNAL STUDENTS. Applicants whose educnl. standards in Engl. lang. and in the subjects of their choice are considered adequate by the hd. of dept. concerned may be admitted as external students but may not take exams. of the univ. There are about 20 external students, mostly attending courses in the arts subjects, and 31 lang. sch. students.

FIRST DEGREES. 3 yrs.—BA (pass, hons.), BSc general, BSc(Eng); 4 yrs.—BSc special; 5 yrs.—BArch (pass, hons.); 6 yrs.—MB BS. The min. residence in the univ. for graduation is 3 yrs., except where individual exemption is given. Students reading for BA may elect courses from

one, two, or three of the following: Chinese, econ. & pol. sci., Engl., geog. & geol., hist., maths., mod. langs., philos. Courses for BA pass and hons. are identical (hons. awarded on result of final exam.).

Students in sci. courses are required to graduate with a BSc general degree before they may be permitted to read during 1 further yr. for a BSc special degree in chem., phys., bot., zool., pure maths., or appl. maths.

**HIGHER DEGREES.** MA, MSc, MSc(Eng)—conferred on grads. of the univ. or of approved univs. after advanced work extending over at least 2 yrs. MD, MS—conferred on grads. of the univ. of 5 yrs.' standing, or in special cases of 3 yrs.' standing. MArch—conferred on hons. grads. of the univ. or of approved univs. after 1 or 2 yrs.' advanced work. DSc—conferred on grads. of the univ. of at least 5 yrs.' standing on evidence of publication of authoritative contributions to learning.

**DIPLOMAS.** Dipl. in educn.—1 yr.; dipl. in soc. study—1 yr.; candidates must be grads. of the univ. or approved univs.

**CERTIFICATE.** Soc. study—2 yrs.; candidates must be matriculated students of the univ. Educn.—1 yr. full-time, or 2 yrs. pt.-time; candidates must be grads. of approved univs., and must be grads. of at least 5 yrs.' standing for the pt.-time course.

**STUDY LEAVE** may be granted where it can be arranged without serious inconvenience to the work of the univ.; terms of leave are at discretion of the council.

**FEES** (HK \$16=£1). Matric., min. entry fee: \$50; caution, \$100; composition (incl. registration, tuition, lab. or workshop, exam., and student health): BA (hons. or pass) (3 yrs.), \$3160; BSc general (3 yrs.), \$3760; BSc special (4 yrs.), \$5010; MB BS (5 yrs.), \$6260; BSc(Eng) (4 yrs.), \$4610; BArch (5 yrs.), \$5710; higher degree exams.: MA, MSc, MSc(Eng), MArch, \$400; DSc, MD, MS, \$600. Graduation: BA, BSc, MB BS, BSc(Eng), BACh, \$100; MA, MSc, DSc, MD, MS, MSc(Eng), MArch, \$200.

**ACADEMIC YEAR.** Sept. to June, 3 terms of 10, 9 and 9 wks. 1960-61: Sept. 1-Dec. 20; Jan. 1-March 19; March 26-May 27).

**EXTRA-MURAL COURSES.** Courses in accty. and

secretarial practice; lang. courses; various other occasl. and refresher courses.

**POSTGRADUATE AWARDS.** Two 2-yr. scholps awarded by H.K. govt. each yr. for postgrad study or res. open to applicants from other part of the Commonwealth (Commonwealth Scholarship & Fellowship Plan).

**GRADUATES' ASSOCIATIONS.** Hong Kong Univ alumni assocn. of Hong Kong; pan-Malayar Hong Kong Univ. alumni assocn. (branch assocns. of S. Malaya, Central Malaya, Perak and North Malaya); Hong Kong Univ. alumni assocn. in the U.K.

**HALLS OF RESIDENCE.** For men: in univ estate—May Hall (accomm. for 90), University Hall (52), Lugard Hall (75)—fees, \$180 p.m. Morrison Hall, Hatton Rd. (54), conducted by London Missionary Soc.—fees, \$200 p.m.; Rice Hall, Pokfulam Rd. (62), conducted by Jesuit Fathers—fees, \$200 p.m. For men and women: St. John's Coll., Pokfulam Rd. (116), Anglican coll. of residence—fees, \$211 p.m. For women: Lady Ho Tung Hall, Pokfulam Rd. (100)—fees, \$220 p.m. (For wardens, see 'Admin. and other Staff', *above*.)

**STAFF RESIDENCES.** The univ. controls 42 houses and flats for teaching staff situated within the univ. estate, and 14 outside it.

**STUDENT HEALTH SERVICE.** Provides for initial exam. on admission, required vaccinations and inoculations, and professional services up to specialist level.

**STUDENT ATHLETICS.** Cricket, football, hockey, swimming, tennis, basket-ball, badminton, etc.

**STUDENTS' UNION.** The union was establd. in 1912. Membership is obligatory. It is controlled and directed by a council, the pres and hon. sec. of which, and also 4 indep. members, are elected by the undergrads. The union possesses a Jordan memorial library.

**PUBLICATIONS.** *Calendar*; *Handbook of the Matric. Exam.*; *Matric. Exam. Question Papers*; *Departmental Reports*; *Journal of Oriental Studies*; *Univ. Gazette*; *Univ. Fisheries Journal*; *Contemporary China*; *Union Magazine* (students).

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## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** China Med. Bd. of N.Y., US\$15,000 to dept. of med. for purchase of refrigerated centrifuge and establishment of radio-isotope lab., US\$25,000 for supplies and equipment for depts. of anat., physiol., pathol. and obstet. & gynæcol., and travelling grants to profs. D. W. C. Chun and K. S. F. Chang; China Light & Power Co., HK\$100,000 for equipment of steam lab. in the fac. of engin. & archit.

**RESIGNATIONS.** Dr. H. E. Reiss (obstet. &

gynæcol.), apptd. pt-time consult. in obstet. & gynæcol., Hackney Hosp., London; M. Hugo-Brunst (archit.); Dr. T. R. Tregear (geog.), apptd. warden, Woodbrooke Coll., Birm.; Prof. R. W. Parsons (phys.), apptd. reader in phys., Queensland; Mrs. E. Johnston (zool.); Dr. O. K. Skinsnes (pathol.), apptd. full prof. pathol., Chic.; Dr. K. K. Chow (obstet. & gynæcol.), apptd. H.K. govt. specialist.

**DEATHS.** Sir Shouson Chow (life member of

court); Wong Sik Ling (lectr., principal of lang. sch. of Inst. of Oriental Studies); Sir Man-Kam Lao (member of court); Un Po (lectr. in phys.); Ma Kiam (prof. of Chinese, 1948-50); T. K. David (lectr. in philos.).

HONORARY DEGREES. *L.I.D.*—M. W. Turner, treasurer of univ. since 1952.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	826	99
Women . . .	303	40
Total . . .	1129	139

Distribution by Faculties. *Arts*, 608; *engin.* & *archit.*, 141; *Inst. of Oriental Studies*, 31;

*med.*, 299; *sci.*, 163; *soc. studies*, 26. Total: 1268.

*Included in the figures above are :—*

Postgraduate students, 150.

New admissions, 474.

Students from other countries, 101. (Country from which largest number came: Fed. of Malaya, 73).

DEGREES AWARDED (1958-59). *Arts*: BA, 104; MA, 2. *Engin. & archit.*: BSc(Eng), 20; BArch, 11. *Med.*: MB BS, 49; MD, 3. *Sci.*: BSc, 30; BSc (hons.), 7.

DIPLOMAS AWARDED (1958-59). DipEd, 33; DipSS, 5; DipPharm, 1.

CERTIFICATES AWARDED (1958-59). CertEd, 20; CertSS, 3.





# INDIA

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*The places named are seats of university institutions as numbered overleaf*

# THE UNIVERSITIES OF INDIA

[Contributed by Mr. S. R. Dongerkery, Vice-Chancellor of Marathwada University]

**HISTORY.** Modern university education in India dates from the foundation of the universities of Calcutta, Bombay and Madras in 1857. Educational institutions comparable to the universities of to-day did not exist in pre-Aryan India. Glimmerings of the idea of a university can be seen in the colleges and schools for advanced study attached to temples, where the Aryans provided education in religious and secular subjects for their youth. The *gurukula* where the *guru* or teacher imparted the knowledge of the Vedas to the *shishyas* or pupils entrusted to his care was more a residential college than a university, inasmuch as, beyond providing intimate contacts between the teacher and his pupils, it did not afford opportunities for the association of teachers. Such opportunities were, however, provided by *parishads* or conferences of teachers and scholars organized from time to time. By granting recognition to scholars who exhibited their learning before them, these *parishads* performed one of the functions of a modern university.

Takshasila or Taxila, in Kandahar, the most important of the earliest known seats of learning in ancient India, became a university centre in the seventh century B.C. It flourished for nearly ten centuries as a university to which scholars and students were attracted from all parts of India. Similar university centres sprang up at Ujjain, Valabhi, Vikramasila, Banaras and Kanchi (Kanchipuram). At one time, the University of Nalanda in the north (Bihar) and that of Kanchi in the south attained celebrity as centres of Indian culture and scholarship.

With the spread of Buddhism, the *viharas*, or monasteries, developed into centres of learning which attracted lay students by the fame of their teachers. These *viharas*, which, unlike the old *gurukulas*, had many teachers in residence, approximated to the modern idea of a university. About A.D. 425, Kumaragupta I, a devout Hindu, founded the *sangharama* (college) of Nalanda as a residential university. Before him, the Emperor Asoka had built a temple and a *vihara* at the same place. Kumaragupta's successors built more *sangharamas*. The University of Nalanda possessed eight *sangharamas*, three extensive libraries and an observatory. It flourished till the thirteenth century A.D., when it was destroyed by invaders. Theology and philosophy were compulsory subjects of study at the university. Great importance was also attached to the teaching of the various systems of logic. The curricula included astronomy, grammar and medicine. The reputation of the great scholars who taught at Nalanda spread not only throughout the length and breadth of India, but even beyond its borders,

and attracted students from China, Tibet and Ceylon. Nalanda had, at one time, as many as ten thousand students and teachers. The method of instruction consisted of individual tuition and guidance rather than formal lectures. The students derived great benefit by listening to the discussions which took place among their teachers. Close personal contacts were established between the teachers and the taught.

Some of these ancient seats of learning continued to thrive even after the Muslim conquest of India, although the Muslim rulers encouraged the setting up of *madrasahs*, or colleges, in different parts of India, e.g. at Lahore, Delhi, Rampur, Lucknow, Allahabad and Jaunpur. The subjects of study in the *madrasahs* included theology, grammar, logic, rhetoric, law, geometry, astronomy and metaphysics. While Sanskrit was the medium of instruction in the Hindu centres of learning, Arabic was the chief medium in the *madrasahs*.

When the East India Company came on the scene, it was in no hurry to change the indigenous systems of education. On the contrary, it established the Calcutta Madrasah and the Banaras Sanskrit College on the traditional pattern, with the avowed purpose of preserving and cultivating the laws, literature and religion of the people and training young Indians for the administrative and judicial services. The renewed charter of the East India Company, in 1813, contained a clause stipulating that 'a sum of not less than one lakh of rupees in each year shall be set apart and applied to the revival and improvement of literature, and for the introduction and promotion of knowledge of the sciences among the inhabitants of the British territories in India'. Under the leadership of Raja Rammohun Roy, the Hindu College was founded in Calcutta, in 1817, to provide instruction in the European languages and science. In Bombay, Mountstuart Elphinstone advocated the establishment of schools for teaching English and the European sciences. The Elphinstone Institution was founded in Bombay, in 1834, to train persons for high employment in the civil administration. European missionaries, too, were active during this period, establishing schools in the presidency towns for imparting western education through the English language. A controversy arose between those who wanted to impart instruction through Sanskrit and Arabic and those who wanted to do so through English, which provided the occasion for Macaulay's famous minute. Endorsing this minute, the governor-general in council passed a resolution on March 7, 1835, declaring that the great object of the British government ought to be to promote

European literature and science among the Indian people and to employ all funds allocated to education on English education alone. The controversy, in Bombay, over the medium of instruction was settled in favour of English, in 1843. In 1845 the Bengal Council of Education proposed to the court of directors of the East India Company the establishment of a university at Calcutta, but the proposal was turned down as premature.

The next landmark is the dispatch of 1854 of Sir Charles Wood, sometimes called the 'Magna Carta of English education in India', but which may more accurately be described as the *fons et origo* of the modern universities of India. This historic document impressed upon the government of India the duty of creating a properly articulated system of education from the primary school to the university, and recommended, *inter alia*, the institution of universities in the presidency towns of Calcutta, Bombay and Madras. It stated that the object of establishing universities was to encourage 'a regular and liberal course of education by conferring academical degrees as evidences of attainment in the different branches of arts and science'. It held out the University of London as a model which might be followed with advantage in India. The dispatch further advised the institution of professorships at the universities in various branches of learning. The educational policy outlined in it was implemented by the establishment of the universities of Calcutta, Bombay and Madras in 1857.

The jurisdiction of the University of Calcutta, extending from the Punjab in the west to Burma in the east, covered practically the whole of north India, while that of the other two universities was restricted to the respective presidencies. For twenty-five years these three universities catered for the educational needs of the whole country. The universities continued to be purely examining and affiliating bodies. To meet the increasing needs of the student population as well as to relieve Calcutta University of its heavy burden, two new universities were created—the University of the Panjab (now in Pakistan), in 1882, and the University of Allahabad, in 1887. Both these universities followed the example of the three earlier ones by confining their activities to examination and affiliation. No addition was made to these universities till 1916, although, meanwhile, higher education was rapidly expanding.

The next landmark in university education is the appointment, during Lord Curzon's viceroyalty, of the Universities Commission of 1902. The important recommendations of this commission were (i) that the senates of the universities should be limited in size, (ii) that teaching powers should be conferred on the universities, (iii) that they should be given greater control over the affiliated colleges and (iv) that they should undertake research. These reforms, incorporated in the Indian Universities Act of 1904, enabled the five existing universities to improve their efficiency by assuming teaching functions, exercising an

effective check over their affiliated colleges and encouraging research.

The next stage in the progress of university education is indicated by the government of India's resolution, published in 1913, which urged that the area of jurisdiction of the existing affiliating universities be reduced so as to provide a separate university for each of the leading provinces, and that simultaneously new local teaching and residential universities be created in each province in harmony with the best modern educational opinion. Government announced their intention to establish teaching and residential universities at Dacca, Aligarh and Banaras, and additional universities at Patna and Nagpur, and expressed their desire that the existing universities should provide and develop teaching facilities and encourage a corporate life which would advance higher study and create an atmosphere conducive to social and moral as well as intellectual progress.

Banaras Hindu University was founded in 1915. It was intended to be a live centre of Hindu culture and to promote the study of the applied sciences, and was the first denominational university to be established in India. Patna University was founded, in 1917, as an affiliating university to cater for the educational needs of the new province of Bihar and Orissa. Aligarh Muslim University, which developed from the Mahommedan Anglo-Oriental College, founded in 1875, was established in 1920 to serve the special cultural and educational needs of the Muslim community. In 1916, the University of Mysore, the first university in an Indian state, was created by the Mysore legislature.

In 1917 the government of India appointed the Calcutta University Commission under the chairmanship of Sir Michael Sadler, which was to have a profound influence on the subsequent progress of secondary and university education in India. The terms of reference of this commission included problems of secondary education as well as those covering all aspects of collegiate and university education. The recommendations of the commission have affected subsequent university legislation in different parts of India. One was the creation of intermediate colleges and boards of secondary and intermediate education. Another was the creation of teaching and residential universities. The universities of Aligarh, Lucknow, Dacca (now in Pakistan) and Delhi, established between 1920 and 1922, followed the model suggested by it. The commission recommended less government control, a greater participation by teachers in the government of the universities, a closer co-operation between the universities and the colleges and the appointment of full-time vice-chancellors. Most of these reforms have been adopted by the older universities and incorporated in the constitutions of the more recent ones. Osmania University was founded at Hyderabad (Deccan), in 1918, before the Calcutta University Commission's report was published. An outstanding feature of this university was the adoption of Urdu, the language

of the state, as the medium of instruction. Since the merger of the state in the Indian union, English has been adopted as the medium of instruction in the colleges of the university, while in a few of them parallel classes are conducted in Hindustani.

The decade following the publication of the Sadler Commission's report witnessed a spate of university activity throughout the country. Aligarh Muslim University (1920) and the universities of Lucknow (1921), Dacca (1921), Delhi (1922), Nagpur (1923), Andhra (1926), Agra (1927) and Annamalai (1929) followed one another in rapid succession. Many of these were unitary, teaching and residential universities. The years between 1929 and 1937 were lean years for university activity. The founding in 1937 of the University of Travancore (now the University of Kerala), the third in an Indian state, gave a signal for the revival of the university movement which, after a slight set-back during the second world war, gained renewed vigour, resulting in the establishment of Utkal University (1943), Saugar University (1946), Rajasthan University (1947). Since the attainment of independence by India, nineteen more universities have come into existence, namely, Panjab University (1947), Gauhati University (1948), the University of Poona (1948), Jammu and Kashmir (1948), Maharaja Sayajirao University of Baroda (1949), Roorkee University (1949), Gujarat University (1949), Karnatak University (1950), Shreemati Nathibai Damodar Thackersey Women's University (1951), Visva-Bharati (1951), Bihar University (1952), Sri Venkateswara University (1954), Jadavpur University (1955), Sardar Vallabhbhai Vidyapeeth (1955), Gorakhpur University (1956), Vikram University (1957), Jabalpur University (1957), Kuruksetra University (1957) and Marathwada University (1958).

The Shreemati Nathibai Damodar Thackersey Women's University and Visva-Bharati, though established by private agencies in 1916 and 1921 respectively, became statutory universities recently under acts passed in 1949 by the Bombay government and in 1951 the central government respectively. Sardar Vallabhbhai Vidyapeeth, which was an offshoot of Gujarat University, is a teaching and affiliating university.

In seventeen universities (Andhra, Bombay, Calcutti, Delhi, Gauhati, Jadavpur, Jammu and Kashmir, Karnatak, Kerala, Madras, Marathwada, Osmania, Panjab, Rajasthan, Roorkee, Sri Venkateswara and Utkal) English is the sole medium of instruction. In the others it is English and Hindi or English and the mother-tongue, alternatively, except in the Shreemati Nathibai Damodar Thackersey Women's University where it is the student's mother-tongue, and the Sardar Vallabhbhai Vidyapeeth where it is Hindi.

Four important reports dealing with university education were published after that of the Calcutta University Commission, viz. (1) the Hartog Committee's report (1929), (2) the report of the

Panjab University Committee (1933), (3) the report of the Central Advisory Board of Education on post-war educational development in India (1944) (known as the Sargent report) and the report of the University Education Commission (1949), presided over by Dr. Radhakrishnan.

The Hartog report was in the nature of a review of the growth of education in British India. It contains some observations on the importance of a corporate life in universities. The authors also observe that the requirements of India cannot be met solely by unitary universities, and that the affiliating university is likely to remain for many years. The Panjab University Enquiry Committee's report did not produce any appreciable change in the constitution of that university on account of the unwillingness of the senate to implement its recommendations, valuable though they were. The Sargent report drew attention to crying defects in the Indian university system, such as the undue importance attached to examinations, the emphasis on book-learning as contrasted with original thinking, the lack of personal contacts between teachers and students, the dependence of universities on examination fees, the absence of schemes for assisting poor but able students and the need for additional universities. Among its important recommendations were the following: (1) that the duration of the degree course should be reduced from four to three years by adding one year of the intermediate course to the schools without lowering standards, (2) that one-third of the students at universities should receive assistance from government by way of scholarships and maintenance grants, and (3) that a University Grants Committee on the lines of the U.G.C. of Great Britain should be constituted.

The report of the University Education Commission (1949) is the most recent, authoritative and comprehensive document on the subject of university education in India. The second world war and the achievement of India's independence, accompanied by the partition of the country, hastened the need for a complete and comprehensive enquiry into all aspects of university education, as it was realized that the remoulding of the country's educational policy to suit her future requirements was one of the first essential steps in her national progress. The report gives to the teacher the place which, though due, has been denied to him hitherto in the educational structure, a place above books and curricula, buildings and equipment, administration and the rest. It recommended suitable scales of salary for university teachers in keeping with their importance and status so that the best men and women would be attracted to the profession, the raising of the age of superannuation from 55 to 60, with extensions up to 64 in special cases, so that ripe scholarship and experience should not be lost to the country, and more congenial conditions of work. Deploing the colossal wastage resulting from the failure of students at university examinations, the commission recommended the raising

of the level of education in secondary schools, the provision of occupational institutes to divert students, unfit for university education, to suitable vocations, the raising of the standard of admission to universities, the increase in the duration of pass and honours degree courses from two to three years, the raising of the percentage of marks prescribed for passing degree examinations, credit for class work throughout the degree course and other reforms in the examination system, restrictions on the admissions to colleges, compulsory tutorial classes for undergraduates and the introduction of courses in general education. One of the important chapters of the report is on the problem of the medium of instruction which is facing the Indian universities to-day. While recommending the compulsory study of English as a subject, the commission realized the inevitability of English giving place as the medium of instruction to an Indian language, sooner or later, and accordingly recommended that it be replaced by an Indian language other than Sanskrit, that Hindi be developed through the assimilation of words from different sources, including those forming the international technical and scientific terminology, and that universities should be free to use Hindi as the medium of instruction for some or all subjects as an alternative to the regional language. The commission pointed out that pupils at the higher secondary and university stages will need to learn at least three languages: the regional language, the federal language (Hindi) and English. The report recommended the inclusion of university education in the concurrent legislative list (the list of matters falling within the jurisdiction of the central as well as the state legislatures) and the contribution by the centre (to the extent of 50 per cent.) to the cost of postgraduate and research work in the universities, in addition to capital grants for buildings and equipment and the setting up of a University Grants Commission.

Since the publication of the report of the University Education Commission in 1949, two important events have occurred in the educational history of India, which have had far-reaching consequences on university education in the country, namely, the publication of the report of the Secondary Education Commission in 1952-53 and the setting up of a University Grants Commission in 1956 by an act of the Indian parliament.

By its terms of reference the Secondary Education Commission was asked to report on the position of secondary education in India in all its aspects and to suggest measures for its reorganization and improvement. In making its recommendations, the commission, while expressing its anxiety not to encroach on the purview of the universities, nevertheless strongly advocated the advisability of abolishing the intermediate stage in the four-year degree course in arts and science, increasing the period of secondary education by one year, and planning a three-year degree course at the university stage. By a strange irony, the universities, with one solitary exception (Bombay),

agreed in principle to accept the pattern of the three-year degree course recommended by the commission, and many of them have implemented this course long before the introduction of the reform of the addition of one year at the secondary stage on a wide scale. The result has been that the affiliated colleges have undertaken the responsibility of conducting the pre-university course, and may be obliged to continue to do so for a long time.

By virtue of the enlarged powers given to it by statute, the University Grants Commission is able effectively to promote and co-ordinate university education, maintain standards and assist universities with funds to expand their activities. Realizing the importance of raising standards of university education, the commission has given top priority to the improvement of libraries and laboratories, by making grants to universities and to affiliated colleges, and of the quality of teaching by subsidizing the increased scales of salaries of university and college teachers. It has also made grants to affiliated colleges to meet the additional expenditure incurred by them in introducing the integrated three-year degree course. It also makes grants to universities for postgraduate work and research. The universities find it much easier to get financial assistance from the commission than from the government direct, on account of the less formal relations and better understanding existing between them and the commission, with which they are in close and constant touch (*see also* p. 379).

**CONSTITUTION.** (a) *Structure of universities.* Indian universities are of four main types, viz. (i) unitary teaching, (ii) federal teaching, (iii) teaching and affiliating and (iv) purely affiliating. The majority of them are teaching and affiliating, that is, they carry on teaching activities in their own departments and/or through constituent colleges, the instruction being given either by their own teachers or by teachers of constituent colleges recognized by them. They also affiliate colleges within their jurisdiction which teach under university supervision. The colleges have to abide by their conditions of affiliation with regard to finance, adequacy of staff, equipment, libraries, laboratories, buildings and hostels. In some universities falling in this category the central core predominates, as in Andhra University or in Poona University in the Poona area; in others, the affiliated colleges do most of the teaching, the university's teaching being restricted to a few departments. There are eleven unitary teaching universities in India. A unitary university has been defined as 'one, usually localized in a single centre, in which the whole of the teaching is conducted by teachers appointed by or under the control of the university'. The control of the teachers, the teaching, the courses of study and the administration are centralized in the university. A unitary teaching university is usually residential, and vice versa. Aligarh, Allahabad, Annamalai, Banaras, Baroda, Jadavpur,

Kuruksetra, Lucknow, Patna, Roorkee and Visva-Bharati conform to this type. Most of the Indian universities began as affiliating universities, being mainly concerned with laying down courses of study and examining students sent up by their affiliated colleges. They had no control over the teaching imparted in the affiliated colleges and were, for all practical purposes, no more than external, examining bodies. Gradually these universities began to assume teaching functions, and associated the teachers in the affiliated colleges with the framing of their courses and their general administration, until to-day there are only two purely affiliating universities (Agra and Vikram) in the country. The University of Bombay, as reconstituted in 1953, is a federal, teaching university as is the newly constituted University of Kerala (formerly the University of Travancore). Its colleges, in which all the undergraduate teaching is carried on, are constituent colleges, enjoying a great measure of autonomy in their internal administration, but they can be required to pool their resources for both post-graduate and post-intermediate teaching. Their principals are *ex-officio* members of the senate, the academic council and boards of university teaching and the heads of their departments are *ex-officio* members of the university's boards of studies. There is thus a close link between the university and its colleges. Poona University, too, so far as the Poona area is concerned, is a federal, teaching university, though it is an affiliating university in relation to the colleges situated outside Poona.

(b) *Internal government.* The main authorities of the universities and their relation to one another follow more or less the same pattern with minor variations. With a few exceptions, the governor of the state is the *ex-officio* chancellor or nominal head of the university. The chief academic and executive officer of the university is the vice-chancellor, who in most universities to-day is a full-time, paid officer, appointed for a fixed term. His appointment is made by the chancellor from a panel of names submitted by the supreme governing body. In a few universities (Bombay, Nagpur, Poona, Gujarat, Baroda and Shreemati Nathibai Damodar Thackersey Women's Universities and Sardar Vallabhbhai Vidyapeeth) the appointment is still an honorary one. Each university has at least three authorities, viz. the senate or court, the syndicate or executive council, and the faculties. In some there is also an academic council. The senate or court is the supreme governing body, which holds the purse-strings and decides broad questions of policy. Its membership is large, represents a variety of interests and includes *ex-officio*, nominated and elected members. Heads of government departments, university professors and principals of colleges are included among the *ex-officio* members. A certain number are nominated by the chancellor and the rest are elected by university and college teachers, headmasters, registered graduates, local bodies, associations, the state legislature and donors of large amounts. The

syndicate or executive council, which runs the day-to-day administration and handles its finances, is perhaps the most effective body in a university. It consists of the vice-chancellor, the director of public instruction, elected representatives of the supreme governing body, the faculties and principals. The academic and the lay element in it are usually evenly balanced. The faculties usually function through boards of studies in the several subjects included in them. They and the academic council, which consists mainly of teachers and heads of affiliated institutions, deal with purely academic questions, such as the framing of courses, the organization of teaching and regulation of examinations. In a few universities there are special boards of university teaching. Except in Roorkee University and the Shreemati Nathibai Damodar Thackersey Women's University, which have each one faculty only, namely, engineering and arts respectively, the number of faculties varies from four to twelve.

*RELATIONSHIP TO GOVERNMENT.* Only four Indian universities, viz. Aligarh, Banaras, Delhi and Visva-Bharati, were established by acts of the central government. All the other universities have been created by state legislatures. In the sense that they are dependent on the central or the state government, as the case may be, for their constitution and powers, they may be said to be under government control, but they enjoy the greatest measure of autonomy in their internal administration. They stand midway between the British and the Continental universities. While government control over them is nothing like the all-pervading control of the state over the universities of France or Italy, they do not enjoy the full freedom of the British universities. The control of government is more indirect than direct. Thus the governor of the state is, as a rule, the chancellor and he appoints the vice-chancellor. When the vice-chancellor is nominated from a panel, the final power of approval or veto rests with the chancellor. The chancellor's approval is necessary in some universities before a statute or regulation passed by their supreme governing bodies can become effective. In many universities the final power with regard to the affiliation and disaffiliation of colleges is in the hands of the government. Heads of certain government departments are *ex-officio* members of the supreme governing bodies, and the chancellor has the right to nominate a number of their members. The president and the governors of states are usually invested with visitatorial powers or powers of enquiry and inspection, though these are rarely exercised. The accounts of the universities are subject to government audit.

*Government Grants and the University Grants Commission.* Under the Indian constitution, university education, excluding the four central universities, is a state subject. The universities have to look to their state governments for financial assistance. They also receive special grants, mainly for postgraduate and research work, from



the funds placed at the disposal of the University Grants Commission by the government of India.

A University Grants Committee, consisting of four members, was formed in 1945 to advise the central government on the grants to be made to central universities. In 1946, and again in 1947, its membership was increased and it was empowered to deal with the other universities also. Its chairman was not a full-time officer. The Radhakrishnan commission recommended drastic changes in the constitution and powers of this committee, the most important of which was that it should be an expert body with power to allocate grants, within the total limits set by the government, instead of merely recommending their allocation to the finance ministry. In November 1953 the University Grants Commission, consisting of a full-time chairman and secretary and eight members, was set up by a resolution of the government of India to act as an expert body of advisers to the central government on the allocation of funds for grants-in-aid to the universities, and the disbursements of grants out of the funds placed at its disposal. By act of parliament (no. 3 of 1956) the commission was made a statutory body, consisting of nine members, including the chairman, whose office is a whole-time, salaried one. All the members, including the chairman, are appointed by the central government. Not more than three of them must be chosen from among the vice-chancellors of universities; two must be officers of the central government. The remaining members must be educationists or persons who have obtained high academic distinction. The commission is assisted in its work by a full-time paid secretary and staff. It is empowered to associate with itself persons whose assistance or advice it may need. Its duties and functions are to enquire into the financial needs of universities, allocate and disburse out of its fund

grants to the central universities for their maintenance and development and to other universities for their development, advise the central and state governments on the allocation of grants, establishment of new universities, or proposals for expanding the activities of existing universities, collect information from and on behalf of universities and generally to take steps for the promotion and co-ordination of university education and maintenance of university standards. The University Grants Commission is under a statutory obligation to present annual reports of its activities to the central government. These reports are laid before both houses of parliament. Three such reports have so far been published. Mr. C. D. Deshmukh is the chairman of the commission and Mr. S. Mathai is its secretary. The address of the commission is Old Mill Road, New Delhi, 2. Realizing the importance of raising the standards of education in the universities, the University Grants Commission has decided to give top priority to the improvement of libraries and laboratories and of the quality of teaching in the universities in its programme under the second five-year plan (1956-61). It has accordingly been making grants for the strengthening of their libraries and laboratories and giving them subsidies for raising the salaries of their teachers. Since most of the education up to the degree stage is provided by affiliated or constituent colleges, the commission is considering to what extent and in what manner it can assist them from its funds for effecting improvements in the salaries of their teachers, their libraries, laboratories and other equipment. It is also considering the provision required under the second five-year plan for the introduction of an integrated three-year degree course and courses in general education in the universities.

The following grants were paid by the commission to the universities :—

	1953-54	1955-56	1957-58
	Rs.	Rs.	Rs.
(i) Humanities	100,000	4,012,305	4,587,344
(ii) Science	1,958,500	7,852,949	2,397,196
(iii) Technology	2,283,290	3,756,055	4,532,366
(iv) Central Universities*	2,880,355	10,994,021	18,279,754
(v) § Centenary grants to Bombay, Calcutta and Madras Universities	—	—	4,861,000
Total	7,222,145	26,615,330	34,657,660

\* Aligarh, Banaras, Delhi, Visva-Bharati.

§ The University Grants Commission decided to grant sums of Rs. 1 crore each to these three universities to commemorate their centenaries which they celebrated in the early part of 1957.

**FINANCE.** In 1957-58|| the income (in crores) of universities was : recurring, Rs. 13.75 ; non-recurring, Rs. 5.04 ; and of colleges : recurring, Rs. 24.9 ; non-recurring, Rs. 5.54. The main

Figures supplied in 1960 by Ministry of Education, Government of India

sources (in crores) were state governments, Rs. 18.44; student fees, Rs. 16.12; central government, Rs. 8.42.

**PRE-UNIVERSITY EDUCATION.** The examination which a student has to pass before he can enter upon a course of university study is the secondary school (leaving) certificate examination held by the board of secondary education set up for the area in which the university is situated, or the matriculation or entrance examination held by the university itself. Very few universities in India to-day (e.g. Nagpur and Panjab) hold their own matriculation or entrance examinations. The majority of pupils completing their high-school course take one of the school certificate examinations. The duration of the high-school course is ten years in most of the states and eleven years in Bombay. This period includes the time spent in the four primary standards and the three standards of the middle school. Instruction in the secondary schools, except in a few English teaching schools, is given through the pupil's mother-tongue or the regional language of the area. Not every holder of a secondary school certificate is eligible for admission to a university. The universities prescribe the subjects and minimum percentage of marks necessary for the purpose. In addition to the secondary schools, which provide education only in literary subjects, there are technical, agricultural and commercial high schools from which pupils can take the school certificate. Subject to certain restrictions, certificate holders from such vocational schools are also eligible to join a university. Pupils who join schools which prepare them for the Cambridge school certificate or higher school certificate examination are also admitted to the arts or science courses, provided that they pass in certain subjects or obtain a certain number of credits. In many universities, especially in north India, a Cambridge school certificate holder is admitted straight to the second year of the four-year arts or science degree course. For admission to Delhi University, which has a three-year degree course, a candidate has to complete the course for the higher secondary examination and pass it. The entrance qualification for the Allahabad, Agra and Lucknow universities is the passing of the intermediate examination of an Indian university, of the board of high school and intermediate examination (Uttar Pradesh), or an equivalent examination. When the three-year degree course is introduced in the universities, pupils who have completed the school-leaving certificate course will have to spend one more year in a pre-university course of study, either in a higher secondary school or in a college, before they are permitted to enter upon the degree course.

**ADMISSION.** In theory, all qualified applicants have the right of admission to university courses of study, but, in practice, owing to the limited number of places, it often becomes necessary for

the authorities of the institutions to make a selection from among the applicants. This happens especially in the medical, engineering, commerce and teachers' training colleges. The relevant authority lays down its own criteria for making the selection. Performance at the qualifying examination, distinction in sports and extra-curricular activities and membership of the national cadet corps are the chief determining factors.

Mention has been made above of the requirements for admission to the first-degree courses in arts and science. As regards professional courses leading to the first degree, the minimum requirements vary to some extent from university to university, except for the medical and engineering courses, where there is a greater degree of uniformity. Thus, the universities with four-year degree courses insist on the passing of the intermediate science examination with physics, chemistry and biology for admission to the MB BS course and the intermediate science examination with mathematics for admission to the BE or BSc(Eng) course. Those universities which have a three-year degree course require the passing of the pre-professional examination with biology and mathematics respectively. Owing to the comparatively small number of places available and the large number of applicants, candidates who have not obtained good marks at the qualifying examination have little or no chance of securing admission to these courses. Some universities have laid down further conditions, such as the securing of 45 or 50 per cent. of the marks, or passing in the first division, as the minimum requirements for admission to the medical or the engineering course. Except in Andhra, Bombay, Gujarat and Karnatak universities, only graduates are admitted to the I.L.B or B.L degree course. In the four above-mentioned universities, a student passing the intermediate examination in arts, science or commerce, or part I of the BA examination, is admitted to the law course, though he has to study for three years, whereas for graduates the course is one of two years. The qualification for admission to the degree course in commerce is the intermediate arts, science or commerce, or the pre-university, examination, except in some universities where admission to the course, which is one of four years, is made after the secondary school certificate examination, e.g. in Baroda, Bombay, Gujarat, Karnatak and Poona universities, and in Delhi, where the minimum requirement is the passing of the higher secondary examination and the course is one of three years. The minimum qualification for admission to the BSc Agriculture course is intermediate science, pre-professional, or intermediate science (agriculture), except in the Gujarat, Karnatak, Marathwada and Poona universities, where the course is one of four years after the secondary school certificate examination.

The requirement for admission to postgraduate study and research is the possession of a first degree in the same faculty. The higher degrees

are, as a rule, open to graduates of other universities on a reciprocal basis. The master's degree by papers can be taken after two years of study. In Annamalai, Andhra and Madras universities, a candidate who had passed the BA (hons.) or BSc (hons.) examination was until recently entitled to take the master's degree by mere efflux of time. In some universities the master's degree can also be taken by research. The PhD degree can be taken only by research, not less than two years after the master's, or three years after the bachelor's, degree. For research degrees the candidate has to work under the guidance of a recognized university teacher. He has also to submit a thesis and undergo a *viva voce* test, unless he is exempted therefrom on the recommendation of his referees. In certain universities only students who have done well in the first degree examination are permitted to undertake post-graduate study or research.

**STRUCTURE OF DEGREE AND DIPLOMA COURSES.** Most of the universities have decided to adopt the integrated three-year course for the BA and BSc degrees, involving the abolition of the intermediate examination, as recommended by the Secondary Education Commission (1952-53). The details of the course have yet to be settled by the universities, and there are bound to be certain variations in them. The main idea underlying this course is to alter the former pattern of university education by transferring one year of the old four-year degree course to higher secondary schools, making it a pre-university course. Until the secondary high schools are upgraded into higher secondary schools, this pre-university course will be taught in the affiliated colleges. Simultaneously with the introduction of the new three-year courses, integrated courses in general education, on the lines recommended by the Radhakrishnan commission in chapter V of their report, are likely to be adopted by most universities. The University Grants Commission is giving financial aid to the universities to implement their schemes in this regard.

All the teaching and affiliating universities in India, except Bombay, have agreed in principle to accept the scheme of the three-year degree course. The implementation of the scheme in the state universities is being financed on an equal sharing basis between the state governments and the universities and managements of colleges on the one hand, and the government of India and the University Grants Commission on the other. The three-year degree course has already been introduced in the following twenty-six universities: Aligarh, Andhra, Annamalai, Banaras, Baroda, Calcutta, Delhi, Jabalpur, Jadavpur, Karnatak, Kerala, Madras, Marathwada, Mysore, Nagpur, Osmania, Panjab, Poona, Rajasthan, Sardar Vallabhbhai Vidyapeeth, Saugar, S.N.D.T. Women's, Sri Venkateswara, Utkal, Vikram and Visva-Bharati.

The three-year degree course is preceded by the pre-university course examination which is at

present being conducted by the universities. The course includes compulsory and optional subjects. The universities hold an examination at the end of the second year in the compulsory subjects and in some papers of the optional subjects. In some universities there is an examination at the end of the first year also. Failure in these examinations does not prevent a student from proceeding to the final or third year of the degree course in which he is examined in the optional subjects only.

Students wishing to join a professional course in medicine or engineering are required to undergo what is called a pre-professional course in science subjects, with a professional bias, which is at present being taught in the degree colleges in arts and science, although it is the intention that these courses should eventually be catered for by the professional colleges themselves. The pre-professional examinations correspond to the old intermediate science examinations.

Under the pattern of the old four-year degree course some universities had a special honours examination with advanced courses of the duration of two or three years after the intermediate examination. Andhra, Annamalai and Madras had a three-years' honours course, and conferred the MA degree, without further examination, on candidates taking the honours degree, after the lapse of a certain period. They have discontinued these courses since the introduction of the three-year degree course. Among the universities which have already switched over to the three-year degree courses only one (Poona) has an honours course of the same duration as the pass or general course, but with a larger number of papers and with specialization, on the lines of the honours courses of Delhi University. The other universities have not instituted honours courses so far. Bombay University, which still follows the old pattern of the four-year degree course, has two types of courses, known as 'general' and 'special', each of two years' duration, the difference depending upon the groups and selection of subjects. A candidate can secure honours in either course, depending upon the level of his performance at the examination. In practice, however, a very small number of candidates select the 'general' course.

The duration of courses leading to the BSc(Eng) or BE (civil, electrical and mechanical) degrees varies from three to five years after the intermediate science, or pre-professional, examination. In some universities the course includes practical training, varying from six months to a year; in others, there is no provision for practical training. The course for the MB BS degree varies from five to six years after the intermediate science, or pre-professional, examination. It includes internship from six months to a year in all universities except Agra and Mysore. The course for the LLB or BL degree varies from two to three years. The course for the bachelor's degree in commerce varies from one year after the pre-university examination, or two years after the intermediate arts, science or commerce exam-

ination, to four years after matriculation. Two universities (Andhra and Madras) have honours courses, and in one university (Bombay) candidates passing in the second class are deemed to have passed with honours. The BSc(Agr) course varies from three years after the intermediate science or the higher secondary examination to five years after matriculation. The degree courses in dentistry and veterinary science are each of four years' duration after the intermediate science examination, and the BEd or BT course covers one year after graduation in all universities. The courses in technological subjects (other than engineering) are usually of four years' duration after the intermediate science examination or two or three years after the BSc degree. It may be broadly stated that those universities which have adopted three-year degree courses in arts and science have substituted the pre-professional or some other examination corresponding to the intermediate, as the springboard for admission to the professional courses.

Study for a postgraduate qualification normally involves attendance at advanced courses of lectures, clinics or practicals, as the case may be. Where the degree is by research, the candidate has to work under the supervision of a recognized teacher except for the DLitt and DSc degrees, which are awarded on the basis of independent research.

Most universities conduct diploma courses in a variety of subjects, cultural, technical and professional, such as foreign languages, journalism, public administration, foreign affairs, music, soap-making, pottery, teaching, librarianship and medical subjects. Some are postgraduate diplomas, others undergraduate. The duration of the courses varies from one to three years.

Some universities confer 'oriental titles' (corresponding to degrees or diplomas) on candidates who pass their examinations in courses in languages such as Sanskrit, Arabic or Urdu, or in Ayurveda or Unani (indigenous systems of medicine), or in theology or music. These courses are taught at the university level, and must not be confused with courses provided by institutions other than universities which confer their own titles on those who pass their examinations. These institutions are colleges maintained or sponsored by state governments or by learned bodies with a view to encouraging traditional courses and methods of instruction in Sanskrit or other oriental languages. For a list of oriental titles conferred by universities, see p. 387.

**STAFF.** The teaching staff in university departments consists of professors, readers, lecturers and demonstrators. The affiliated colleges have professors, assistant professors, lecturers and demonstrators, but no readers. The scales of pay in the universities are more or less uniform, whereas in the colleges they vary considerably. Some universities have prescribed minimum scales of pay for their college teachers.

As a result of the subsidies given by the University Grants Commission, the revised scales of

salaries of universities which receive such subsidies are uniform. The professors are paid Rs. 800-50-1250 per month, the readers Rs. 500-25-800 and the lecturers Rs. 250-500, with annual increments of not less than Rs. 20. The commission pays to the universities 80 per cent. of the increased expenditure due to revision, while the remaining 20 per cent. is borne by the state government or the university concerned. The four central universities pay according to the same scales as those mentioned above, with slight variations in the lecturers' scales to meet local requirements. Bombay University pays its lecturers Rs. 300-25-600. Panjab University also has slightly higher scales for its teachers. Many of the affiliated colleges have recently upgraded the salaries of their teachers on a sharing basis, the commission subsidizing the increased expenditure to the extent of 50 per cent. and the state government or the college contributing the balance.

The usual method of instruction consists of the lecture, the tutorial and the seminar. Lectures predominate. Tutorials and seminars are held, once a week or fortnight, in different subjects. A college teacher is usually not burdened with more than fifteen lectures in a week, if he does not take postgraduate classes. Teachers of undergraduate classes generally get very little time to do their own research.

The practice of sabbatical leave as such is non-existent in the colleges. Teachers in the university departments are permitted to go on study leave up to a maximum of three or four years during the entire length of their service. The age of superannuation in most universities is sixty years, which may be extended by two to five years in special cases. In a very few universities it is fifty-five. No distinction is made in the case of those coming from abroad, unless the appointment is on contract for a fixed period.

The usual method of filling vacant teaching posts is by advertisement in the Indian newspapers, and sometimes also in foreign newspapers. Appointments are ordinarily made by the executive council on the recommendation of statutory selection committees, which include experts unconnected with the university.

There is no statutory bar to the appointment of nationals of other countries to university or college teaching posts, although the number of such persons is rapidly decreasing on account of the availability of Indians with high academic qualifications obtained in foreign universities. The majority of teachers are persons who have taken their first degrees in India. Only a small minority have received their first degree training abroad. The older universities have on their staffs a fair proportion of teachers who have graduated from other universities, although the majority are from the home university.

**STUDENTS.** Most universities enrol only full-time students but some have students taking diploma or evening courses. In Agra University about 25 per cent. of the students are part-time,

in Gauhati about 17 per cent. and in Baroda about 12 per cent. About 13 per cent. of the students in Poona University are external students, *i.e.* persons gainfully employed in the university area, who are allowed to appear for its examinations without keeping terms, after registering their names in the university office. Calcutta, Delhi, Madras and Utkal universities have small numbers of part-time students. Some of the universities, *e.g.* Agra, Nagpur, Osmania, Rajasthan and Utkal, permit certain categories of persons, such as school teachers, educational inspectors, women, librarians, library clerks and laboratory assistants, to appear as private candidates at their examinations. Very few universities conduct vacation courses or summer schools. Poona University, for example, conducts such a course for the MEd examination for secondary school teachers. The majority of students live in their own homes. About 10 to 20 per cent. live in halls of residence or hostels maintained by the universities or affiliated colleges. It is usual for a university, when affiliating a college, to lay down a condition that it shall make provision for the accommodation of a certain proportion of its students in its own hostel.

Most universities and colleges have their own students' unions or representative councils. Every college has its own athletic club and a number of societies conducting cultural activities such as literary, dramatic, debating, historical and philosophical societies or clubs.

Almost every university has its contingent of the national cadet corps. Girls' divisions have recently been started in many universities. Student welfare activities are on the increase. The government of India organizes an annual inter-university youth festival. Students take part in training camps, village apprenticeship and development schemes, and labour corps, for which the universities receive financial assistance from government. Universities and colleges have their own medical officers to look after the health of their resident students. In some universities there are arrangements for the medical examination of entrants. Some universities have made physical training compulsory in the first two years of the degree course. A few universities have foreign universities' information bureaux, and Calcutta University has also an appointments board. As the number of students from overseas is increasing, the universities are considering a proposal to appoint advisers for them. A few universities have student counsellors.

The tuition fee varies from Rs. 120 to Rs. 250 per annum for arts and science courses, and from Rs. 250 to Rs. 400 for professional and technological courses. The cost of residence in hostels, including boarding, varies from Rs. 80 to Rs. 100 per month. For overseas students, it may go up to Rs. 150 per month, but much depends on whether the university is situated in a small town or a large city.

The major sources of financial assistance by

way of research studentships, fellowships and scholarships are (a) the government of India and/or the state government (b) university or college funds and (c) endowments. The government of India awards a certain number of scholarships to students coming from abroad. They also award scholarships to backward class students. The universities and colleges, too, award free studentships to deserving but poor students. As a rule, however, scholarships and other financial awards are made on the basis of merit. Figures are not available to show to what extent students receive financial assistance, though, on a rough estimate, it may be said that about 10 per cent. receive financial aid. Vacation employment of students is practically unknown.

The average age of Indian students joining universities is 17 plus. Foreign students are usually much older, *i.e.* between 18 and 24, as many of them come only for professional or postgraduate studies. The majority of foreign students come from East Africa. The rest come from Ceylon, Burma, Nepal, Tibet, Malaya, Indonesia, the Philippines, Fiji Islands, Mauritius, Afghanistan, Iran and other countries. A very small number come from the United States, mainly for postgraduate study.

The total number of students has been increasing from year to year. It increased from 420,000 in 1951 to 827,000 in 1958. *See also* 'Statistics', p. 388.

**ACADEMIC YEAR.** The academic year is divided into three terms in most universities. Some have only two terms. The academic year usually begins in June or July and ends in March or April. In the Jammu branch of the Jammu and Kashmir University and in Roorkee University it begins in September, and in the Panjab University in October. The long (summer) vacation, except in these three universities, falls between March and July. The difference in the terms and vacations is mainly due to climatic conditions. Most universities have a short break of a fortnight to a month in October, and another short break of ten days to a fortnight in December. No vacation courses are held in summer to enable students to earn credit for attendance.

**ADULT EDUCATION.** The idea of extra-mural classes and university extension is comparatively new. Some universities have, however, recently been moving in that direction; for example, Poona University has established a board of extra-mural studies which is responsible for adult education in the university area. It has 71 extra-mural centres where more than 600 lectures were delivered in 1957. It also conducts summer and autumn schools, mainly for school teachers, at a few extra-mural centres. Bombay University has recently started adult education classes in Hindi and Marathi in labour areas for labourers in mills and factories and in English for office employees desirous of acquiring a knowledge of cultural subjects. Some other universities also conduct adult education classes through their own

lecturers and college teachers. The University Grants Commission has offered financial assistance for university extension courses to universities prepared to undertake them.

**INTER-UNIVERSITY ORGANIZATIONS.** In pursuance of a resolution passed by the first conference of Indian universities held at Simla in 1924, the Inter-University Board of India was established in 1925 to co-ordinate the work of the Indian universities, by providing for the discussion of common university problems, acting as a bureau of information, facilitating the exchange of professors, assisting the universities in obtaining recognition for their degrees by other universities, and in other ways. Member universities are represented on the board by their vice-chancellors and, in their absence, by members of the syndicate or executive council. The universities of Rangoon and Ceylon are also members of the board. The board meets annually to consider proposals from individual universities and the government of India, and also convenes quinquennial conferences to discuss important university problems. Through a subsidiary sports board it conducts inter-university tournaments in the major games and in athletics. In addition to the proceedings of its annual meetings and conferences, its *Bulletin*, *Lists* of subjects in which research is in progress in the universities and research institutes and the *Bibliography of Doctorate Theses* accepted by the universities, it publishes a *Handbook* giving detailed information about the Indian universities and research institutes. It is in relationship with the Association of Universities of the British Commonwealth. The board has a standing committee, elected biennially, which acts as its executive body. The presidentship rotates annually among the vice-chancellors. The office of the board is located at 13 Lucknow Road, Civil Lines, Delhi, India. The chairman of the standing committee of the board is N. K. Sidhanta, MA Camb., Hon. LL.D. *Tor.*, Vice-Chancellor of the University of Delhi. The secretary of the board is Professor V. K. Ayappan Pillai, MA *Madr.*, BA *Oxon.*

There is no national association of university teachers in India, although there are local associations in some universities, e.g. Bombay and Poona, whose activities are mainly social.

There is a body called the National Union of Students, to which a few students' unions are affiliated, but it cannot be said to be a very representative body.

**THE UNIVERSITIES TO-DAY.** The universities are faced to-day by a number of problems, largely the result of the situation in which India finds herself since independence, and the rethinking which has become necessary for them to fulfil the requirements of the country in which they must play their rôle as integral parts of her national life. The main problems are inadequacy of staff and equipment, the pressure of an ever-increasing number of students and the replacement of English

by a suitable Indian language as the medium of instruction. In a way, the universities are in a better position now than they ever were before, inasmuch as the University Grants Commission is always willing to help them. With its assistance they have been able to improve the pay scales of their teachers, build or extend their scientific and technological laboratories, strengthen their libraries and provide more accommodation for their students and staff, and, in particular, to extend their research facilities. They are anxious to bring about closer contacts between teacher and student by laying greater emphasis on tutorials and seminars than on lectures, and to improve the examination system by making the examinations more objective and giving credit to the students for their class work. They realize the importance of character-building and physical welfare for their students and the creation in them of a spirit of self-sacrifice and a desire to render social service by encouraging them to take part in labour camps and village development schemes and impressing upon them the dignity of manual labour; in a word, to make them keenly alive to the need of making their individual contribution to the building up of a more contented, prosperous and happy India. Student welfare and activities, therefore, loom large in their programmes. Their students are keen on building roads and schools for the poor villagers and swimming pools and open-air theatres for themselves by voluntary labour during their vacations. The universities themselves are extending their teaching activities and giving greater scope to their teachers and students for the development of research. Among the new specialized courses recently introduced are business management, industrial engineering and industrial administration. Nuclear research is also receiving special attention. Building programmes are going forward all over the country. New scientific laboratories and more and better hostels are being built. The constitutions of the universities are being amended with a view to strengthening the academic element. The prospect for university education for the next few years is promising, although the heavy demands made on the country's finances by the urgent need for agricultural reform and industrial expansion have made it difficult for the government to provide adequate funds for the expansion of university education. The problem of the medium of instruction has yet to be satisfactorily solved amidst the conflicting claims of Hindi and the other regional languages.

**INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES.** Although the universities cover the major part of the instruction in the field of higher education, it cannot be said that 'higher education' is synonymous with 'university education'. There are a number of institutions of higher education and research which work in collaboration with, or independently of, the universities. Thus, the Bhandarkar Oriental Research Institute, Poona, is a constituent

recognized institution of Poona University. The Tata Institute of Fundamental Research at Bombay, which provides instruction of a high order in specialized branches of physics, mathematics and other allied sciences, is recognized for the guidance of candidates for the masters' and doctors' degrees of Bombay University. The University of Bombay recognizes for its post-graduate degrees the research work carried on in the Indian Cancer Research Centre, Bombay, and in the Atomic Energy Establishment, at Trombay, under the guidance of the members of the research staffs of these institutions in subjects for which they have special facilities. The Central Building Research Institute, Roorkee, which is one of the national laboratories, works in close liaison with the University of Roorkee. The Leather Research Institute, Madras, and the Harcourt Butler Technological Institute, Kanpur, stand in a similar relation to the universities of Madras and Agra respectively. The national laboratories, set up by the government of India, and some of the central research institutes, are recognized by many of the Indian universities as institutions which can send students working in them for the postgraduate research degrees of the universities concerned. The All-India Institute of Medical Sciences, New Delhi, established under an act of parliament (Act 25, of 1956), and the Indian Institute of Technology, Bombay, give their own degrees in medicine and engineering, respectively. The Forest Research Institute, Dehra Dun, is a centre for the whole country for technical instruction in forestry, and confers the diploma of forestry research in India at the end of a year's course. The Central Food Research Institute, Mysore, conducts fundamental and applied research in different branches of food and a post-graduate course of two years in fruit technology, leading to an associateship of the institute. The Indian Statistical Institute, Calcutta, provides teaching courses leading to its associateship and fellowship. The Serampore College, West Bengal, functions as a university in the faculty of theology, while submitting its students in arts and science to the examinations of the University of Calcutta. The Indian Institute of Science, Bangalore, which provides instruction and facilities for research in general chemistry, organic

chemistry, bio-chemistry, physics, applied mathematics, metallurgy and various branches of engineering, has recently been accorded the status of a university. The Indian Institute of Technology, Kharagpur, in West Bengal, is another non-affiliated institution conducting courses in civil, electrical, mechanical and agricultural engineering, architecture and naval architecture, and awarding its own degree of bachelor of technology. The Jamia Millia Islamia, Jamianagar, Delhi, provides courses in the arts and social sciences leading to an examination which is recognized by government as equivalent to the BA degree of an Indian university.

For detailed information about institutions of higher education and research other than statutory universities the reader is referred to the current edition of the *Directory of Institutions for Higher Education* published by the Ministry of Education, Government of India, New Delhi.

FURTHER INFORMATION (see also Appendix V and the 'Publications' section in each university entry below). In addition to the *Handbook of the [Indian] Universities, 1958*, and other publications of the Inter-University Board of India mentioned above, the following may be consulted :

*University Education Commission. Volume I : Report and Appendices ; Volume II : Evidence.* (Manager of Publications, Delhi, 1949 and 1951).

*Directory of Institutions for Higher Education.* (Ministry of Education, Government of India, New Delhi); annual.

*Report of the University Grants Commission, 1958-59.* (U.G.C., New Delhi, 1960).

*Education in Universities in India.* (Ministry of Education, Government of India, New Delhi, 1959).

*Commonwealth Universities Yearbook.* (A.U.B.C., London); annual.

Information on specific university topics can be obtained in reply to written enquiries from :

The Secretary, Inter-University Board of India, 13 Lucknow Road, Civil Lines, Delhi.

The Ministry of Education, Government of India, New Delhi.

The Secretary, University Grants Commission, Old Mill Road, New Delhi 2.

## DIRECTORY TO SUBJECTS OF STUDY

The following subjects in arts and science may be studied at most Indian universities : botany, chemistry, economics, English, French, geography, geology, German, Hindi, history of India and Europe (ancient, mediæval and modern), mathematics, modern Indian languages spoken in the area, Pali, Persian, philosophy, physics, political science, psychology, Sanskrit, sociology, statistics and zoology.

A list is given below of certain other subjects

which may be studied at universities. Unless otherwise stated, the courses mentioned are for a first degree. Most universities which make provision for degree courses also provide facilities for master's and/or doctor's degrees in the same subject.

*Agriculture.* Courses leading to the BSc(Agr) or BAg degree are provided by Agra, Allahabad, Andhra, Banaras, Bihar, Calcutta, Delhi, Gauhati,

Gorakhpur, Gujarat, Jabalpur, Karnatak, Kerala, Madras, Marathwada, Mysore, Nagpur, Osmania, Panjab, Poona, Rajasthan, Sardar Vallabhbhai Vidyapeeth, Saugar, Utkal and Vikram. A BSc (Dairying) is awarded by Panjab.

**Commerce.** Except for Jadavpur, Roorkee, S.N.D.T. Women's and Visva-Bharati, all universities have a bachelor of commerce degree.

**Dentistry.** The BDS is awarded by Bombay, Calcutta, Lucknow, Madras and Panjab.

**Education.** All universities except Allahabad, Bihar, Jadavpur and Roorkee have courses leading to the BEd or BT degree, which are open to graduates in arts, science or commerce. Bombay and Patna also provide diploma courses in education.

**Engineering.** The BE, or BSc(Eng), in civil, electrical and mechanical engineering, is awarded by all universities except Allahabad, Gorakhpur, Jammu and Kashmir, Lucknow, S.N.D.T. Women's and Visva-Bharati. *See also* Technology.

**Fine Arts.** Degrees in the fine arts are offered by Baroda and S.N.D.T. Women's, and diplomas by Allahabad, Annamalai, Banaras, Baroda and Visva-Bharati.

**Forestry.** Courses at Delhi.

**Home Science.** Degree or diploma courses at Allahabad, Baroda, Calcutta, Delhi, Jabalpur, Madras and S.N.D.T. Women's.

**Indigenous Medicine.** Degrees in Ayurveda are offered by Banaras, Kerala, Lucknow and Poona, and in Unani medicine and surgery by Aligarh. Madras awards a BIM (Indian medicine).

**Journalism.** Diploma courses in journalism are offered by Calcutta, Madras, Nagpur, Osmania, Panjab.

**Law.** With the exception of Annamalai, Baroda, Jadavpur, Jammu and Kashmir, Roorkee, S.N.D.T. Women's, Sri Venkateswara and Visva-Bharati, all universities have courses leading to the LLB or BL.

**Library Science.** Delhi has a degree and a diploma course. Aligarh, Andhra, Banaras, Baroda, Bombay, Calcutta, Madras, Nagpur and Poona have diploma or certificate courses only.

**Medicine.** The MB BS degree is awarded by Agra, Andhra, Baroda, Bihar, Bombay, Calcutta, Delhi, Gauhati, Gujarat, Jabalpur, Karnatak, Kerala, Lucknow, Madras, Mysore, Nagpur, Osmania, Panjab, Patna, Poona, Rajasthan, Sri Venkateswara, Utkal and Vikram.

**Museology.** Diploma courses at Baroda and Calcutta.

**Music.** Degrees in music are awarded by Annamalai, Banaras, Baroda, Calcutta, Madras and Visva-Bharati, and diplomas or certificates by Agra, Allahabad, Andhra, Annamalai, Banaras, Baroda, Gorakhpur, Madras, Patna, Poona and (music and dance) Visva-Bharati.

**Nursing.** Calcutta, Delhi, Madras and S.N.D.T. Women's offer a BSc in nursing.

**Oriental Learning.** Courses in oriental learning leading to bachelor's or master's degrees or diplomas, or (*see below*) oriental titles are provided by Andhra, Annamalai, Banaras, Baroda, Bihar, Jammu and Kashmir, Kerala, Madras, Osmania, Nagpur, Panjab, Patna and Rajasthan. Sanskrit, Pali and the modern Indian languages are taught in almost all universities.

**Pharmacy.** Degrees (BPharm or BScPharm) are offered by Agra, Andhra, Banaras, Bombay, Gujarat, Madras, Nagpur, Panjab, Rajasthan and Saugar.

**Physical Education.** Diplomas are awarded by Lucknow, Madras and Panjab.

**Public Administration.** Nagpur has a post-graduate course for the MA. Lucknow, Madras, Osmania and Patna have diploma courses. A diploma in local self-government (administration) is awarded by Allahabad and Nagpur.

**Religion and Culture.** Courses at Osmania.

**Russian.** Diploma or certificate courses at Aligarh, Allahabad, Delhi, Lucknow, Osmania.

**Social Work.** Degrees or diplomas are awarded by Allahabad, Annamalai, Baroda, Calcutta, Delhi, Gorakhpur, Lucknow, Madras, Patna and Vikram.

**Technology** (other than civil, electrical and mechanical engineering). *Agricultural engineering* is taught only at Allahabad, *highways* at Madras and Roorkee, *mining* only at Banaras, *applied chemistry* only at Calcutta, *ceramics & glass technology* only at Banaras, *food technology* at Bombay and Kerala, *intermediates & dyes, pigments, paints & varnishes and plastics* only at Bombay, *leather technology* at Madras, *oil technology* at Nagpur and *tanning* at Calcutta. Courses in *architecture* leading to the BArch are available at Baroda, Bombay, Calcutta, Delhi, Madras and Roorkee. Nagpur awards a diploma in *architecture*. Courses in *chemical engineering* leading to the BE or BSc(ChemEngin) are offered by Andhra, Annamalai, Banaras, Bombay, Delhi, Jadavpur, Madras, Nagpur, Panjab and Osmania. Banaras, Calcutta and Poona provide courses in *metallurgy* leading to the BSc or BE. Degree courses in *textile technology* and/or *textile chemistry* are offered by Baroda, Bombay, Delhi, Madras, Mysore and Panjab. Jadavpur, Madras, Poona, Rajasthan and Saugar have courses in *tele-communication engineering* leading to the BSc(Tech), BE or BTelE. *See also* Engineering.

**Veterinary Science.** Agra, Andhra, Bihar, Bombay, Calcutta, Gauhati, Jabalpur, Kerala, Madras, Osmania, Panjab, Rajasthan, Saugar, Sri Venkateswara, Utkal and Vikram offer courses leading to the BVSc or BSc(Vet).

### Oriental Titles

*Acharya* Ban., Bda., Luck.; *Adib-i-Fazil* Madr.; *Afzal-ul-Attibba* Madr.; *Afzal-ul-ulama* Kerala; *Afzal-ul-Ulama* Madr.; *Alim*



ENGIN.—Principal B. Das, BSc(Eng); MATHS.—P. C. Gaur, MSc LLB; MECH. ENGIN.—S. R. Singh, BSc(Eng).

AGRA, *Medical College* (tel.: 145). MB BS; MD; MS; DCH; DMRE. Hds. of Depts.: PATHOL.—Principal P. N. Wahi, MD, MRCP, FRCS; ANAT.—P. L. Shukla, MS; PHYSIOL.—I. Singh, MB BS PhD; BIOCHEM.—M. G. Chakravarti, DIC, MSc PhD, FRIC; MED.—K. S. Mathur, MD, MRCP; SURG.—S. P. Srivastava, MS, FRCS; OBSTET. AND GYNÆCOL.—N. Kishore, MS, FACS; OPHTHALMOL.—K. N. Mathur, MS DOMS; PHARMACOL.—N. K. Chaudhari, MD PhD DTM&H.

AGRA, *Radha Swami Educational Institute*, Dayalbagh (tel.: 730). BSc; BCom; BT. Hds. of Depts.: TEACHING—Principal B. P. Johri, MSc LT; ECON.—S. P. Madhosh, MA; COMM.—S. P. Sahai Verma, MCom LLB; PHYS.—A. Bhargava, MSc; MATHS.—P. M. Gupta, MA; CHEM.—G. C. Das Verma, MSc.

AGRA, *St. John's College* (tel.: 155). MA; MSc; MCom. Under general control of the Church Missionary Soc. Admits non-Christians. Hds. of Depts.: STATS.—Principal P. T. Chandi, MA MSc Lond.; ENGL.—S. P. Sharma, MA *Alld.*; PHILOS. AND PSYCHOL.—M. A. Hakim, MA *Luck.*, MEd *George Peabody Coll.*; HIST.—Miss Mildred E. Gibbs, Hons. in Mod. Hist. *Oxon.*, MA *Manc.*; POL. SCI.—E. A. Daniel, MA; ECON.—C. T. Gideon, MA LT *Alld.*; GEOG.—A. R. Tewari, MA *Alig.*, MA PhD; PERSIAN AND URDU—M. U. Faridi, MA *Alig.*; HINDI—H. H. N. Tandon, MA *Ban.*, PhD; MATHS.—J. C. Chaturvedi, MA MSc PhD; CHEM.—P. I. Ittyerah, BA *Madr.*, PhD *Camb.* & *Agra*, MSc; PHYS.—K. P. Mathur, MSc; ZOOL.—T. Singh, DIC, MSc PhD *Lond.*; MEd; BOT.—B. L. Gupta, MSc *Alld.*; COMM.—R. S. Dwivedi, BCom *Alld.*, MA.

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Mrs. K. N. Hasan, MA; SANSK.—R. Shastri, MA; PSYCHOL.—J. G. Tiwari, MA; MILIT. SCI.—A. R. Martoca, BA; SOCIOI.—G. K. Narain, MA.

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HAPUR, *Shri Saraswati Vidyalyaya Degree College* (tel.: 108). BA; MA; BCom; BSc. Hds. of Depts.: ENGL.—Principal V. D. Dikshit, MA; PHILOS.—.....; HINDI—P. S. Gupta, MA *Luck.*; ECON.—.....; POL.—N. Vidhyarthi, MA *Luck.*; MILIT. SCI.—B. N. Maliwal, BA *Alld.*; GEOG.—S. D. Kaushik, MA PhD; COMM.—V. P. Agarwala, MCom; CHEM.—G. L. Maheswari, MSc PhD; MATHS.—.....; PHYS.—G. C. Singhal, MSc; HIST.—.....

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KANPUR, *Dayanand College of Law*. LLB. Principal—N. Chandra, MA LLB.

KANPUR, *Dayanand Girls' College*. BA; MA. Principal—Smt. I. Verma, MA. Hds. of Depts.: ENGL.—N. K. Saxena, MA; HINDI—R. K. Baijal, MA; PSYCHOL.—Smt. Suman, MA; SOCIOL.—A. Dutta, MA.

KANPUR, *Dayanand Women's Training College*. B.T. Principal—K. Koul, MA LT.

KANPUR, *D.B.S. Degree College*. BA. Principal—M. M. Pandey, MA LLB. Hds. of Depts.: ENGL.—M. P. Amrit, MA; ECON.—J. N. Nigam, MA PhD; HINDI—D. S. Awasthi, MA; HIST.—S. Murti, MA.

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KANPUR, *Govt. Central Textile Institute*. B(Text). Principal—E. D. Daruwala, BSc PhD. Hds. of Depts.: TEXTILE TECHNOL.—B. K. Kimothi.

KANPUR, *Halim Muslim College*. BA; BCom. Principal—M. A. Rizvi, MA LT. Hds. of Depts.: ENGL.—K. Ahmad, MA; HINDI—B. K. Gupta, MA; HIST.—I. Khan, MA LLB; COMM.—F. H. Khan, MA MCom LLB; ECON.—C. D. Kaushik, MA BCom; POL. SCI.—D. K. Misra, MA.

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Verma, Mrs. Zohra, MA MED	Lectr.
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Ahmad, Mrs. Audry J., PhD	(French & German) Lectr. (Russian) Lectr.

### Geography

Rizvi, S. M. T., BA PhD <i>Lond.</i> , MA LLB	*Prof.
Shafi, M., MA PhD <i>Lond.</i>	Reader
Zaidi, R. H., PhD <i>Edin.</i> , MSc	Reader
Ahmad, M., MSc	Lectr.
Rafiqullah, S. M., MA	Lectr.
Anas, M., MA	Lectr.
Raza, S. M., MA	Lectr.
Aziz, A., MSc	Lectr.
Alvi, Z., MA LLB	Lectr.
Siddiqi, N. A., MA	Lectr.
Raza, M., MA LLB	Lectr.
Qidwai, Mrs. Saeeda W., MA	§Lectr.
Naqvi, Miss Rashida, MA LT	§Lectr.

### Geology

Gauju, P. N., MSc <i>Ban.</i> , PhD <i>Luck.</i> & <i>Durh.</i>	*Reader
Rasul, H., MSc <i>Calc.</i>	Lectr.
Ali, B., MSc <i>Calc.</i>	Lectr.
Ahmad, N., MSc <i>Patna</i>	Lectr.
Srivastava, V. K., MSc <i>Ban.</i> , MA <i>Baltimore</i>	Lectr.
Pant, I. D., MSc	Lectr.

### Hindi and Sanskrit

Sharma, H. L., MA PhD <i>Agra</i> , DLitt <i>Nag.</i>	*Prof.
Shukla, G. N., MA BT <i>Ban.</i> , PhD	Reader
Tripathi, R. S., MA PhD <i>Agra</i>	Reader
Sharma, S. S., MA <i>Agra</i> , PhD BT	Lectr.
Singh, V. P., MA <i>Agra</i>	Lectr.
Anand, P., MA <i>Agra</i>	Lectr.
Lal, G., MA LT	Lectr.
Mohammad, N., MA	Lectr.
Gupta, P. S., MA <i>Agra</i>	Lectr.
Shukla, V. N., MA	Lectr.
Sharma, A. P., MA PhD <i>Agra</i>	Lectr.
Hanumatchastri, A., MA	Lectr.
Sharma, Mrs. Bhagwati, MA	§Lectr.
Hajila, Miss Pushpa, MA	§Lectr.

### History

Hasan, S. N., MA <i>Alld.</i> , DPhil <i>Oxon.</i> , FRHistS	*Prof.
Nizami, K. A., MA LLB <i>Agra</i>	Reader
Chandra, S., MA DPhil <i>Alld.</i>	Reader
Hasan, M., BA <i>Lond.</i>	Reader
Kureishy, A. W., MA LLB	Lectr.
Habib, I. M., MA	Lectr.
Malik, Z., MA <i>Agra &amp; Alig.</i>	Lectr.
Siddiqi, Mrs. A., BA <i>Oxon.</i> , MA <i>Alld.</i>	Lectr.
Shakoor, Miss Abida, MA	§Lectr.
Masooda, Miss K. F., MA <i>Calc.</i>	§Lectr.

Lectr. Ahmad, R., MSc PhD *Calc.*, MSE  
Lectr. *Prin.*  
Lectr. Haq, E., MSc  
Temp. Lectr. Ali. S. A., MSc

[illegible]

\*Reader  
†Lectr.  
Lectr.  
Lectr.  
Lectr.

\*Prof.

## Reader

## Political Science

\*Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
§Lectr.  
Lectr.  
Lectr.  
§Lectr.

**Sanskrit, see Hindi and Sansk.**

**Statistics, see Maths, and Statistics**

**\*Prof.**

## Urdu

\*Prof.  
 Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 §Lectr.  
 §Lectr.  
 Lectr.  
 Lectr.  
 §Lectr.

**Lectr.**

Lectr.	Mirza, M. B., DrPhilNat <i>Fran.</i> , BSc <i>Bom.</i>
Lectr.	Khan, M. A. B., PhD <i>McG. &amp; Alig.</i> , DSc
Lectr.	Alam, S. M., MSc PhD <i>Lond.</i>
Demr.	Qasim, Z., MSc PhD <i>Lond.</i> , MSc <i>Alig.</i> ,
Demr.	PhD <i>Wales</i>
	Aziz, S. A., DIC, MSc PhD <i>Lond.</i>
	Farooqi, M. M., MSc
*Prof.	Khan, N. H., MSc PhD <i>Mass.</i>
Reader	Ahmed, M., MSc
Reader	Siddiqi, A. H., MSc PhD
Reader	Adhami, O. M., MSc

•Prof.  
Reader  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.



Farooqi, H. U., MSc	Lectr.	Rahman, M. S., MB BS <i>Bom.</i>	Lectr.
Siddiqi, M. R., MSc	Lectr.	Lal, S. B., MB BS	Lectr.
Hafeez, M., MSc	Lectr.	Hasan, H. N. A.	Lectr.
Wahid, MSc	Lectr.	Khan, M. Z.	Lectr.
Riaz, Miss Nuzhat, MSc	§Lectr.	Khan, H. Z. A.	Lectr.
Subramaniam, Miss Sharda, MSc	§Lectr.	Husain, H. K., BUTS	Lectr.
Banerjee, Miss Sabita, MSc	§Lectr.	Khan, H. S. R., BUMS	Lectr.

## MEDICINE

Latif, H. A., Shifa-ul-Mulk Luck.	*Prof.	Ansari, F., BU IS	Lectr.
		Kidwai, H. S. M.	Demr.
<b>Ophthalmology</b>		Haq, W.	Science Teacher
		Khan, N.	Science Teacher
Shukla, B. R., BSc MB BS Luck.	*Prof.	Jafri, A. H., BUMS	Demr.
Hameed, S., MB BS Luck. (Pathology)	Reader	Ahmad, K., BIHS	Demr.

## Ophthalmology

Shukla, B. R., BSc MB BS Luck.	*Prof.	Jafri, A. H., BUMS	Demr.
Hameed, S., MB BS Luck. (Pathology) Reader		Ahmad, K., BIHS	Demr.
Agarwala, K. C., MD (Bacteriol.) Reader			
Hameida, Miss Saidezzafar, MB MS Luck.,			
DOMS Lond. (Ophthalmol.) Reader			
Dayal, Y., MB BS Luck., DOMS Lectr.			
Grover, A. D., MB MS			
(Ophthalmol.) Sr. Res. Asst.			

### THEOLOGY

#### Shia Theology

Naqvi, M. A. N.	*Reader
Kamoonpuri, M. H., PhD Al Azhar	

## THEOLOGY

## Shia Theology

Naqvi, M. A. N. \*Reader  
Kamoonpuri, M. H., PhD *Al Azhar* (Nazim Theol.) Lectr.  
Abbas Sahib, M. S. A. Z. Teacher  
Jafri, Miss R., MTh \$Teacher

## Sunni Theology

Akbarabadi, M. S. A., MA                      \*Reader  
Bilgrami, Q. M. A.                      (Nazim Theol.) Lectr.  
Hafcezzullah Sahib, M. M.                      Lectr.  
Begum, Miss Raufa, MA                      \$Lectr.

## Unani Tib and Surgery

*Latif, H. A., Shifa-ul-Mulk Luck.	*Prof. Akbarabadi, M. S. A., MA	*Reader
Ansari, I. H., MB BS Bom., BSc	Reader Bilgrami, Q. M. A. (Nazim Theol.)	Lectr.
Hasib, A., DIMS Luck., MSc	Reader Hafeezullah Sahib, M. M.	Lectr.
Kabiruddin, M.	Reader Begum. Miss Raufa. MA	\$Lectr.

**COLLEGE OF ENGINEERING AND TECHNOLOGY**

## Applied Science

Siddiqi, O. A., MSc	Reader	Jalaluddin, BSc(Engg)	Lectr.
Osmani, R. A., MSc	Lectr.	Bansal, V. S., BSc	Lectr.
Naqvi, T. H., MSc PhD	Lectr.	Upreti, G. C., MSc	Lectr.
Ahmad, N., MSc	(Maths.) Lectr.	Bhasin, S. S., BSc(Engg)	
Singhal, J. P., MSc	(Sci.) Lectr.	Mahboob, G., BA	Lectr.
Caahyap, S. M., MSc	Lectr.	Rasheeduddin, DipElectrEngin	Demr.

## Civil Engineering

Chakko, K. C., PhD	*Prof.		
Ansari, M. Y., MASc <i>Tor.</i> , BSc(Engg)	Reader	Goyal, Y. P.	Demr.
Bari, S. J., BSc(Engg)	Reader		
Charyulu, K. K., MSc <i>Lond.</i>	Reader	<b>Mechanical Engineering</b>	
Sulaiman, K. M., BSc(Engg)	Lectr.	Sen, S. B.	*Prof.
Ahmad, S. N., BSc(Engg)	Lectr.	Habibullah, A. H. M., BA BSc <i>Madr.</i> , BSME <i>Utah</i>	Reader
Bahauddin, K. M., MScTech <i>Manc.</i> , BSc(Engg)	Lectr.	Husain, A., BSc BSc(Engg)	Reader
Imamuddin, K., BSc(Engg)	Lectr.	Munir, J. A., BSc(Engg)	Reader
Siddiqi, M. K., BSc(Engg)	Lectr.	Malkhani, L. B., BSc(Engg)	Reader
Ali, R., BE	Lectr.	Mustajabuddin, BSc(Engg)	Lectr.
Reddy, G. V. R., BE	Lectr.	Bhardwaj, B. K., BSc(Engg)	Lectr.
Zafar, R., BSc	Lectr.	Mohsin, S. M., BSc(Engg)	Lectr.
Reddy, S. V. B., BTech	Lectr.	Patnaik, K. A. R., BE	Lectr.
Alin, S. H., BSc		Hasan, Z., BSc(Engg)	Lectr.
Kazmi, J. A., DiplCivilEngin <i>Roor.</i>	Demr.	Yahya, S. M., BSc(Engg)	Lectr.
Siddiqui, S. H.	Demr.	Hasnain, S. M. A., BSc(Engg)	Lectr.

## Mechanical Engineering

Sen, S. B.	*Prof.
Habibullah, A. H. M., BA BSc <i>Madras</i> , BSME <i>Uttah</i>	Reader
Husain, A., BSc BSc(Engg)	Reader
Munir, J. A., BSc(Engg)	Reader
Malkhani, L. B., BSc(Engg)	Reader
Mustajabuddin, BSc(Engg)	Lectr.
Bhardwaj, B. K., BSc(Engg)	Lectr.
Mohsin, S. M., BSc(Engg)	Lectr.
Patnaik, K. A. R., BE	Lectr.
Hasan, Z., BSc(Engg)	Lectr.
Yahya, S. M., BSc(Engg)	Lectr.
Hasnain, S. M. A., BSc(Engg)	Lectr.
Rao, Y. V. N., BSc(Engg)	Lectr.
Singh, R.	Demr.
Decrose, J. W.	Demr.
Mukerjee, D. C., MEE <i>Roor.</i>	Demr.
Ali S. M.	Demr.

## Electrical Engineering

Saha, N. C., BSc Glas., MSc PhD Manc. \*Prof.  
Bhattacharjee, S. C., BSc Calc.,  
BSc(Engg) Ban. Reader

## UNIVERSITY POLYTECHNIC

**Applied Science**

Huda, N., MSc <i>Dacca</i>	Lectr.
Salam, A., MSc	Lectr.
Akhtar, M., MSc	Lectr.
Ali, M. S., MSc	Instr.
Husain, S. M. R.	Instr.
Ansari, K. H., MA	Instr.
Arora, Y. P., DiplCivlEngin	Drawing Teacher
Khan, A. W., MSc	Demr.
Farooquee, I. H., MSc	Demr.
Grover, R. C., MSc	Demr.
Wasi, M.	Demr.

**Civil Engineering**

Hasan, A. A. Z., BSc(Engg)	Reader
Hasan, Q. N., BSc(Engg)	Lectr.
Husain, S. M., BSc(Engg)	Lectr.
Ahmad, S., BSc(Engg)	Lectr.
Nabi, S., BSc(Engg)	Lectr.
Naqvi, N. R., BSc(Engg)	Lectr.
Khalil, F. H. K., MA	Demr.
Yadav, J. S., DiplCivlEngin	Demr.

Salam, S. A., DiplCivlEngin	Demr.
Alam, S. M. Z., DiplCivlEngin	Demr.

**Electrical Engineering**

Alhashmi, H. A., BSc(Engg)	Lectr.
Siddiqi, M. U., BSc(Engg)	Lectr.
Mathur, S. G. P.	Lectr.
Gupta, R. K., BSc(Engg)	Lectr.
Farhatullah, BE <i>Delhi</i>	Lectr.
Zaidi, H. H., BSc(Engg)	Lectr.
Ahmad, Q., DiplElectrEngin	Demr.
Ozair, M., DiplElectrEngin	Demr.
Bhatia, A. S., DiplElectrEngin	Demr.

**Mechanical Engineering**

Hasan, S. N., BSc(Engg)	Lectr.
Khan, L. S. R., BSc(Engg)	Lectr.
Khan, S. R., BSc(Engg)	Lectr.
Hasan, S., BSc(Engg)	Lectr.
Zaman, B., BSc(Engg)	Lectr.
Mustahsin, M., DiplElectr&MechEngin	Demr.

**ADMINISTRATIVE AND OTHER STAFF**

ADMINISTRATIVE STAFF. Hon. Asst. Treasurer : A. Rauf, BA LLB. Dep. Registrar : Q. H. Zaidi, MA(Ed) *Col.*, MSc MA BT ; Asst. Registrar (Academic) : S. S. Ahmad, BSc ; Asst. Registrar (Executive) : S. Chakrabarti, MA ; Asst. Registrar (Exams.) : S. M. Y. Husain, BA. Bursar : S. Husain, BA.

PROVOSTS. S.S. Hall, Dr. H. Rahman ; V.M. Hall, Dr. I. Husain ; Aftab Hall, Q. H. Farooquee ; Sulaiman Hall, Dr. M. Shafi ; Abdullah Hall, Miss A. Thomas ; Non-resident Students Centre, Prof. H. L. Sharma.

PROCTOR. Dr. A. Basir Khan.

PRINCIPALS AND DIRECTORS OF INSTITUTES. Women's Coll., Mrs. Mumtaz J. Haider ; Tibbiya Coll., Prof. H. A. Latif ; Coll. of Engineering and Technology, Prof. N. C. Saha ; Univ. Polytechnic, S. A. Abbas ; Inst. of Islamic Studies, Prof. A. Aleem ; Inst. of Ophthalmology, Dr. B. R. Shukla.

MEDICAL OFFICER. Capt. H. Rahman.

ADVISER TO FOREIGN STUDENTS. Q. H. Farooquee.

**GENERAL INFORMATION**

Founded in 1877 by the late Sir Syed Ahmad Khan as the Mohammedan Anglo-Oriental Coll., with the object of imparting to the Muslim youth a modern scientific educn., the univ. received its first charter in 1920. By the Act of 1951 the constitution of the univ. was amended to bring it into conformity with recommendations of the univ. commission and the constitution of the Indian republic. The univ., a teaching and residential instn., brings together students and scholars from different parts of the country with different religious, linguistic and cultural backgrounds.

CONSTITUTION. The main authorities of the univ. are the court, executive council, academic council, facs. and depts. of studies. All teaching staff in depts. are members of the respective depts. of studies. On the fac. are represented all profs. in the fac. and 1 reader and 1 lectr. from each

dept. of studies assigned to it ; there are also sr. teachers and learned men from outside the univ. The academic council consists of all hds. of depts. of studies and a few other members. These bodies deal with the academic side of the univ. The executive council, in which sr. members of the teaching staff are represented, deals with the executive side. The court is a larger body containing reps. of interests outside the univ. It meets once or twice a yr. and is the supreme governing body of the univ.

LIBRARIES. Central library : 103,068 vols. Deptl. libraries : philos., 1200 vols. ; maths., 3000 ; Engl., 2000 ; geog., 3000 ; econ., 2000 ; phys., 3000 ; chem., 3000 ; bot., 2500 ; zool., 2000 ; hist., 1900 ; educn., 3000 ; comm., 700 ; milit. sci., 100 ; Persian, 350 ; Arabic, 450 ; Urdu, 2000 ; Sansk., 500 ; engin., 4000.

**FACULTIES AND DEANS.** *Arts*, Prof. A. Aleem (Arabic & Islamic studies); *engin. & technol.*, Prof. N. C. Saha; *med.*, Prof. H. A. Latif (Unani Tib); *sci.*, Prof. S. M. T. Rizvi; *theol.*, M. S. A. Akbarabadi.

**MEDIUM OF INSTRUCTION.** English.

**PRE-UNIVERSITY COURSES** in arts, comm., sci. extend over 1 yr. after high sch. or matric. exam. of an Indian univ.

**FIRST DEGREES.** 3 yrs. after pre-univ. course—BA, BSc, BCom. (With the introd. of the pre-univ. & 3-yr. degree courses, the BA hons. and BSc hons. courses have been discontd.) 5 yrs. after pre-univ. course—BSc(Engg) (civil, electr., mech.). 5 yrs. after high sch.—BUMS (bachelor in Unani med. and surg.).

**HIGHER DEGREES.** 1 yr. after BA, BSc, BCom—BLib. 1 yr. after BEd—MEd. 2 yrs. after approved 1st degree—MA, MSc, MCom, LLB, BTh. 2 yrs. after approved master's degree—PhD by res. 2 yrs. after LLB—LLM. 1 yr. after BTh—MTh.

Women students are admitted to the same classes as men for MA and MSc in all subjs. and for BEd and MEd as well as to the pre-univ. and BA, BSc classes held in the Women's Coll.

**DIPLOMAS.** Stats. (1 yr. after pre-univ. course); *engin.* (civil, electr., mech.) (3 yrs. after high sch. course). Postgrad.: 1 yr.—ophthalmic med. & surg., bus. admin., steno-typing, draughtsmanship; 2 yrs.—foreign affairs, *theol.*; 1 yr.—proficiency in Arabic, Persian, German, French, Russian, Turkish, Malayalam or Telugu.

**CERTIFICATES.** Library sci. (4 mos.); proficiency in Arabic, Persian, German, French, Russian, Turkish, Malayalam or Telugu (2 yrs.).

**PRIVATE CANDIDATES.** Only women & teachers may be permitted to appear as private candidates at the following exams.: pre-univ., BA, BCom, BSc, MA, MCom, MSc (in maths., psychol. and geog. only), BTh, MTh and LLB (for women only).

**FEES.** *Tuition*: pre-univ. (arts, sci., comm.), Rs. 9 p.m.; BA, BSc, BTh, BEd or BCom, Rs. 12

p.m.; MA, MSc, LLB, MTh or MEd, Rs. 15 p.m.; MA & LLB (combined), Rs. 22 p.m.; PhD (arts or sci.), Rs. 20 p.m.; BSc(Engg), Rs. 22.50 p.m. for 1st & 2nd yrs. & Rs. 25 p.m. for 3rd & 4th yrs.; DiplEngg, Rs. 10 p.m.; BUMS (Tibbia), Rs. 5 p.m.; dipl. in ophthalmol., Rs. 25 p.m.; dipl. in foreign affairs, Rs. 50 p.a. No tuition fee in fac. of *theol.*

*Exam.*: high sch., Rs. 20; pre-univ. Pt. I, Rs. 5; pre-univ. Pt. II, Rs. 30; BA, or BSc Pt. I (one subj.), Rs. 4; BA Pt. I, or BSc Pt. I (more than one subj.), Rs. 7; BA, or BSc Pt. II, Rs. 40; BCom (previous), Rs. 20; BCom (final), Rs. 25; MA (previous) or MSc (previous), Rs. 25; MA (final) or MSc (final), Rs. 35; LLB (previous), Rs. 25; LLB (final), Rs. 40; LLM, Rs. 150; BEd, Rs. 25; MEd, Rs. 35; PhD or LLD, Rs. 100; BSc(Engg) I & II Yr., Rs. 25; BSc(Engg) III Yr., Rs. 35; Dipl(Engg) I Yr., Rs. 15; Dipl(Engg) II Yr., Rs. 20; Dipl(Engg) III Yr., Rs. 25; BUMS (Tibbia) I professional, Rs. 10, II professional, Rs. 15, III professional, Rs. 20, IV professional, Rs. 20; dipl. in ophthalmol., Rs. 100; dipl. in foreign affairs, Rs. 20; dipl. in foreign affairs (proficiency test), Rs. 10.

**ACADEMIC YEAR.** July–April; 3 terms: mid-July–beginning of Oct.; mid-Oct.–end Dec.; early Jan.–end April.

**RESIDENCE.** A feature of the univ. is its predominantly residential character. Hostels are grouped together into halls of residence each under a provost. Total residential accomm., 5000 approx. There are 4 halls for men and 1 for women: Sir Syed Hall, Viqarul Mulk Hall, Aftab Hall, Sulaiman Hall, Abdullah Hall (women only).

Non-resident students centre: 25 per cent. of the total no. of students are admitted as day scholars under the admin. control of the provost of the centre. For provosts, see 'Admin. and Other Staff', *above*.

**PUBLICATIONS.** *Calendar* (quinquennial, free); *Prospectus* (annual); *Univ. Magazine* (English and Urdu); *M.U. Gazette*.

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959–60

	Full-Time	Part-Time
Men . . .	4148	—
Women . . .	496	—
Total . . .	4644	—

**Distribution by Faculties.** *Arts*, 1710; *engin.*, 971; *med.*, 164; *sci.*, 1472; *theol.*, 14; *women's coll.*, 313. Total: 4644.

*Included in the figures above are* :—

Pre-University students, 362.

Postgraduate students, 1217.

Students from other countries, 43. (Country from which largest number came: Fed. of Malaya, 12).

**DEGREES AWARDED (1959).** *Arts*: BA (pass), 322; BA (hons.), 5; MA, 348; BLib, 20. *Comm.*: BCom, 53; MCom, 30. *Educn.*: BEd, 89; MEd, 12. *Engin.*: BSc(Engg), 73. *Law*: LLB, 145; LLM, nil. *Med.*: BUMS, 12. *Sci.*: BSc (pass), 221; BSc (hons.), 6; MSc, 121. *Theol.*: BTh, 5; MTh, nil. PhD (all facs.): 21.

**DIPLOMAS AWARDED (1959).** *Engin.*, 42; foreign affairs, 3; ophthalmic med. & surg., 7.

# UNIVERSITY OF ALLAHABAD\*

Founded 1887

*Postal Address* : Allahabad 2, Uttar Pradesh, India

*Cables and Telegrams* : University, Allahabad

*Telephone* : Allahabad 2219

CHANCELLOR—Dr. B. RAMAKRISHNA RAO

VICE-CHANCELLOR—S. RANJAN, MSc *Camb.*, FNI

TREASURER—K. L. MISRA, MA LLB

REGISTRAR—O. P. GUPTA, MSc LLB

PROCTOR—R. B. TEWARI, BA LLM JSD *Yale*

LIBRARIAN—A. B. LAL, MA

## TEACHING STAFF

### Ancient History, Culture and Archæology

Sharma, G. R., MA  
7 Asst. Profs.

Offg. Prof.

### Arabic and Persian

Hasan, S., MA PhD *Lond.*  
5 Asst. Profs.

Prof.

### Botany

Tandon, R. N., MSc PhD *Lond.*  
11 Asst. Profs.

Offg. Prof.

### Chemistry

Ghosh, S., DSc  
21 Asst. Profs.

Prof.

### Chinese

Kuang, C. H., MA PhD *Delhi*

Asst. Prof.

### Commerce

Agarwala, A. N., MA BCom DLitt  
14 Asst. Profs.

Prof.

### Economics

Mehta, J. K., MA  
15 Asst. Profs.

Prof.

### Education

Adaval, S. B., MA MEd DPhil  
7 Asst. Profs.

Asst. Prof., Hd.

### English

Mehrotra, K. K., MA BLitt *Oxon.*  
26 Asst. Profs.

Prof.

### Fine Arts

Kochak, U. S., MSc  
1 Asst. Prof., 8 Teachers

Asst. Prof., Hd.

### French and German

Junius, M. M.  
Mittra, A. K., BA DU*Paris*

(German) Asst. Prof.  
Asst. Prof.

### Geography

Khan, M. N., MA DPhil  
5 Asst. Profs.

Offg. Prof.

### Hindi

Varma, R. K., MA PhD  
16 Asst. Profs.

Offg. Prof.

### History, see also Anc. Hist.

Saksena, B. P., MA PhD *Lond.*  
7 Asst. Profs.

Prof.

### Home Science

Vyas, K. D., BSc MB BS  
2 Asst. Profs.

Asst. Prof., Hd.

### Law

Bhattacharya, K. K., MA LLM *Lond.*  
Sapru, T. N., BA LLB  
12 Asst. Profs.

Prof.  
Prof.

### Mathematics

Prasad, B. N., MSc PhD *Liv.*, DSc *Paris*,  
FNI

13 Asst. Profs.

Offg. Prof.

### Military Science

Tewari, Lt.-Col. S. G., MA  
3 Asst. Profs.

Asst. Prof., Hd.

\* Member of the Association of Universities of the British Commonwealth

**Philosophy**

Kaul, R. N., MA BLitt Oxon.  
9 Asst. Profs.

Offg. Prof.

**Russian**

Sen-Gupta, S. C., MSc

Asst. Prof.

**Physics**

17 Asst. Profs.

Prof.

**Sanskrit**

Herlekar, Miss M., MA  
9 Asst. Profs.

Offg. Prof.

**Physics, Applied**

Ghosh, S. N., DSc  
3 Asst. Profs.

Offg. Prof.

**Urdu**

Husain, S. A., MA DLitt  
5 Asst. Profs.

Prof.

**Political Science**

Lal, A. B., MA  
12 Asst. Profs.

Prof.

**Zoology**

Srivastava, M. D. L., DSc  
11 Asst. Profs.

Prof.

**ADMINISTRATIVE AND OTHER STAFF**

Accounts Officer : . . . . . Asst. Registrar  
(Admin.) : I. D. Caleb, MSc DPhil I/T (on  
leave) ; H. Williams, MA (offg.). Asst. Registrar  
(Accounts) : K. P. Mohiley, MA BT. Offg.  
Dean, Students' Welfare : B. P. Saxena, MA

PhD Lond. Supt. of Physical Educn. : H. K.  
Mukerji. Sr. Medical Officer : P. G. Ghosh,  
MB BS. Jr. Medical Officers : R. Chandra,  
MB BS ; L. Chandra, MB BS. Sec., Student  
Advisory Cttee. : O. P. Bhatnagar, MA.

**COLLEGES OF THE UNIVERSITY**

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

ALLAHABAD, *Kayastha Pathshala University*  
*College*. BA. Principal—R. K. Saxena, DSc  
Paris. 11 Tutors.

(tel. : Allahabad 85112). BA. Principal—R. N.  
Gupta. 11 Teachers.

ALLAHABAD, *Madan Mohan Malaviya College*  
(tel. : Allahabad 2832). BA. Hon. Principal—  
H. Chandra, MSc. 11 Tutors.

ALLAHABAD, *Allahabad Agricultural Institute*,  
Naini (tel. : Allahabad 85220). BSc(Agr), BSc  
(AgrEngg). Principal—J. B. Chitamber, PhD.  
26 Teachers.

ALLAHABAD, *William Holland University College*  
(American Presbyterian Mission) (tel. : Allahabad  
2814). BA. Principal—C. M. Chatterji, MA  
PhD Penn. 7 Tutors.

ALLAHABAD, *Chaudhury Mahadeo Prasad Degree*  
*College* (tel. : Allahabad 2845). BA, BSc. Actg.  
Principal—J. P. Srivastava, MSc. 34 Teachers.

**ASSOCIATED COLLEGES OF  
THE UNIVERSITY**

ALLAHABAD, *Agrawal Vidyalaya Degree College*

ALLAHABAD, *Ewing Christian College* (tel. :  
Allahabad 85026). BA, BSc. Actg. Principal—  
S. S. Gideon, MA EdD Col. 31 Teachers.

**GENERAL INFORMATION**

Founded in 1887, the univ. concerned itself mainly with exams., having no teaching staff (except that of its sch. of law) until 1914. Thereafter it establ. chairs and readerships, etc., for res. work in econ. and mod. hist. for grad. students. In 1922 an act was passed for the reorganization of the univ. as a unitary teaching and residential institution, with control, however, over the quality and character of the teaching in constituent colls. The Muir Central Coll. became the nucleus of a teaching univ., the jurisdiction of which was limited to a territorial area of 10 mls. radius from the convocation hall of the univ.

Within this area there are 7 institutions which supplement instruction given in the univ. The women's dept., which undertakes full instructn. for the degree course, has now been transferred from the Crosthwaite Girls' Coll. to the univ. area. In 1955, by a further amendment to the univ. act, two categories of coll. came into existence : colls. of the univ. (which are residential colls. for students of the univ. or recog. by the univ. in which tutorial and supplementary instructn. is provided) and associated colls. (which are also residential, but provide full degree courses as distinct from tutorial instructn.).

'The univ.'s jurisdiction is within 10 mls.' radius of the Senate Hall. It serves a population of about half a million.

**CONSTITUTION.** The principal univ. authorities are the court, executive council, academic council, fac. bds. The vice-chancellor, a full-time officer, is the principal executive and academic hd. of the univ. He is *ex-officio* chairman of the executive council and academic council and in the absence of the chancellor he presides at meetings of the univ. court and convocation. The court is the supreme governing body. The executive council is vested with the control of the univ. admin. The academic council is the supreme academic body. The function of the fac. bds. is to make recommendations to the academic council on academic matters.

**INCOME (1959-60).** Govt. grant (recurring and non-recurring), Rs. 169,155; fees, Rs. 239,811; other sources, Rs. 174,591.

**LIBRARY.** 174,070 vols. Darbhanga reading hall. Deptl. libraries for use of teachers.

**LABORATORIES.** Phys., chem., bot., zool.

**MUSEUMS.** Econ. and comm. depts. Kaushambi museum (the univ. has undertaken excavations at Kaushambi, 40 mls. S.E. of Allahabad, and exploration of prehistoric sites in the Vindhyas). A beginning has been made with a project for an art gallery.

**SHIELA DHAR RESEARCH INSTITUTE** conducts sp. res. in soil sci. **J.K. INSTITUTE OF APPLIED PHYSICS** provides res. facilities and 3-yr. course for MSc(Tech).

**USUAL LANGUAGE OF INSTRUCTION** is English. Hindi has been introduced in some undergrad. classes.

**FACULTIES AND DEANS.** Arts, Prof. B. P. Saksena (hist.); comm., A. N. Agarwala; law, Prof. K. K. Bhattacharya; sci., Prof. S. Ghosh (chem.).

**ADMISSION.** To courses of study for bachelor's degrees: exam. of inter. standard, equivalent to exam. for overseas higher sch. cert. awarded by the Univ. of Cambridge local exams. syndicate. Inter. exams. of other univs. incorporated by law in India and inter. exams. of Mysore Univ. of bd. of high sch. & inter. educn., Rajputana (incl. Ajmer-Merwara, Central India and Gwalior), are recog. for same purpose. Inter. exam. in agric. of Nagpur Univ. so recog. for admission to the BSc(Agr) class, and prelim. exam. of Mayo Coll., Ajmer, recog. as equivalent to inter. exam. of U.P. board. Grads. in agric. are eligible for admission to law classes. No inter. or pre-univ. classes are held in the univ. or in any of its colls.

For admission to courses leading to higher degrees the BA and BSc degrees of Mysore Univ., or of any univ. in India recog. by the law of the place in which it is situated, are recog.

**FIRST DEGREES.** 2 yrs.—BA, BA(HomeArts), BCom, BSc, BSc(HomeSciences), BSc(Agr), BSc(AgrEngg).

**HIGHER DEGREES.** 1 yr.—MED; 2 yrs.—MA, MCom, MSc, LLB, LLM (after LLB); 3 yrs.—MSc(Tech). Also DPhil (in arts and in sci.), DLitt, DLitt(Econ), DSc, LL.D.

**DIPLOMAS.** 1 yr.—local self-govt. admin. 2 yrs.—appl. arts & crafts, music, painting.

**CERTIFICATES.** 1 yr.—photography; soc. service & village uplift. 2 yrs.—Sansk., French, German, Russian, Chinese, Hindi.

**RESEARCH.** Facilities for res. in almost all depts. listed under 'Teaching Staff', above. Applicants for admission are considered by a res. degree cttee.

**ACADEMIC YEAR.** July to April, 3 terms. Term dates (approx.): July 16 to Oct. 3; Oct. 9 to Dec. 23; Jan. 2 to April 30.

**STUDENT RESIDENCES.** Hostels under control of the univ.: Sir Pramada Charan Banerji Hostel (accomm. 168 students), warden—Y. Sahai, MA; Sir Sunder Lal Hostel (167 students), warden—D. N. Elhance, MCom; Dr. Amaranatha Jha Hostel (107 students), warden—Major R. K. Kaul, MSc; Sir Ganganatha Jha Hostel (172 students), warden—Dr. S. Prakash; Diamond Jubilee Hostel (140 students), warden—R. K. Varma, MA DPhil; Sarojini Naidu (Women's) Hostel (106 women students), warden—Miss L. D. Pathak, MA.

Hostels and colls. recog. by the univ. (for principals of colls. and of Agric. Inst., see p. 404); William Holland Univ. Coll. (280 students); Kayastha Pathshala Univ. Coll. (279 students); Madan Mohan Malaviya Coll. (326 students); Mohammedan Boarding House (93 students), warden—Dr. M. H. Faruqi; Sumerchand Digambar Jain Hostel (55 students), warden—A. B. Saran; Ewing Christian Coll. (619 students); Chaudhury M.P. Degree Coll. (491 students); Iswar Saran Univ. Hostel (44 students), warden—N. D. Agarwal; Allahabad Agric. Inst., Naini (208 students); Agrawal Vidyalaya Degree Coll. (153 students). Fees: single room, Rs. 10 p.m.; double, Rs. 8.8 p.m.; triple, Rs. 7 p.m.

**WOMEN'S EDUCATION.** Women students reading for the BA degree are given, in the women's dept., lectures and tuition separate from men (19 women lectrs.) At present there are no such arrangements for postgrad. or sci. students. BA (HomeArts) and BSc(HomeSciences) courses for women.

**UNIVERSITY MILITARY FORMATIONS.** Membership of the N.C.C. is compulsory for students offering military sci. as 1 of their subjs. in BA and BSc classes. Every male student of BA, BSc and BCom pt. I classes is required to join either N.C.C. or phys. trg. N.C.C. comprises 2 bns., 1 battery and 1 girls' division (optional).

**STUDENT ADVISORY COMMITTEE** supplies information to students intending to go abroad for higher studies.

**STUDENT HEALTH SERVICE.** Every student by the end of the 2nd term immediately following his admission is medically examined by the univ.

**History and Politics**

Ramachandriah, O., MA PhD	
	Reader, Actg. Hd. of Dept.
Sambasiva Rao, K., BA	Lectr.
Somasekhara Sarma, M.	Lectr.
Suryanarayanamurty, E., BA	Lectr.
Venkateswarlu, K., BA	Lectr.
Ramachandrasikhao Rao, R. V., MA PhD	Lectr.
Sriramamurty, Y., BA	Res. Asst.

**Mathematics**

Ramaswamy, V., BA PhD <i>Camb.</i>	
	Prof., Hd. of Dept.
Subrahmanyam, N. V., BA	Lectr.
Ramamohana Rao, C., BA	Lectr.
Chithambaraswamy, J., BA	Lectr.
Satyanarayana, U. V., BA	Lectr.
Gopalakrishna, J., BA	Lectr.
Rajeswara Rao, K. V., BA	Lectr.
Krishnaiah, P. V., BA	Lectr.
Suryanarayana, D., BA	Lectr.

**Philosophy**

Satchidanandamurty, K., BA PhD	
	Reader, Actg. Hd. of Dept.
Lakshmana Rao, A., BA	Lectr.
Ramakrishna Rao, K., MA	Lectr.
Parthasarathy, D. N., BA	Lectr.
Krishnamurty, MA Shastri	Lectr.
Kishen, B. V., MA PhD	Lectr.
Narayanamurty, J. S. R. L., MA	Lectr.

**Politics**, see Hist. and Pol.**Rural Studies, Co-operation and Sociology**

Subrahmanyam Naidu, MA	Prof., Hd. of Dept.
Rama Rao, K. R., MA	Lectr.
Venugopal, N., MA	Lectr.

**Sanskrit**

Kunhan Raja, C., MA <i>Madr.</i> , DPhil <i>Oxon.</i>	Prof.
Sriramamuti, P., MA	Lectr.
Ramanujachari, K., Siromani POL	Pandit

**Sociology**, see Econ. and Sociol.**Statistics**

Nagabhushanam, K., MA FilLic DFil	
	Prof., Hd. of Dept.
<i>Stockholm</i>	
Avadhani, T. V., BA PhD	Reader
Krishnamurty, V., MSc	Lectr.
Ramanamurty, G. V., MSc	Lectr.
Ramachandramurty, P. V., MSc	Lectr.
Dasaradharama Rao, K., MSc	Lectr.
Bhagavan, C. S. K., MA MSc	Lectr.

**Telugu**

Somayaji, G. J., MA LT Vidwan POL <i>Madr.</i>	
	Prof., Hd. of Dept.
Narasimham, K. V. R., MA PhD	Lectr.
Krishnamurty, B., MA PhD <i>Penn.</i>	Lectr.
Joga Rao, S. V., MA PhD	Lectr.
Srinamamurty, K., MA	Lectr.
Sastri, D. V., Vidwan <i>Madr.</i>	Pandit
Madhusudan, S., Vidya Pravacna	Pandit
Donappa, T., BA	Chief Asst.
Kumaraswami Raja, N., MA	(Tamil) Asst.
Puru Shotham, B., BA	Telugu Asst.

**JEYPORE VIKRAMA DEO COLLEGE OF SCIENCE AND TECHNOLOGY****Applied Physics**

Krishnaswami Chetti, S. T., DIC, MSc	
<i>Lond.</i> , MA	Prof., Hd. of Dept.
Yerrayya Pantulu, V., MSc	Lectr.
Kameswara Rao, T. V., MSc	Lectr.
Satyanarayanamurti, D., DSc	Lectr.
Gopalakrishna, K. V., DSc	Lectr.
Srirama Rao, M., DSc	Lectr.
Venkateswara Rao, V., DSc	Lectr.
Seetharamaswamy, P., MSc	Lectr.

**Chemistry**

Gopala Rao, G., DSc <i>Alld.</i>	Prof., Hd. of Dept.
Raghava Rao, B. S. V., MSc PhD <i>Lond.</i>	Prof.
Ramachandra Rao, L., DSc	Reader
Venkateswarlu, V., PhD <i>Liv.</i> , DSc, FRIC	Reader
Panduranga Rao, V., DSc	Reader
Narasimha Sastri, M., DSc	Lectr.
Suryanarayana, M., DSc	Lectr.
Venkateswara Rao, N., MSc	Lectr.
Somidevamma, Mrs. K., DSC	Lectr.
Jagannadha Rao, K. V., MSc	Lectr.
Muralikrishna, U., MSc	Lectr.
Bhimasankara Rao, C., MSc	Lectr.
Seetharamaraju, S., MSc	Lectr.

**Geophysics**

Krishnan, M. S., DIC, PhD <i>Lond.</i> , MA <i>Madr.</i> , FNI	Prof., Hd. of Dept.
Rama Rao, B. S., DIC, PhD <i>Lond.</i> , DSc	Prof.
Ramanadham, R., DIC, PhD <i>Lond.</i> , MSc	Prof.
Subrahmanyam, V. P., DSc	(Meteorol.) Reader
Bhaskara Rao, V., MSc PhD	(Geophys.) Reader
Varadachari, V. V. R., DSc	(Meteorol.) Lectr.
Shankara Rao, M., MSc	Lectr.
Balararamamurti, C., DSc	(Meteorol.) Lectr.
Subba Rao, K., MSc	Lectr.
Janakiramayya, B., MSc	(Geophys.) Lectr.
Bhima Sankaram, V. L. S., DSc	(Geophys.) Lectr.
Jagannadhasarma, V. V., MSc	Lectr.
Arthur Paul, P., MSc	Lectr.

**Pharmacy**

Rangaswamy, S., MA PhD	Prof., Hd. of Dept.
Subba Rao, V., DSc	Reader
Viswanadham, N., DSc	Reader
Sambamurti, K., MSc	Lectr.
Narayana, C. S., PhD	Lectr.
Venkata Rao, E., DSc	Lectr.

Mallayya Sastry, K., MPharm  
Murahari Rao, B. K., MPharm

Lectr. **Physics, Nuclear**

Lectr. Swami Gnanananda, MSc PhD, FIP

Prof., Hd. of Dept.

### Physics

Rao, K. R., MA DSc Lond. Prof., Hd. of Dept.  
Ramachandra Rao, B., DSc Prof.  
Tiruvenga Rao, P., DSc Reader  
Narayana Rao, D. A. A. S., PhD Reader  
Premaswarup, D., PhD Lond., DSc Reader  
Krishnamurti, B., DSc Lectr.  
Radhakrishnamurthy, C., DSc Lectr.  
Shanthamma, C., DSc Lectr.  
Sri Rama Rao, M., DSc Lectr.  
Suryanarayana, V., DSc Lectr.  
Subba Rao, K., DSc Lectr.  
Narasimha Rao, D. V. N. L., DSc Lectr.  
Rama Rao, H. S., DSc Lectr.  
Haranath, P. B. V., DSc Lectr.  
Atchuta Rao, I., DSc Lectr.  
Gopala Rao, M. S. V., MSc Lectr.  
Raghava Rao, R., MSc Lectr.  
Paddi Reddy, S., DSc Lectr.

Suryanarayana, D., DSc  
Lakshminarayana, V., MSc  
Venugopala Rao, P., MSc  
Venkata Reddy, K., MSc  
Ramakrishnaraju, M., MA MSc  
Rama Rao, J., MSc  
Narasimhamurthy, K., MSc  
Lakshmana Sastry, D., MSc

Res. Asst.

### Technology

Venkata Rao, C., DIC, MSc PhD  
Dasa Rao, C. J., BSc(Ag) *Madr.*, MSc(Tech)  
Venkateswarlu, A., DSc  
Raghavacharya, M. V., DSc  
Chidambarswara Rao, B. (Electr. Engin.)  
Subba Rao, V., MSc  
Venkataratnam, A., MSc  
Krishnamurti, V. V. G., DSc  
Jayanama Rao, G., DSc  
Chiranjivi, C., DSc  
Jagannadharaju, G. J. V., MSc  
Dakshinamurthy, P., DSc  
Jagannadha Rao, R., MSc  
Subrahmanyam, V., MSc  
Somasundara Rao, K., MSc  
Subba Rao, B. V., MSc  
Ramamurthy, M., MSc  
Krishnamurthy, R., MSc  
Sanyasi Reddy, M., MSc  
Subba Raju, K., MSc  
Ramana Rao, M. V., MSc

Reader

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

### Physics, Mathematical

Meenakshi Sundaram, S., MA DSc  
Venkatarayudu, T., MA PhD  
Rao, P. S., DSc PhD  
Krishnamurti, T. S. G., MSc  
Sangameswara Rao, D. R. K., MSc  
Ramamurthy, S., MSc  
Vidyanidhi, V., MSc  
Krishnakumari, Miss Y., MSc  
Sundararama Sarma, G., MSc

Prof., Hd. of Dept.

Prof.

Reader

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

## ERSKINE COLLEGE OF NATURAL SCIENCES

### Botany

Venkateswarlu, J., PhD *Camb.*, DSc  
Seshagiri, P. V. V., MSc  
Venkata Rao, C., DSc  
Sree Ramulu, T., MSc  
Sundarasiva Rao, B., MSc  
Sastri, R. L. N., DSc  
Maheswaridevi, Mrs. H., DSc  
Ramakrishna Reddy, V., MSc  
Bhiraramurthy, P. V., MSc  
Srinivasa Rao, B. G., MSc  
Ramana, T. V., MSc  
Narasimha Rao, P., MSc  
Prakasa Rao, P. S., MSc  
Bhaskararawa Sastry, C., MSc  
Narasinga Rao, M. B. V., BA BSc  
Raju, C. S. K., MSc  
Sisharatharam, V., MSc

Prof., Hd. of Dept.

Reader

Reader

Reader

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Genetical Asst.

Res. Asst.

Res. Asst.

Srirama Das, A., MSc PhD  
Poornachandra Rao, M., DSc  
Aswathanarayana, U., DSc  
Krishna Rao, J. S. R., DSc  
Sarma, B. B. G., DSc  
Borreswara Rao, C., DSc  
Vaidyanadhan, R., MSc  
Sastry, A. V. R., MSc  
Satyanarayana, D. L., MSc  
Subba Rao, M., MSc

Reader

Reader

Reader

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

### Zoology

Ganapati, P. N., DSc  
Rao, T. S. S., DSc  
Dutt, S., MSc PhD  
Hanumantha Rao, K., DSc  
Narasimhamurthy, C. C., DSc  
Nagabhushanam, R., DSc  
Narasimha Rao, M. V., MSc  
Lakshmana Rao, M. V., MSc  
Bhavanarayana, P. V., MSc  
Radhakrishna, Z., MSc  
Subba Rao, D. V., MSc  
Subrahmanyam, M., MSc  
Shyama Sundari, Miss K., MSc

Prof., Hd. of Dept.

Reader

Reader

Reader

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

### Geology

Mahadevan, C., MA DSc  
Narasinga Rao, A., MSc PhD

Prof., Hd. of Dept.

Reader



## UNIVERSITY COLLEGE OF LAW

Raman, S. V., BA ML	Prof., Hd of Dept.	Gupteswar, K., BL	Lectr.
Satyanarayanamurty, B., LLM JSD Yale, BA BL	Reader	Ramachandra Rao, A. S., BSc BL	Lectr.
Lakshmana Rao, V., BA BL	Lectr.	Padmanabha Rao, B., BSc ML	Lectr.
Gopalakrishna Sastri D., LLM Yale, BA ML	Lectr.	Murty, K. S. N., LLB	†Lectr.

## UNIVERSITY COLLEGE OF ENGINEERING

**Engineering, Civil**

Krishnamacharyulu, K., DIC,, MSc Lond.

BE

Prof.

Kotiswara Rao, K., BE

Lectr.

Dayaratnam, P., BE

Lectr.

Ranganadha Rao, R. P., BTech

Lectr.

Shivaji Rao, T., BA BTech

Lectr.

Bangareswarasarma, V., BE

Lectr.

Venkata Rao, M. V., BSc BTech

Tech. Asst.

Narayana Rao, D. V., BE

Tech. Asst.

Jagannadha Rao, V., BE

Janaki Rao, A., BSc BE

Ratnam, P. V., BE

Lectr.

Krishnamurty, D., BE

Tech. Asst.

Radhakrishnamurty, V., BE

Tech. Asst.

Govinha Rao, G., BE

Tech. Asst.

Kamerwara Sarma, C., BE

Tech. Asst.

**Engineering, Mechanical**

Appa Rao, K. V., BE

Lectr.

Subba Rao, V., BE

Lectr.

Kameswarasarma, P.

Lectr.

Narasimha Rao, N. L.

Lectr.

Manoranjau, K. P., BE

Tech. Asst.

Basava Raju, G. C. V., BE

Tech. Asst.

Mohammed Amil, A., BE

Tech. Asst.

Lakshmanamurty, P., BE

Tech. Asst.

Someswara Rao, R. N., BE

Tech. Asst.

**Engineering, Electrical**

Sitapathi Rao, D., DIC, BA MSc(Eng) Lond.

Reader, Hd. of Dept.

Sitaramaraju, M., BE

Lectr.

Krishna Sastry, L. B., BTech

Lectr.

Ramamurty, V., BE

Lectr.

**Mathematics**

Sastry, J. B., BE

†Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Physical Education : Dir., K. Sudarsana Rao, BA DipPhysEdn ; Asst. Dir.,

## UNIVERSITY COLLEGES

(For Teaching Staff, see above)

Principal—Prof. C. Mahadevan, MA DSc

WALTAIR, *Erskine College of Natural Sciences*. Provides instructn. for BSc hons. in geol., bot. and zool., MSc in bot., zool., geol., geophys. and appl. geol. ; dipl. in geol.

WALTAIR, *Jeypore Vikrama Deo College of Science and Technology*. Provides BSc hons., post-hons. and res. courses in phys., chem. and technol. ; MPharm. ; MSc courses in appl. phys., geophys., mathl. phys., nuclear phys., stats., chem. technol., ore-dressing and analytical chem. ; and BTech course in chem. engin.

WALTAIR, *University College of Arts and Commerce*. Provides hons. and res. courses in maths., philos., hist., econ., politics, Telugu, Engl., comm., Sansk. ; MA course in soc. work and MBA (business admin.) ; dipl. in Hindi, dipl. and cert. courses in librarianship.

WALTAIR, *University College of Engineering*. Provides instructn. for BE degree.

WALTAIR, *University College of Law*. Provides instructn. in prelim. law, FL and BL courses of study, and facilities for postgrad. courses in law for ML and DL.

## AFFILIATED COLLEGES

[Pre-Univ., BA, etc., after the name of a coll. means that courses are provided there for Pre-Univ., BA, etc.]

### Professional Colleges

BAPATLA, *Agricultural College*. BScAg. Principal—..... 35 other Teachers.

GUNTUR, *Medical College*. Pre-Professl. Med. course, MB BS. Principal—D. J. Reddy, MD. 18 other Teachers.

GUNTUR, *St. Joseph's Training College for Women*. BED. Principal—Rev. Sr. Anna Maria, MA MED. 8 other Teachers.

KAKINADA, *Engineering College*. BE. Principal—P. Govindakrishnayya, DIC, BE. 35 other Teachers.

KAKINADA, *S.R.M. Medical College*. Pre-Professl. Med. course, MB BS. Principal—B. Narayana, MB BS MSc PhD, FNI. 12 other Profs. and Lectrs.

RAJAHMUNDY, *Govt. Training College*. BED, MEd. Principal—V. Habibullah, MA LT. 11 other Teachers.

VISAKHAPATNAM, *Andhra Medical College*. MB BS, MSc(Med), DSc(Med), MD, MS, DLO, DV, DO, DGO, DD, DA. Principal—P. Narasimha Rao, MB MS, FACS. 70 other Lectrs.

### First Grade Colleges

AMALAPURAM, *Sree K.B.R. College*. Pre-Univ., BA, BCom, BSc. Principal—P. Ramachandra Rao, MA. 31 other Teachers.

ANAKAPALLI, *A.M.A.L. College*. Pre-Univ., BA, BCom, BSc. Principal—R. Subbaiah, BSc. 9 other Teachers.

BHIMAVARAM, *Bhimavaram College*, West Godavari. Pre-Univ., BA, BCom, BSc. Principal—E. Lakshminatha Rao, MA. 70 other Teachers.

CHIRALA, *V.R.S. College*. Pre-Univ., BA, BCom, BSc. Principal—T. Rama Rao, MA PhD. 40 other Teachers.

ELURU, *Sir C. Ramalinga Reddy College*. Pre-Univ., BA, BCom, BSc. Principal—D. S. Subrahmanyam, MA BED. 60 other Teachers.

ELURU, *St. Theresa's College*. Pre-Univ., BA, BSc. Principal—Mrs. L. De Souza, MA LT. 15 other Teachers.

GUDIVADA, *A.N.R. College*. Pre-Univ., BA, BCom, BSc. Principal—A. F. Thyagaraju, MA Lond. 46 other Teachers.

GUNTUR, *Andhra Christian College*. Pre-Univ., BA, BCom, BSc, BED. Principal—T. S. Paulus, MA LLD. 78 other Teachers.

GUNTUR, *Govt. College for Women*. Pre-Univ., BA, BSc. Principal—Mrs. T. Vasundhara, BA, BSc BED. 13 other Teachers.

GUNTUR, *Hindu College*. Pre-Univ., BA, BCom, BSc. Principal—V. Subba Rao, MA. 93 other Teachers.

KAKINADA, *Pithapur Rajah's Govt. College*. Pre-Univ., BA, BCom, BSc. Principal—P. Sriramam, MA BED. 92 other Teachers.

MASULIPATAM, *Andhra Jateeya Kalasala*. Pre-Univ., BA, BCom, BSc. Principal—M. Sivakamayya, MA BED. 39 other Teachers.

MASULIPATAM, *Hindu College*. Pre-Univ., BA, BCom, BSc. Principal—M. Gourinadha Sastri, MA DSc. 75 other Teachers.

NARASAPUR, *Narasapur College*. Pre-Univ., BA, BCom, BSc. Principal—Vanguri Subba Rao, MSc BED. 22 other Teachers.

NARASARAOPET, *S.S.N. College*. Pre-Univ., BA, BCom, BSc. Principal—I. Ranganayakulu, MA LLB. 26 other Teachers.

NIDUBROLU, *P.B.N. College*. Pre-Univ., BA, BSc. Principal—G. V. Subbaramayya, MA. 12 other Teachers.

ONGOLE, *C.S.R. Sarma College*. Pre-Univ., BA, BCom. Principal—V. Muthu Iyer, MA. 12 other Teachers.

RAJAHMUNDY, *Govt. Arts College*. Pre-Univ., Pre-Professl. Agric. course, BA, BCom, BSc. Principal—K. V. Punniiah, MA BED. 33 other Teachers.

SRIKAKULAM, *Govt. Arts College*. Pre-Univ., BA, BSc, BCom. Principal—K. Rajamannar, MA LT. 13 other Teachers.

TENALI, *V.S.R. College*. Pre-Univ., BA. Principal—S. P. Ragland, MA LT. 18 other Teachers.

VIJAYAWADA, *Andhra Loyola College*. Pre-Univ., BA, BCom, BSc. Principal—Fr. D. Gordon, MA. 23 other Teachers.

VIJAYAWADA, *S.R.R. & C.V.R. Govt. College*. Pre-Univ., BA, BCom, BSc. Principal—N. Rama Rao, MA BED. 71 other Teachers.

VISAKHAPATNAM, *Mrs. A. V. N. College*. Pre-Univ., Pre-Professl. Med. course, BA, BCom, BSc. Principal—C. Suryaprakasam, MA BED. 65 other Teachers.

VIZIANAGARAM, *Maharaja's College*. Pre-Univ., BA, BCom, BSc, BED. Principal—V. Venkata Rao, MSc. 56 other Teachers.

WALTAIR, *St. Joseph's College for Women*. Pre-Univ., BA BSc. Principal—Sr. Maria Germiné. 8 other Teachers.

### Oriental Colleges

[BP, POL, VP after the name of a coll. means that courses are provided there for  
Bhasha Praveena, cert. of proficiency in oriental learning, Vidya Praveena]

AUKIRIPALLI, *Sri Markundoya Sanskrit College*. BP, VP. Principal—P. Venkateswara Sastri. 4 other Teachers.

BHIMA VARAM, *Oriental College*. BP, VP. Principal—D. Sarveswara Sastry. 5 other Teachers.

GUDIVADA, *Andhra Nalanda Oriental College*. BP, VP. Principal—S. V. Seshayya, MA LT. 5 other Teachers.

GUNTUR, *Oriental College*. BP, VP. Principal—K. Subbaramariah, Bhasha Praveena. 4 other Teachers.

GUNTUR, *Saradaniketanam*. BP, DipinMusic. Principal—Vidwan Mrs. M. Savithri Devi. 4 other Teachers.

KOVVUR, *S.V.J.V. Sanskrit College*. BP, POL, VP. Principal—K. V. N. Appa Rao, MA. 5 other Teachers.

MASULIPATAM, *Narasimha Sanskrit College*, Chittigudur. BP, VP. Principal—S. T. G. Varadachari, MA. 7 other Teachers.

MODEKURRU, *Challapalli Rajeswari Sanskrit*

*College*. BP, VP. Principal—K. Somasekhara Sastry. 2 other Teachers.

PONUR, *Advanced Sanskrit College*. BP, VP. Principal—P. Perayya Sastry. 4 other Teachers.

RAJAHMUNDRY, *Andhra Women's Sanskrit College*. BP. Principal—Mrs. B. Kamakshamma. 13 other Teachers.

RAJAHMUNDRY, *S.G.V.P. Oriental College*. BP, VP. Principal—K. A. Padmanabha Sastry. 5 other Teachers.

TENALI, *Kota Lakshmiah Naidu Sanskrit College*. BP. Principal—P. Ramakoti Sastri. 6 other Teachers.

VIJAYAWADA, *Oriental College*. BP. Principal—V. V. R. Somayaji.

VIZIANAGARAM, *Maharaja's Music College*. DipinMusic. Principal—..... 4 other Teachers.

VIZIANAGARAM, *Maharaja's Sanskrit College*. BP, VP. Principal—K. Sriramamurti Sastry. 12 other Teachers.

### GENERAL INFORMATION

The act of the Madras legislative council constituting the Andhra Univ. 'in and for the Telugu districts of the presidency of Madras' came into force in 1926. By a later act, the area has been narrowed down by the exclusion of certain districts, leaving the following within the affiliating jurisdiction of the univ.: Srikakulam, Visakhapatnam, East Godavari, West Godavari, Kistna and Guntur. The act establishes 5 categories of colls.: 'univ. colls.', providing for pass and hons. or postgrad. courses for higher degrees; 'first grade colls.', providing courses for the ordinary degrees in arts or sci.; 'second grade colls.' (there are none at present), preparing for the pre-univ. exam.; 'professional colls.', providing courses in agric., engin., teaching, and for med. degrees, and 'oriental colls. (recognized)', providing courses for oriental titles.

CONSTITUTION. The supreme governing body is the senate. The vice-chancellor, a whole-time salaried officer and principal executive, is nominated by the chancellor for a period of 5 yrs. The other principal authorities of the univ. are: an executive body called the syndicate comprising 15 members, incl. the vice-chancellor, financial sec. to the state govt. and dir. of public instrn. (Andhra Pradesh: Hyderabad Deccan); the academic council; the facs. and bds. of studies.

INCOME (1958-59). Total, Rs. 7,985,576 (govt. grant, 35.2 per cent.; exam. fees, 21.1 per

cent.; tuition fees from univ. colls., 7.2 per cent.; publicns., 1.6 per cent.; other fees, 34.9 per cent.).

LIBRARY. 80,900 vols.

FACULTIES. Agric., arts, comm., engin., law, med., oriental learning, sci., teaching.

ADMISSION to pre-univ. course is by matric. exam. and secondary sch. leaving cert. exam. (the latter conducted by the Andhra govt.) or any other equivalent exam.

PRE-UNIVERSITY COURSE. Candidates who pass the matric. or S.S.L.C. exam. follow a 1-yr. course, which began in 1957, leading to the pre-univ. exam. On passing the pre-univ. exam. a student may be admitted to the 3-yr. pass or 4-yr. hons. degree course, or to the 1-yr. pre-professional course leading to the course for a professional degree. The last admissions to the 2-yr. IA&Sc course took place in 1956.

FIRST DEGREES (see also above). 3 yrs. after pre-univ.—BA, BCom, BSc; 4 yrs. after pre-univ.—BA hons. (in econ., Engl., hist., maths., philos., pol., Sansk., Telugu), BCom hons., BSc hons. (in bot., chem., geol., maths., phys., zool.); 3 yrs. after IA&Sc or pre-professional—BScAg; 3 yrs. after pre-professional or 4 yrs. after pre-univ.—BPharm; 4 yrs. after pre-professional or 5 yrs. after pre-univ.—BE, BTech (in chem. engin.);

4½ yrs. (plus 1 yr. post-exam. trg.) after IA&Sc or pre-professional—MB BS.

**HIGHER DEGREES.** 1 yr.—BEd, MA (after BA hons. : no further exam.), MCom (after BCom hons.), MSc (in chem. technol., mathl. phys., ore-dressing, phys. & nat. scis.) (after BSc hons.), MEd (after BEd), MCom hons. (after MCom); 2 yrs.—BL, MA hons. (after BA hons.), MA in soc. work, MBA (business admin.), MSc (2 yrs. after MB BS and not less than 1 yr. after registration for res.), MSc (in statistics) (after BA hons. or BSc hons. in maths.), MSc (in analyt. chem., appl. geol., appl. phys., geophys., nuclear phys.) (after BSc hons.), MScAg (after BScAg), MPharm (after BPharm), ML (after BL), DL (after ML); 3 yrs.—DSc (after MSc or MB BS); 5 yrs.' practice or 3 yrs.' hosp. practice after MB BS, followed by 6 mos.' lecture course—MD, MS. Also PhD (in arts, comm.), 2 or 3 yrs.

**HONORARY DEGREES.** DLitt, DSc, LLD, Kala-Prapurna (hon. doctorate in oriental learning).

**DIPLOMAS AND CERTIFICATES.** Titles: Vidya Praveena and Bhasha Praveena (each 4 yrs.' course). Certs. of proficiency in oriental learning (POL); cert. in librarianship (3 months' course);

dipls. in French, German, librarianship, music, geog. and Hindi (each 1-yr. course except music, 2 yrs.); postgrad. dipls. in med. & surg. (each 1 yr. after MB BS)—DA, DD (dermatol.), DGO, DLO, DO, DV, TDD.

The EXAMINATIONS of all statutory Indian univs. are recog. as equivalent to the corresponding exams. of the univ.

**ACADEMIC YEAR.** July–March, 3 terms. Term dates (approx.): July 1 to Sept. 10; Oct. 3 to Dec. 23; Jan. 18 to March 31.

**MEDIUM OF INSTRUCTION** is English.

**RESIDENCE.** Every student of the univ. must reside in a hostel or under prescribed conditions. 9 univ. hostels for men: Sadharma Sadhana, Viveka Vinyasa, Vinaya Vihara, Asoka Vardhana, Harsha Vardhana, Siddhardha, Kirlampudi, Pithapuram, new engin. hostels; 1 univ. hostel for women.

**PUBLICATIONS.** *Univ. Code*, vol. I (act and statutes) every 2 yrs., vol. II (regns., syllabuses, ordinances) every 3 yrs.; *Annual Register* (univ. authorities, staff); *Annual Report*; *Minutes*; *Students' Handbook*.

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1958–59\*

	Univ. Colls.	Affiliated Colls.	Oriental Colls.
Men	2288	19,800	222
Women	133	2,159	75
Total	2421	21,959	297

Distribution by Faculties, etc. *Agric.*, 420; *arts*, 14,050; *comm.*, 1822; *engin.*, 1145; *law*, 416; *library sci.*, 53; *med.*, 1463; *ore-dressing*, 2; *oriental learning*, 297; *pharm.*, 54; *sci.*, 4465; *teaching*, 377; *technol.*, 113. Total: 24,677.

Included in the figures above are :—

Pre-University students, 7780.

Pre-Professional students, 578.

Postgraduate students, 15,960.

New admissions, 17,733.

Students from other countries, 11. (Country from which largest number came: Fed. of Malaya, 3).

**DEGREES AWARDED (Dec. 1959).** DSc, 17; MA (hons.), 2; MSc (by res.), 34; MSc (biochem.), 1; MD, 4; MS, 10; MB BS, 85; BEd, 365; MEd, 3; BL, 138; ML, 1; BScAg, 51; MScAg, 4; BE, 187; MPharm, 10; BSc, 757; MA, 83; MA (soc. work), 20; BA (hons.), 141; BA, 2084; MBA, 16; MCom, 24; BCom (hons.), 33; BCom, 439.

**ORIENTAL TITLES.** Vidya Praveena, 16; Bhasha Praveena, 74; Ubhayabhasha Praveena, 1.

**DIPLOMAS AWARDED (Dec. 1959).** DGO, 5; DO, 2; DLO, 2.

\* All students are full-time

# ANNAMALAI UNIVERSITY\*

Founded 1928 ; incorporated 1929

Postal Address : Annamalaiagar, Madras State, South India

Cables and Telegrams : University, Annamalaiagar

Trunk Telephone : CDM 49

CHANCELLOR—H.E. THE GOVERNOR OF MADRAS

PRO-CHANCELLOR AND FOUNDER—RAJAH SIR M. A. MUTHIAH CHETTIAR OF CHETTINAD, BA DLitt

VICE-CHANCELLOR—Lt.-Col. T. M. NARAYANASWAMI PILLAI, MA BL

REGISTRAR—T. D. MEENAKCHISUNDARAM, BA BL *Madras*

BURSAR—R. NAGARAJAN, BA

HON. LIBRARIAN—R. RAMANUJACHARIAR, MA

## TEACHING STAFF

### Agriculture

Rangaswami, G., PhD <i>Rutgers</i> , BSc(Ag)	Prof.
Sambandam, C. N., BSc(Ag)	(on leave) Lectr.
Chandrasekaran, S., BSc(Ag)	(on leave) Lectr.
Pandurangan, S. V., BSc(Ag)	Lectr.
Lakshmanan, A. R., BSc(Ag)	Lectr.
Rama Rao, R., MSc(Ag)	Lectr.
Narayana Prasad, N., MSc(Ag)	Lectr.
Alagappan, R. M., BSc(Ag)	Lectr.
Parameswara Menon, V.	Lectr.
Kaliaperumal, S., MSc(Ag)	Lectr.
Kalyanasundaram, P., MSc(Ag)	Lectr.
Balasubramanian, V. R., BSc(Ag)	Demr.
Chidambaranathan, A., BSc(Ag)	Demr.

Biological Stn., Portonovo

Seshaiya, R. V., MA	Prof., Dir.
Jacob, J., MA PhD	Sr. Res. Officer

### Botany

Singh, T. C. N., DSc	Prof.
Rangaswami Ayyangar, K., MSc PhD	Lectr.
Srinivasan, C., MSc	Lectr.
Ganesan, R., MSc	Lectr.
Gnanam, A., MSc BT <i>Madras</i>	Lectr.
Kasinathan, N., MSc	Demr.

### Chemistry

Baliah, V., MSc PhD <i>Stan.</i>	Prof.
Suryanarayana, C. V., MSc DPhil <i>Alld.</i>	Reader
Balasubramanian, M., MA PhD	Reader
Krishnamurti, S., MA MSc	(on leave) Lectr.
Shanmuganathan, S., MA MSc PhD	(on leave) Lectr.
Gopalakrishnan, V., MA MSc	Lectr.
Ganapathy, K., MSc	Lectr.

Somasundaram, K. M., MSc PhD

(on leave) Lectr.	
Tiruvenkatachari, V., MSc	(on leave) Lectr.
Natarajan, C., MA MSc	Lectr.
Ekambaram, A., MSc	Lectr.
Mangalamudaiyar, A., MSc	Lectr.
Rangarajan, T., MA MSc	Lectr.
Panayappan, R., BSc	Lectr.
Srinivasan, C., MSc	Lectr.
Ramakrishnan, V., BSc	Demr.
Srinivasan, S., BSc	Demr.
Anantakrishna Nadar, P., BA	Demr.

### Commerce

Rajagopalan, S., BA	Prof.
Ramachandran, N., BA BL <i>Madras</i>	Reader
Gopalakrishnan, K., BCom	Lectr.
Sivapragasam, S., BA	Lectr.
Lakshmirathan, A., MA BCom	Lectr.
Gnanaprakasam, M. K., BA	Lectr.
Bakthavatsalu, B., BA, FCA	Auditor
Mani, P. L., BCom	Tutor
Varadarajan, B., BCom	Tutor

### Dravidian Philology

Shanmugam Pillai, M., MA MLitt	Reader
Radakrishnan, R., MA	(on leave) Lectr.
Mahadeva Sastri, MA	Lectr.
Kushalappa Gowda, MA	Lectr.
Balakrishnan, B. C., BA	Lectr.
Shanmugam, S. V., BA	Lectr., Res. Asst.
Sundaresa Vandayar, V., Vidwan	Res. Asst.

### Economics

Sonachalam, K. S., MA	Prof.
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\* Member of the Association of Universities of the British Commonwealth

Meenakchi Tyagarajan, Miss, PhD *Kansas*,  
MA MLitt Reader  
Ramaswami, A., MA MLitt Reader  
Subbiah, A., MA Lectr.  
Anantaraman, V., BA (on leave) Lectr.  
Balasubramanian, M., MA Lectr.  
Madhavan, M. R., BA Lectr.  
Sabapathy, T., MA Lectr.  
Thiagarajan, K. R., BA Lectr.  
Manikkam, P. L., BA Lectr.  
Sankaranarayanan, U., BA Lectr., Res. Asst.

### Education

Ramanujachari, R., MA Prof.  
Ramachandran, J., MA LT MED *Madr.* Lectr.  
Rajagopalan, S., MA BT Lectr.  
Srinivasa Rao, R., MSc *Nag.*, BT *Madr.* Lectr.

### Engineering, see below

### English

Duraswami, M. S., MA Prof.  
Subrahmanya Ayyar, A. C., MA Addl. Prof.  
Myleru, C. R., MA Reader  
Sethuraman, V. S., MA PhD Lectr.  
Gopalakrishnan, G., MA (on leave) Lectr.  
Sitaraman, M. V., BA Lectr.  
Subramanyan, S., BA Lectr.  
Satchidanandam, V., BA Lectr.  
Venkattanna, G., BA Lectr.  
Sitaramiah, K. B., MA Lectr.  
Ganapathy, R., MA Lectr.  
Javaraman, J., MA Tutor  
Varavanathan, S., BA LT *Madr.* Tutor  
Arunachalam Pillai, T. S., BA LT *Madr.* Tutor  
Kuppuswami Ayyar, R., MA LT *Madr.* Tutor  
Rajamani, S. I., BA LT *Madr.* Tutor  
Govindaswami Pillai, T. D., MA Tutor  
LT *Madr.* Tutor  
Irudayam Pillai, C., MA LT *Madr.* Tutor  
Singaravelu Mudaliar, V., BA LT *Madr.* Tutor  
Narasimharaghavan, S., BA LT *Madr.* Tutor  
Muthukrishnan, S., BA LT *Madr.* Tutor  
Natesa Pillai, D., BA LT *Madr.* Tutor

### French and German

Tamby, T. P., BA Reader

### Geology

Muthuswami, T. N., MA Prof.  
Rajagopalan, N., MSc Lectr.  
Narasimha Rao, P., MSc Lectr.  
Sitaraman, M. S., MA Lectr.  
Gnanasekharan, R., BSc Lectr.  
Louisnathan, S. I., BSc Demr.  
Arunachalam, D., BSc Demr.

### Hindi, see Urdu and Hindi, below

### History and Politics

Sathianatha Ayyar, R., MA Prof.  
Krishnaswami, A., MA LT PhD Reader

Srivirarayan Raja, P. K., MA *Yale*, MLitt Reader  
Balasubramanyan, D., MA Lectr.  
Tirugnanasambandam, S., MA Lectr.  
Govindaswamy, M. S., MA Lectr.

### Mathematics

Ganapati Ayyar, V., MA DSc Prof.  
Sankaranarayanan, G., MSc PhD Reader  
Padma, Miss Narasimhachari, MA PhD Reader  
Ganesan, N., BA Lectr.  
Padmanabhan, K. S., MA Lectr.  
Kannappan, P. L., BSc Lectr.  
Unni, K. R., BA (on leave) Lectr.  
Balakrishnan, R., BSc Lectr.

### Music

Dandapani Desigar, M. M. Prof.  
Rajamanikkam Pillai (Violin) Addl. Prof.  
Gomati Sankara Ayyar, V. S. (Vina) Lectr.  
Vajravelu Mudaliar, M. P. (Vocal) Lectr.  
Sivasubrahmanya Pillai, T. N. (Vocal) Lectr.  
Gowri, Miss M. Gagavanna Naidu (Vina) Lectr.  
Rajagopal Pillai, M. S. (Vocal) Lectr.  
Ramadas Rao, T. S. (Mridangam) Lectr.  
Rangachari, T. K. (Vocal) Lectr.  
Subramania Mudaliar, M. (Tevaram) Lectr.  
Sambandam Pillai, T. S. (Violin) Lectr.

### Painting

Madhava Menon, K. Artist

### Philosophy

Adinarayan, S. P., MA PhD *Lond.* Prof.  
Jesudas, D. I., MA MLitt Reader  
Ramalingam, C., MA Lectr.  
Swaminathan, K., MA LLB Lectr.  
Kolappa Pillai, R., MA Lectr.

### Physical Education

Shanmugasundaram, S., BA Prof.  
Aiyaru, C. Lectr.  
Sabapathy, V., BSc MA *Ban.* Lectr.  
Venkataraman, E., BSc Lectr.  
Kalyanasundarammal, Mrs. Chinnaswamy, BA Lectr.  
Sethumadhava Rao, V. S., BSc (on leave) Lectr.

### Physics

Venkateswaralu, K., DSc Prof.  
Visvanathan, R. K., MA Reader  
Raghavacharlu, I. V. V., MSc PhD Reader  
Somasundaram, V., MA MSc Reader  
Sriraman, S., MA MSc PhD Reader  
Vijayaraghavan, K., MA MSc Lectr.  
Visveswaran, K., MA Lectr.  
Tirugnanasambandam, P., MA PhD (on leave) Lectr.  
Krishna Pillai, M. G., MSc *Ban.* (on leave) Lectr.  
Swetaranyam, S., MSc Lectr.  
Jagatheesan, S., MSc Lectr.

Lectr.	Devaneyya Pavanar, G., MA Vidwan BOL	
Lectr.		Reader
Demr.	Vellaivaranam, K., Vidwan	Lectr.
Demr.	Ramanuja Ayyangar, T. K.	Lectr.
	Govindaswami, M., BOL	Lectr.
	Venkataraman Chettiar, S., Vidwan	Lectr.
Prof.	Ramanujachari, P. S., Siromani	Lectr.
Lectr.	Sivaprakasa Desigar, N., Vidwan	
		Lectr., Res. Ass.

Venkateswaran, C. S., MA PhD Siromani	Prof.	Ramanujachari, P. S., Siromani	Lectr.
Subramania Satriar, V., Siromani	Lectr.	Sivaprakasa Desigar, N., Vidwan	Lectr., Res. Asst.
Srinivasachariar, K., Siromani	Lectr.		
Guruswami Satriar, R., Siromani	Lectr.	<b>Urdu and Hindi</b>	
Seshadri Acharya, V. K., BOL MA Vidwan		Rasool, S. G., Adib-i-Fazil Pravenna	<i>Madr.</i>
Siromani	Lectr.		(Hindi) Lectr.
Natarajan, M., MA	Lectr.	<b>Zoology</b>	

Cornelius, Miss Mercy, MA <i>Col.</i> , MSc	Sankaramurthy, Mrs. Ponnammma, BSc	
EdD <i>Mich.</i> , BA LT	(on leave)	Lectr.
Srinivasamurthy, C. V., MA MEd <i>Madr.</i>	Kalyanam, N. P., BSc	Lectr.
Prof.	Srinivasan, K., BSc	Lectr.
Reader	Swaminathan, S., BSc	Lectr.
Lectr.	Annamalai, S., BSc	Lectr.
Demr.		
Gomathinayagam, V., MA		
Ramanathan, M., BA BEd		

Rangaswami Ayyar, K., MA MSc PhD	Prof.	Chandrababu, S., BSc	Demr.
Gnanakkan Thangiah, S., MA	Lectr.		
Nandagopal, V. R., MSc	Lectr.	<b>ENGINEERING</b>	
Nagarajan, T. C. A. G., MSc	Lectr.		
Manueal, C. J. G., MSc	Lectr.	<b>Civil Engineering</b>	
Karuppan Chetty, V. R., BSc	Demr.	Venkatesan, L., MS <i>Colorado</i> , BE	Prof.
Balachandran, V., BSc	Demr.	Alexander, G., BSc BE MSc(Eng)	Reader

Meenakchisundaram, T. P., MA BL MOL	Prof.	Suryanarayana, D., BE	Reader
Ramaswami, A., MA LT <i>Madr.</i>	Lectr.	Kungithapatham, V., BSc BE	Reader
Annamalai, M., MA	Lectr.	Srinivasan, K., BE	(on leave) Lectr.
Ramanathan, S. P., BA	Lectr.	Valliappan, S. M., BE	Lectr.
Vaithilingam, S., BA	Lectr.	Damodaran Rao, T., BE BSc	Lectr.
Tirunavakarasu, S., BA	Lectr.	Valliappan, P. L., BE	(on leave) Lectr.
Dandapani Desigar, S., Vidwan	Lectr.	Govindaswami, S., BE	Lectr.
Arunachalam, P., Pulavar BOL	Lectr.	Thangaraj, M., BE	Lectr.
Arumugam, K., MA BOL	Lectr.	Natarajan, P., BE	(on leave) Lectr.
Damodaran, G., MA	Lectr., Res. Asst.	Murugesan, K., BE MTech	Lectr.
Ramalingam, N., Vidwan	Tutor	Madhavan, K., BE	Lectr.
Meyyappan, B. A.	Tutor	1 Draughtsman, 1 Lab. Asst.	
Elavarasu, S. M., Pulavar TD	Tutor		

Ramanathan Chettiar, L. P. K., Vidwan Pandita	Prof.	Balasundaram, V., MA (on leave) Reader
Arunachalam Pillai, M., Vidwan	Reader	Rajagopalan, T. R., MSc(Eng) S <sup>t</sup> on., MA Reader
Somasundaram Pillai, V. M., Vidwan	Lectr.	Parthasarathi, G., MA Reader
Chintamani, K. N., BOL MA BSc	Lectr.	Balachandran, T., BE Lectr.
Muthuswami Pillai, M., Vidwan	Lectr.	Agoram, G., BE (on leave) Lectr.
Rajagopalan, N., BSc MA BT	Lectr.	Annamalai, N., BE Lectr.
Lakshmanaswami, K., BOL	Lectr.	1 Draughtsman, 1 Lab Asst.
Natesa Mudaliar, A., Vidwan	Lectr.	
Hamsathwani, Miss Tiruvannamalai N., BA		<b>General</b>
Ulaga Oozhian, Vidwan	Lectr.	Rangachari, S., MA Lectr.
	Lectr.	Srinivasaraghavan, N., MSc Lectr.

Subramania Pillai, G., MA BL Vidwan Prof. Sambasivan, S., MA MSc Lectr.  
Ponnuswami, S., BSc Lectr.

Venkatesan, L., MS <i>Colorado</i> , BE	Prof.
Alexander, G., BSc BE MSc(Eng)	Reader
Kannan, M., BE	(on leave) Reader
Sethunarayanan, R. M., DIC, MSc(Eng) <i>Lond.</i> , BE	Reader
Suryanarayana, D., BE	Reader
Kungithapatham, V., BSc BE	Reader
Srinivasan, K., BE	(on leave) Lectr.
Valliappan, S. M., BE	Lectr.
Damodaran Rao, T., BE BSc	Lectr.
Valliappan, P. L., BE	(on leave) Lectr.
Govindaswami, S., BE	Lectr.
Thangaraj, M., BE	Lectr.
Natarajan, P., BE	(on leave) Lectr.
Murugesan, K., BE MTech	Lectr.
Madhavan, K., BE	Lectr.
1 Draughtsman, 1 Lab. Asst.	

Balasundram, V., MA	(on leave) Reader
Rajagopalan, T. R., MSc(Eng) <i>S' ton.</i> , MA	Reader
Parthasarathi, G., MA	Reader
Balachandran, T., BE	Lectr.
Agoram, G., BE	(on leave) Lectr.
Annamalai, N., BE	Lectr.
1 Draughtsman, 1 Lab Asst.	

Rangachari, S., MA	Lectr.
Srinivasaraghavan, N., MSc	Lectr.
Jeyarajan, P. A., BSc	Lectr.
Govindarajan, M. S., BSc	Lectr.
Sambasivan, S., MA MSc	Lectr.
Ponnuswami. S., BSc	Lectr.

Rego, G. A., BA  
 Varadachari, R., MSc PhD  
 Thiruvengadathan, S., BSc  
 Natarajan, V.  
 Ramalingam, K., BSc  
 Arulanandam, D., BA LT *Madr.*  
 Draughtsman, 1 Lab. Asst.

Lectr. Lakshmanan, S. M., PhD *Lond.*,  
 Lectr. MSc(Tech) Addl. Prof.  
 Demr. Adivarahan, P., BSc BSc(Tech) *Madr.*  
 Demr. (on leave) Reader  
 Demr. Alagaraswami, V., BSc BSc(Tech) *Madr.* Reader  
 Demr. Selvarajan, N., BE(Chem) Reader  
 Tutor Ramalingam, M., BE Reader  
 Shanmuganathan, S. P., PhD (on leave) Reader  
 Ramaswami, P. L., MA Reader  
 Bhineswara Rao, P., MSc(Tech) *Madr.*

### Mechanical Engineering

Paul, Lt.-Col. S., BE Prof., Hd. of Dept.  
 Rajaram, C., BA BE Prof.  
 Muthuveerappan, V. R., BE  
 (on leave) (Workshop) Reader  
 Saravanaperumal, V., BE Reader  
 Kannappan, S., BE Reader  
 Vaidyanathan, P. V., BE Lectr.  
 Durairajan, P. W., BE (on leave) Lectr.  
 Sathakku, S., BE Lectr.  
 Ayyaswami, R., BE Lectr.  
 Subramaniam, M. S. M., BE Lectr.

(on leave) Lectr.  
 Nallaperumal, U., BE(Chem) (on leave) Lectr.  
 Rangarajan, S., BE(Chem) MSc Lectr.  
 Bairavan, R., BE(Chem) Lectr.  
 Andiappan, A., BE(Chem) Lectr.  
 Balasubramanian, V., MSc Lectr.  
 Palaniappan, D., BE Lectr.  
 Mohanarangabashyam, K. S. R., MA Lectr.  
 Natarajan, N. M., BE(Chem) MSc Lectr.  
 Ramakrishnan, T., BE Lectr.  
 Subbarayan, P., MSc Lectr.  
 Manikkam, K., BE(Chem) Demr.  
 Hariharasubramanian, S., BSc Demr.  
 Govindaswami, S., BSc Demr.  
 Ranganathan, R., BE(Chem) Demr.

### Technology

Palaniappan, N. P., MSc MScTech *Manc.* Prof.

## ADMINISTRATIVE AND OTHER STAFF

WARDENS OF HOSTELS. Arts and Sci., V.  
 Balrah, MSc PhD *Stan.*; Engin. and Technol.,  
 C. Rajaram, BA BE.

RESIDENT MEDICAL OFFICER. D. A. D. Nath,  
 DM&S *Calc.*

## GENERAL INFORMATION

As the result of an offer by Rajah Sir S. R. M. Annamalai Chettiar of Chettinad to transfer to a residential teaching univ., if one were founded, the Sri Minakshi Coll. for higher instructn. in English, the Sri Minakshi Tamil Coll. and the Sri Minakshi Sanskrit Coll. which he had establd. and maintained, together with an endowment of Rs. 20 lacs, the govt. of Madras passed an act in 1928 accepting the offer and providing for the establ. of Annamalai Univ. Govt. also provided Rs. 27 lacs towards the endowment fund, a recurring grant of  $1\frac{1}{2}$  lacs a yr., and, subject to conditions agreed between govt. and the univ., a sum of  $7\frac{1}{2}$  lacs for bldg. and equipment. The annual recurring grant is now Rs. 709,000.

The univ. is a unitary teaching univ. with no affiliated colls.

CONSTITUTION. The authorities of the univ. are the senate, academic council, facs., bds. of studies, syndicate, finance cttee. and bd. of selection. The chancellor, pro-chancellor, vice-chancellor, senate, academic council and syndicate constitute the body corporate of the univ. The vice-chancellor, who is the principal executive officer, holds office for 3 yrs., and is apptd. by the chancellor on nomination of the founder.

LIBRARY. 128,748 vols.

LABORATORIES. Agric., bot., chem., engin. &

technol., geol., phys., zool., with workshops and arrangements for practical work for all students.

USUAL LANGUAGE OF INSTRUCTION. English.

FACULTIES AND DEANS. *Arts*, Prof. K. S. Sonachalam (econ.); *educn.*, Prof. R. Ramanujachari; *engin. & technol.*, Lt.-Col. S. Paul (mech. engin.); *fine arts*, Prof. M. M. Dandapani Desigar (music); *oriental studies*, Prof. L. P. K. Ramanathan Chettiar (Tamil); *sci.*, Dr. K. Rangaswami Ayyar (*stats.*).

ADMISSION. Holders of approved sch. leaving certs. may be admitted to a course of study in the univ. Exams. of all statutory Indian univs. are recog. for purposes of admission.

PRE-UNIVERSITY COURSES in arts and sci. extend over 1 yr. after secondary sch. or matric. exam. of an Indian univ. or equivalent exam. Pre-professional courses for admission to BE, BSc(Ag) and BE(Chem) courses extend over 1 yr. after the pre-univ. course.

FIRST DEGREES. 3 yrs. after pre-univ. course—BA, BSc, BOL, BMus, BCom, BSc(Ag); 4 yrs. after pre-professional course—BE, BE(Chem).

HIGHER DEGREES. 2 yrs. postgrad.—MA, MSc in bot., chem., geol., phys., stats., zool., agric. engin., pub. health engin., struct. engin., MCom, MOL, BED, MLitt, MSc(Ag); 2 yrs. after



approved master's degree—PhD; 1 yr. after PhD, or 2 yrs. after MLitt or MSc—DLitt, DSc.

**DIPLOMAS.** Titles in oriental learning (Vidwan, Pulavar and Siromani) and oriental music (Sangita Bushana), 4 yrs.' course in each case. Dipls. in French, teaching Tamil, teaching Sansk., 1 yr.; dipl. in drawing & painting, 3 yrs.; dipl. in elocution & drama, 2 yrs.

**CERTIFICATES.** French, German, Kanada, linguistics, Malayalam, Tamil music, Telugu, 1 yr. course in each case.

**RESEARCH** facilities available in all depts. of facs. of arts, sci. and oriental studies leading to MLitt, MSc, PhD, DLitt or DSc. In the depts. of engin. and technol. res. may be undertaken for MSc.

**FEES.** Tuition, per term: pre-univ., Rs. 65; pre-professional Rs. 100; BA, BSc, BCom, Rs. 75; BA (hons.), BSc (hons.), BCom (hons.), Rs. 90; BMus, Rs. 45; BE, BE(Chem), Rs. 100; oriental titles, Rs. 15; dipl. and cert. courses Rs. 20. In addn., there are deposit and lab. fees.

**ACADEMIC YEAR.** June to March, 3 terms. Term dates (approx.): June 15 to Sept. 24; Oct. 10 to Dec. 21; Jan. 4 to March 31.

**TUTORIAL INSTRUCTION** and disciplinary supervision for all students are provided by assigning about 15 students to each member of staff.

**RESIDENCE.** (For wardens see 'Admin. and other Staff', *above*.) Students are required to live in hostels attached to the univ. or in approved lodgings. Separate hostel with a lady warden for women students.

**HEALTH.** A dispensary with an isolation ward is maintained for the benefit of students and staff. Phys. trg. is compulsory for all students, and weekly lectures on physiol., health and hygiene are delivered for their benefit.

**GENERAL COUNCIL OF ASSOCIATIONS.** Membership open to all students on payment of a fee.

**'OPEN' RESEARCH AWARDS.** Studentships tenable 2 yrs., value Rs. 100 p.m. Fellowship tenable in India and abroad, value Rs. 125 p.m.

**PUBLICATIONS.** *Calendar* (publd. periodically), Rs. 5½; (annual) *Fac. Handbooks* (information about courses, syllabi, regns.); *Annual Report* (April); *Univ. Journal* (annual), Rs. 7.8; *Students' Handbook* (July), Rs. 1; *Students' Magazine* (March), Rs. 1.8.

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	3023	52
Women . . .	224	1
Total . . .	3247	53

Distribution by Faculties. *Arts*, 1077; *educn.*, 59; *engin. & technol.*, 964; *fine arts*, 91; *oriental studies*, 220; *sci.*, 827. Total: 3247.

Included in the figures above are:—

Pre-University students, 391.

Postgraduate students, 253.

New admissions, 1503.

Students from other countries, 19.

**DEGREES AWARDED** (1958-59). MLitt, 3; MA, 139; BA (hons.), 108; BA, 50; BCom (hons.), 30; BCom, 25; PhD, 8; MSc (res.), 2; MSc (exam.), 18; BSc (hons.), 87; BSc, 58; MOI, 2; BOL, 5; BE, 65; BE(Chem), 20; BEd, 47; BMus, 2.

**DIPLOMAS AWARDED** (1958-59). Teaching, 25; painting, 2. Titles in oriental learning: Pulavar, 29; Sangita Bushana, 6; Siromani, 1.

# BANARAS HINDU UNIVERSITY\*

Founded 1916

Postal Address : Banaras 5, Uttar Pradesh, India

Cables and Telegrams : University, Banaras

Telephone : 4339

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)  
 CHIEF RECTOR—H.E. THE GOVERNOR OF UTTAR PRADESH (*ex officio*)  
 CHANCELLOR—H.H. JAI CHAMRAJA WADIAR, Governor of Mysore  
 PRO-CHANCELLOR—H.H. YUVRAJ KARAN SINGH, Sadar-i-Riyasat, of Jammu and Kashmir  
 VICE-CHANCELLOR—Lt.-Col. N. H. BHAGWATI, MA LLB  
 PRO-VICE-CHANCELLOR—M. C. BIJAWAT, BE Roor., BSc  
 TREASURER—J. B. GUPTA  
 REGISTRAR—Major S. L. DAR, MA LLB  
 LIBRARIAN—P. N. KAULA, MSc  
 DEANS—ARTS—Prof. C. N. MENON, MA PhD DLitt; LAW—Prof. ANANDJI, LLM DCL Yale;  
 MEDICINE AND SURGERY—K. N. UDUPA, MSc Mich., FRCS Can; MUSIC AND FINE ARTS—Miss  
 Prem Lata SHARMA, MA PhD Sangeetalankar; ORIENTAL LEARNING—Pdt. H. B. SHASTRI;  
 SCIENCE—R. L. SINGH, MA PhD Lond.; TECHNOLOGY—Prof. J. SINGH, PhD Wales; THEOLOGY  
 —Pdt. VISHWANATH SHASTRI

## ADMINISTRATIVE AND OTHER STAFF

Provost : Prof. M. Sen Gupta, BSc Calc., BSc(Engin) CPE Glas. Chief Proctor : R. S. Choudhri, MSc PhD Corn., DSc. Senior Wardens of Hostels : Ruiya, Dr. S. P. Sen; Birla, Umesh Prasad, MA PhD; Broacha and Dr. C. P. Ramaswamy Aiyar, Y. S. R. K. Sarma, MSc; Dr. Radha Krishnan, K. Kumar, MSc; Dr. Bhagwan Das, O. P. C. Gupta, BSc BT MED; Dr. I. N. Gurtu, K. N. Nayak, LLM; Morvi, P. Sen, MSc PhD; Dhanrajgiri, Dr. R. Kumar; Rajputana and Limbdi, S. L. Jain, BSc(Engg) MS Harv.; Dr. S. C. De, C. R. K. Rao, BSc BE; King Edward, Annie Besant and Hostel No. 1, D. P. N. Singh, MCom MA LLB PhD; Women's (Old and New), Dr. M. Shakuntla, MSc PhD; Approved Lodges, R. N. Desai, MSc Mich., PhD Minn. Chief Med. Officer : G. S. Singh, MB BS; Med. Officers : R. M. Singh, B. K. Prasad, MB BS. Manager, Univ. Press : Lakshmi Das. Executive Engineer : B. Gupta, CE Roor. Executive Officer : M. Prasad, BA Dipl Local Self-Government Admin. Alld.; Controller of Exams. : U. V. Bhatt, PhD Sheff., BSc(Met); Dep. Registrar (Acad.) : K. N. Lal, DSc; Dep. Registrar (Admin.) : R. N. Vyas, BCom. Accts. Officer : Ram Bahadur Khare, BSc; Asst. Accts. Officer : J. D. Sanwal; Special Officer : D. C. R. Bardhan, MA. Asst. Registrar (Acad.) : V. L. Nighoskar, BSc; Asst. Registrar (Admin.) : S. Somaskandon, MA; Purchase Officer : P. C. Menon, BA; Officer on Special Duty (PWD) : M. L. Singhal. Executive Engineer II : M. R. Komal. Internal Audit Officer : M. S. Kapoor. Dean of Students : S. C. Das Gupta, MA; Dean of Students (Kamachcha) : D. N. Chakravarty, DSc; Asst. Dean for Women Students : Miss Padma Misra, MA, Acharya, LT. Information and Pub. Relations Officer : S. P. Tripathi, BA.

## CONSTITUENT COLLEGES OF THE UNIVERSITY§

[IA, BA, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, BA, etc.]

BHARATI MAHAVIDYALAYA (COLLEGE OF INDOLOGY) (tel. : 4382). 13 Teachers. MA; PhD; DLitt; dipl. in Indian philos. & culture. Hds. of Depts. : ANC. INDIAN HIST., CULTURE, AND ARCHÆOL.—Actg. Principal A. K. Narain, MA PhD; ART AND ARCHIT.—V. S. Agrawala, MA PhD DLitt; SANSKRIT AND PALI—Principal S. Kant, DPhil Oxon., MA PhD; INDO-SUMERIAN STUDIES—.....; INDIAN PHILOS. AND RELIGION—N. K. Devraja, MA PhD.

CENTRAL HINDU COLLEGE (tel. : 2878). 89

\* Member of the Association of Universities of the British Commonwealth

§ Postal Address, unless otherwise stated : Banaras Hindu University, Banaras 5, Uttar Pradesh, India

Teachers. BA; BCom; MA; MCom; PhD; DLitt; dipls. in German, French, Hindi, Chinese, clin. psychol.; cert. in statistical method. Hds. of Depts.: PHILOS.—Principal T. R. V. Murti, MA DLitt; HIST.—R. S. Tripathi, MA PhD Lond.; ENGL.—C. N. Menon, MA PhD DLitt; POL.—K. L. Verma, MA; MATHS.—Brij Mohan, MA DSc; ECON.—A. S. Raturi, MA DPhil *Alld.*, PhD *Harv.* (Actg.); HINDI—J. P. Sharma, MA DLitt (Actg.); GEOG.—R. L. Singh, MA PhD Lond.; COMM.—S. K. R. Bhandari, MCom LLB PhD *Luck.*; PERSIAN AND ARABIC—PSYCHOL.—

CENTRAL HINDU COLLEGE (KAMACHHA SECTION) (*Postal Address*: Kamachha, Banaras, India; tel.: 3528). 53 Teachers. IA; ISc; ICom. Pre-Univ. courses in arts and sci.; pre-professional courses in agric. and med.; 1st yr. of integrated course in technol. Principal—D. N. Chakravorty, DSc.

COLLEGE OF AGRICULTURE (tel.: 2838). 25 Teachers. BSc(Ag); MSc(Ag); PhD; DSc. Principal—J. Singh, PhD *Wales*.

COLLEGE OF MEDICAL SCIENCES. 38 Teachers. ABMS; MB BS. Hds. of Depts.: AYURVEDA—Pdt. R. Dutt Shastri, Ayurveda Shastracharya; SURG.—Principal K. N. Udupa, MSc *Mich.*, FRCSCan.

COLLEGE OF MINING AND METALLURGY (tel.: 2627). 29 Teachers. BSc(Min); BSc(Met); BSc(Fuel); MSc(Min); MSc(Met); PhD; DSc. Hds. of Depts.: METALL.—Principal D. Swarup, BSc(Met) PhD *Sheff.*; MINING—Prof. M. P. Netarwala, BScMin MSc(Geol) MEM *Colorado*, ScD *M.I.T.*

COLLEGE OF SCIENCE (tel.: 2876). 98 Teachers. BSc; MSc; PhD; DSc; dipl in spectroscopy. Hds. of Depts.: CHEM.—G. B. Singh, MSc MA PhD *Harv.*; PHYS.—A. R. Varma, MSc PhD Lond.; MATHS.—Brij Mohan, MA DSc (Actg.); BOT.—R. N. Singh, DSc, FNI; ZOOL.—J. P. Thapliyal, MSc PhD; GEOL.—Principal R. Nath, DIC, MSc PhD Lond.; GEOG.—R. L. Singh, MA PhD Lond.; SPECTROSCOPY—N. L. Singh, DSc.

COLLEGE OF TECHNOLOGY (tel.: 2949). 35 Teachers. MSc(IndChem); BSc(ChemEng); BPharm; MPharm; MSc(Glass); MSc(Cer); PhD; DSc. Hds. of Depts.: CHEM. ENGIN. AND TECHNOL.—S. P. Pathak, MSc PhD *Liv.*, PHARMACEUTICS—Principal N. K. Basu, MSc DPhil; SILICATE TECHNOL.—H. N. Roy, Cert Engin *Alfred* (Actg.).

ENGINEERING COLLEGE (tel.: 2938). 46 Teachers. BSc(Eng) in electr., mech., civil & municipal engin.; MSc(Eng) in electr. machine design; PhD; DSc. Hds. of Depts.: ELECTR. ENGIN.—Principal M. Sen Gupta, BSc *Calcutta*, BSc(Eng) CPE *Glas.*; MECH. ENGIN.—Prof. B. M. Singh, BSc(Eng); CIVIL AND MUNICIPAL ENGIN.—Prof. S. S. Gairola, BSc(Eng) MSinCE *Tennessee*.

KALA SANGITA BHARATI (COLLEGE OF MUSIC AND FINE ARTS). 15 Teachers. Adm. cert. in music; dipl. in music; BMus; MMus; DMus; BTM; dipls. (jr. and sr.) in painting and sculpture. Actg. Principal—Miss Prem Lata Sharma, MA PhD Sangeetalanakar.

LAW COLLEGE. 9 Teachers. LLB; LLM. Principal—Anandji, LLM DCL *Yale*.

SANSKRIT MAHAVIDYALAYA (COLLEGE OF ORIENTAL LEARNING AND THEOLOGY). 30 Teachers. Madhyama; Shastri; Acharya; Chakravarty; Vachaspati; dipl. in Pauruhitya Ratna. Principal—Vishwanath Shastri (Actg.). Hds. of Depts.: SAHITYA AND VYAKARANA—Pdt. H. B. Shastri (Actg.); DARSHAN—Pdt. H. B. Shastri; THEOL.—Pdt. R. N. Dikshit; JYOTISH—Pdt. H. B. Shastri; MIMANSA AND DHARMA SHASTRA—Pdt. V. Shastri.

TEACHERS' TRAINING COLLEGE (tel.: 2982). 17 Teachers. BEd; MEd; PhD; DLitt. Principal—P. N. Rozdon, BA PhD *Edin.*

WOMEN'S COLLEGE (tel.: 2806). 38 Teachers. Pre-univ. courses in arts and sci.; IA; ISc; BA. Principal—Miss P. C. Dharma, MA LT DLitt.

## AFFILIATED LOCAL COLLEGES\*

ARYA MAHILA DEGREE COLLEGE. 9 Teachers. BA. Principal—S. B. Pai, MA BT.

BESANT COLLEGE (tel.: 2717). 14 Teachers. IA; ISc. Principal—J. P. Srivastava, BSc BT.

D.A.V. COLLEGE (tel.: 4058). 16 Teachers. IA; ICom; BA; BCom. Principal—Krishnanand, MA.

HARISH CHANDRA COLLEGE (tel.: 2831). 20 Teachers. BA; BCom; LLB. Principal—Rai

Govind Chand, MA PhD.

UDAI PRATAP COLLEGE (tel.: 4119). 27 Teachers. BA; BCom; BSc. Principal—S. B. Singh, MSc PhD *Camb.*

VASANTA COLLEGE FOR WOMEN (tel.: 2256). 11 Teachers. BA. Principal—Miss Subhada Telang, MA.

VASANT KANYA MAHAVIDYALAYA. 12 Teachers. BA. Principal—Leela Sharma, MA.

## GENERAL INFORMATION

The univ. is open to persons of either sex and of any race, creed, caste or class. It was incorporated in 1915; the Central Hindu Coll., fully

equipped, already existed, and the work of the univ. began in 1916. The univ. has since been removed to a magnificent site of 1300 acres.

\* *Postal Address*: Banaras, Uttar Pradesh, India

The objects of the univ., which is teaching and residential, are to promote the study of the Hindu Shastras and of Sanskrit lit. generally as a means of preserving and popularizing the best thought and culture of the Hindus, to promote learning and res. in arts and sci. in all branches, and to advance professional knowledge, as is best calculated to help in promoting indigenous industries and in developing the material resources of the country.

**CONSTITUTION.** The court, the advisory body of the univ., includes *ex-officio* members, persons nominated by the visitor, members of parliament nominated by the speaker of the House of the People and by the chairman of the council of states, and men of standing in public life nominated by the visitor. The academic council, the supreme academic body, includes the vice-chancellor, pro-vice-chancellor, principals of colls. and hds. of teaching depts., 4 profs. who are not hds. of teaching depts., deans of facs., the provost, chief proctor, librarian, 4 teachers of the univ. elected from among themselves, and 6 persons, not employees of the univ., co-opted by the academic council. The executive council and the standing cttee. of the academic council are the executive bodies of the univ. and the academic council respectively.

**LIBRARY.** 282,006 vols., housed in the Sayaji Rao Gaikwad library.

**LABORATORIES, ETC.** Chem., phys., bot., zool., geol., geog., geophys., spectroscopy, statistics, psychol., agric., silicate technol., pharmaceuticals, mining, metall. and fuel technol., indust. chem., glass, ceramics, chem. engin., radio-communication, electr., mech., civil and municipal engin. An automobile repair-shop and a power-house are also attached to the Engineering Coll.

An extensive botanical garden, an Ayurvedic garden and agric. farms are maintained for the study of plants, herbs and crops.

**ADMISSION.** Candidates who have passed the admission exam. or an equivalent exam. are admitted to pre-univ. courses in arts and sci.

For admission to pt. I of the 3-yr. BA and BCom courses, candidates must have passed pre-univ. exam. in arts/sci. of this univ. or equivalent exams.; for admission to pt. I of the 3-yr. BSc course, candidates must have passed pre-univ. exam. in sci. of this univ. or equivalent exams.; pt. II of BA, BCom and BSc courses is open to candidates who have passed pt. I BA, BCom and BSc or IA, ICom and ISc exams. of this univ. or equivalent exams.; for admission to courses of MA, MCom and MSc, candidates must have passed BA, BCom and BSc exams. of this or other recog. univs.; for admission to LLB and BEd, min. qualifs. are BA, BSc and BCom; no candidate can be admitted to courses of LLM and MED unless he has passed LLB and BEd exams. Admission to 1st yr. of integrated courses in technol. and bachelor degrees in engin., mining, metall., pharm. is open to candidates who have passed pre-univ. exam. in sci. of this univ. or equivalent

exams.; for admission to 2nd yr. of integrated courses in technol., min. qualifs. are 1st-yr. exam. of 5-yr. integrated course in technol., or pre-engin. or pre-professional exams. in technol. or engin., or ISc, or BSc pt. I of 3-yr. degree course or equivalent exams.; for admission to postgrad. courses in engin., mining, metall., pharm., min. qualifs. are BSc(Engg), BSc(Min), BSc(Metall), BPharm of this or other recog. univs. Candidates seeking admission to pt. I of integrated courses in agric. must have passed pre-univ. exam. in sci. of this univ. or equivalent exams.; pt. II exam. in agric. open to candidates who have passed ISc of this univ. or equivalent exams. and have studied subjs. prescribed for pt. II exam. for at least 1 yr. at this univ., open also to those who have passed pt. I exam. of integrated courses in agric.; MSc (Agric) open to candidates who have obtained BSc(Ag) of this univ. or equivalent. For admission to pre-professional course in med., candidates must have passed pre-univ. exam. in sci. of this univ. or equivalent exams.; for admission to course leading to MB BS, min. qualifs. are ISc or pre-professional (med.) exams. of this univ. or equivalent exams. Admission to courses of Sansk. studies in the facs. of oriental learning and theol. is restricted to Hindus; candidates who have passed the Praveshika in Sansk. or an equivalent exam. are admitted to the course of Madhyama Pariksha; for higher degrees in Sansk., students are required to pass successive exams. of Sansk. learning, Madhyama, Shastri, Acharya and Chakravarty. Min. qualif. for admission to course for cert. in music is matric. or equivalent and/or aptitude for music; for admission to courses of dipl. in music, BMus, MMus, DMus, BTM, in the fac. of music and fine arts, min. qualifs. are cert. in music, dipl. in music, BMus, MMus, BMus, respectively or equivalent qualifs.

**FIRST DEGREES.** 1 yr.—BTM, pre-univ. courses in arts and sci., pre-professional course in med.; 2 yrs. after inter. or 3 yrs. after pre-univ.—BA, BSc, BCom; 2 yrs.—BMus; 3 yrs.—BSc (Ag), BPharm; 4 yrs.—BSc(Min), BSc(Metall), BSc(SilicateTech), BSc(ChemEngin); 5 yrs.—BSc(Eng), AB MS; 6 yrs.—MB BS.

**ORIENTAL TITLES.** Chakravarty, 2 yrs.; Shastri, Acharya, Karma Kand Shastri, 3 yrs.; Vachaspati.

**HIGHER DEGREES.** 1 yr.—1st-yr. integrated course in tech., pt. I of integrated course in agric., BEd, MEd (after BEd), MSc(Cer), LLM (after LLB); 1½ yrs.—MSc(Eng) in electr. machine design; 1½ yrs.—MPharm, MSc(Min), MSc(Met); 2 yrs.—LLB, MA, MSc, MSc(Ag), MSc(IndChem), MCom, MMus, DMus, PhD; DLitt, DSc.

**DIPLOMAS.** Paurohitya Ratna, 3 yrs.; mod. European langs., music, painting, sculpture, Chinese, Indian philos. & culture, 2 yrs.; clin. psychol., library sci., spectroscopy, Hindi, 1 yr.

**CERTIFICATES.** (Usually 1-yr. course.) Statistical methods, Bengali, Tamil, Telugu, Gujarati.

**FEES.** For dipl. courses (p.a.) : Hindi, Rs. 10 ; German, French, Chinese, Rs. 20 ; painting, sculpture, Rs. 72 ; clin. psychol., Rs. 80 ; spectroscopy, Rs. 60 ; for cert. courses : Bengali, Tamil, Telugu and Gujarati, Rs. 10 ; statistical methods, Rs. 20.

Fees (p.a.) for IA, ICom, Rs. 80 ; 2-yr. BA and BCom, Rs. 110 ; pre-univ. arts and sci., Rs. 80 each ; 3-yr. BA, BSc and BCom (pts. I, II and III), Rs. 120 each ; MA and MCom, Rs. 140 ; ISc, Rs. 80 ; 2-yr. BSc, Rs. 120 ; MSc, Rs. 145 ; Res., Rs. 125 ; 1st-yr. integrated course in tech., Rs. 120 ; ISc(Eng), Rs. 230 ; BSc(Eng), Rs. 250 ; ISc(Mining), Rs. 220 ; BSc(Min) and BSc (Metall), Rs. 240 ; Law (previous), Rs. 120 ; Law (final), Rs. 120 ; LL.M, Rs. 150 ; pre-professional course in tech., Rs. 230 ; 3rd, 4th and 5th yrs. of integrated courses in electr., mech. and civil engin., Rs. 230 each ; 3rd, 4th and 5th yrs. of integrated courses in min. and metall., Rs. 230 each ; 3rd, 4th and 5th yrs. of integrated courses in chem. engin., Rs. 230 each ; 2nd, 3rd and 4th yrs. of integrated courses in pharm., Rs. 230 each ; pre-professional course in med., Rs. 120 ; MB BS, pts. I, II and II, Rs. 200 each ; 1st professional Ayurveda, Rs. 100 ; 2nd professional, Rs. 100 ; 3rd professional, Rs. 100 ; pt. I of integrated course in agric., Rs. 120 ; BSc(Ag), Rs. 180 ; MSc(Ag), Rs. 220 ; MSc (Glass, Ceramics, Ind. Chem.), Rs. 200 ; BPharm, Rs. 180 ; MPharm, Rs. 260 ; BSc(Silicate Tech), BSc(ChemEng) pts. I and II, Rs. 220 each ; BSc(SilicateTech), BSc(ChemEng) pts. III and IV, Rs. 240 each ; BEd, Rs. 150 ; MEd, Rs. 200 ; Adm. cert. in music, Rs. 24 ; dipl. in music, Rs. 64 ; BMus, Rs. 96 ; MMus, Rs. 120 ; fine arts section, Rs. 72 ; library dipl., Rs. 90.

In the Sanskrit Mahavidyalaya no hostel or coll. fee is charged.

**ACADEMIC YEAR.** July to April, 3 terms. Term dates (approx.) : July 9 to Oct. 6 ; Nov. 5 to Dec. 24 ; Jan. 2 to April 30.

**USUAL LANGUAGES OF INSTRUCTION.** Hindi and Engl. ; in some classes, Engl. only ; in oriental studies, Hindi and Sansk.

**RESIDENCE AND COST OF LIVING.** Each student must reside in a univ. hostel, or, if he is a student of a constituent coll., in a coll. hostel, unless allowed by the vice-chancellor or the pro-vice-chancellor to reside with his parents or guardians under prescribed conditions. Most students live in hostels under the supervision of the senior wardens and wardens. There are 14 hostels on the univ. grounds, accommodating over 3000 students, and 3 more in the city, accommodating nearly 350 students, all under the management of a warden, senior wardens, the provost and the Dean of students. There are qualified med. officers. There are in addn. about 7 approved lodges, in which nearly 500 students reside ; all approved lodges are also under the management of wardens and a senior warden. The cost of living, incl. tuition fees, varies from Rs. 70 to Rs. 125 per month, according to fac. Students of the Coll. of Oriental Learning and Theol. are charged no fees for lodging, light and service.

**INTERNATIONAL HOUSE.** Bungalow for foreign students. Warden : R. S. Choudhuri, MSc PhD *Corn.*, DSc.

**INFORMATION BUREAU.** Assists students from India and abroad with information about admission to the constituent colls. and hostels of the univ. and about educnl. facilities available in the univ.

**ATHLETIC ACTIVITIES.** The univ. athletic assocn. organizes univ. games and sports. Inter-coll. games and univ. sports are arranged every yr. Individual colls. through their athletic assocns. provide facilities for all outdoor games and hostels organize all indoor games. P.T. compulsory for pt. I of 3-yr BA, BSc and BCom courses.

**MILITARY TRAINING.** Facilities are available in the 2nd U.P. bn. of the N.C.C. attached to the univ.

**PUBLICATIONS.** *Prospectuses* (annual) of exams. in the various facs., *Annual Reports*, *Scientific Res. Journal* (quarterly), *Univ. Magazine* (quarterly), *Calendar*. The latest *Calendar* is dated 1958.

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	7291	—
Women . . .	822	—
Total . . .	8113	—

**Distribution by Faculties.** Arts, 3460 ; law, 314 ; med. & surg., 279 ; music & fine arts, 222 ; oriental learning, 173 ; sci., 1989 ; technol., 1658 ; theol., 18. Total : 8113.

*Included in the figures above are :—*

Intermediate students, 829.

Postgraduate students, 1344.

New admissions, 2905.

Students from other countries, 54. (Country

from which largest number came : Nepal, 44).

**DEGREES AWARDED (1959).** BA, 1077 ; MA, 785 ; BEd, 95 ; MEd, 11 ; BSc, 261 ; MSc, 144 ; BCom, 255 ; MCom, 46 ; BSc(IndChem), 3 ; MSc(IndChem), 30 ; BSc(ChemEngg), 40 ; BPharm, 15 ; MPharm, 9 ; BSc(Glass&Cer), 3 ; MSc(Glass), 2 ; MSc(Cer), 5 ; BSc(Ag), 60 ; MSc(Ag), 28 ; BSc(Min), 15 ; BSc(Met), 37 ; BSc(FuelTech), 1 ; BSc(ElectEngg), 23 ; BSc (MechEngg), 50 ; BSc(Civil&MuniEngg), 44 ; ABMS, 35 ; LLB, 138 ; BMus, 6 ; MMus, 1 ; PhD, 25 ; DSc, 1.

**ORIENTAL TITLES AWARDED (1959).** Shastri, 11 ; Sampurna Shastri, nil ; Karma Kand Shastri, nil ; Acharya, 13 ; Chakravarty, nil.

# MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA\*

Founded 1949

*Postal Address* : Baroda 2, Gujarat State, India

*Cables and Telegrams* : University, Baroda

*Telephones* : Registrar, 2721 ; General, 2238, 2442

CHANCELLOR—HIS HIGHNESS THE MAHARAJA GAEKWAR OF BARODA

VICE-CHANCELLOR—J. M. MEHTA, MA Oxon., PhD Lond.

PRO-VICE-CHANCELLOR—C. S. PATEL, BA MSc Bom., PhD Leeds

REGISTRAR—B. K. ZUTSHI, MA LLB Luck.

DEPUTY REGISTRAR—B. M. NANAVATY, BA Bom., DED

## TEACHING STAFF

### Accountancy

Chokshi, M. M., BCom, CA  
Gandhi, H. M., MCom  
Dharma, K. M., MA BCom  
Mehta, K. C., BCom, CA

Reader  
Lectr.  
Lectr.  
Lectr.

Gaekwad, L. K., MSc  
Mehta, A. R., MSc  
Deshmukh, Y. S., MSc  
Padate, S. N., MSc

Lectr.  
Lectr.  
Lectr.  
Lectr.

### Applied Arts and Crafts

Pancholi, B. N.  
Patel, H. R.  
Sant, N. K., BA(Fine)  
Joglekar, N. B., AM  
Mehta, N. J.  
Hatgaonkar, P. K.

Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Business Administration

Asthana, G. P., MCom

Reader

### Business Organization

Pandya, R. D., MCom DiplinBanking

Lectr.

### Chemistry

Sethna, S. M., MSc PhD  
Mehta, C. M., MSc PhD  
Dave, J. S., MSc PhD Lond.  
Shah, C. J., MSc  
Shah, M. J., MSc  
Godbole, A. N., MSc  
Lele, S. S., MSc  
Shah, M. M., MSc  
Salvi, N. P., MSc

Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Archæology

Subbarao, B., MA LLB PhD  
Mehta, R. N., MA PhD  
Malik, S. C., DiplinPrehistoricArchæol  
Lond., MSc  
Patel, A. C., MSc  
Eapen, J., MSc  
Bhagwansingh, S., MA

Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.

### Banking

Shah, B. G., MCom

Prof.

### Commerce

Dholakia, H. L., BCom PhD  
Desai, H. B., MCom

Reader  
Lectr.

### Biochemistry

Ramkrishnan, C. V., MSc PhD  
Modi, V. V., MSc PhD Liv.  
Shah, V. K., MSc

Prof.  
Reader  
Lectr.

### Co-operation

Elavia, Mrs. Behroz H., MCom  
Mehta, R. S., MA

Lectr.  
Lectr.

### Botany

Chavan, A. R., BSc PhD Nebraska  
Pathak, C. H., MSc PhD Minn.

Prof.  
Reader

### Cotton Industry

Venkataraman, K. S., MA PhD BL

Reader

Member of the Association of Universities of the British Commonwealth

**Dance**

Khokhar, M. P., BA  
 Tanjorkar, K. A.  
 Katpitia, Miss Nargis, BA MMus

**Dentistry**, see Medicine

**Dramatics**

Mehta, C. C., BA  
 Thakar, J. D., BA  
 Bhatt, R. P., BA  
 Bhatt, M. J., BMus

**Economics**

Gulati, I. S., MA PhD *Lond.*  
 Malkani, H. C., MA  
 Shukla, D. K., MA PhD  
 Chokshi, H. P., MA  
 Majmudar, P. M., MA  
 Rajendrakumar, MA(Econ) *Manc.*  
 Dave, I. S., MA  
 Monga, G. S., MA MSc  
 Kothari, R. F., BSc(Econ) *Lond.*

**Education**

Menon, T. K. N., MA *Leeds*,  
 DipEd *Leeds & Berl.*  
 Lele, T. P., BSc EdB *St.And.*, DipEd  
 Patel, M. S., MA PhD TD *Lond.*  
 Parikh, S. C., BA MED  
 Apte, D. G., MA BT MED  
 Shukla, N. N., BSc MED  
 Das, I. J., MA MED  
 Fernandes, H., BSc MED  
 Amin, Mrs. Mandakini M., MA  
 Med *Ohio*, BT  
 Buch, M. B., BSc MED  
 Thakar, R. S., MED BT  
 Kotwal, Miss S. D., BA MED DGC  
 Shah, M. M., BSc MED

**Educational Administration**

Mukerji, S. N., PhD *Col.*, TD *Lond.*,  
 DipEd *Dub.*, MA BT  
 Desai, D. M., BA PhD  
 Divekar, S. M., BA BT MED  
 Lulla, B. P., MA MCom MED  
 Desai, D. B., BA MED

**English**

Kantak, V. Y., MA  
 Shukla, C. M., BA *Lond.*, MA  
 Tilak, Mrs. Kamala, MA  
 Salgaonkar, V. D., MA LLB  
 Desai, J. D., MA  
 Joshi, Mrs. Sindhu N., MA  
 Raval, R. R., MA  
 Mehta, Miss Nileshvari C., MA  
 Mahulkar, D. D., MA  
 Chopra, Mrs. Kamala, MA  
 Krishnamurthi, M. G., MA  
 Joshi, Mrs. S. N., MA

Reader  
 Lectr.  
 Lectr.

Patel, P. G., MA  
 Sheshadri, C. K., MA  
 Bhatt, S. N., BA LLB

Lectr.  
 Lectr.  
 Lectr.

**Fine Arts**

Doring, H. K. Hon. Prof.  
 Chaudhary, N. N., BA DipinArt  
 (Sculpture) Prof.  
 (Painting) Prof.  
 Bendre, N. S., BA (Sculpture) Lectr.  
 Kapadia, K. B. (Sculpture) Lectr.  
 Barua, B. K., DiplinPottery (Sculpture) Lectr.  
 Bhatt, G. K. (Process) Lectr.  
 Pandya, R. M. (Painting) Lectr.  
 Katpitia, F. N., MA(Fine) (Painting) Lectr.  
 Bhatt, J. M. (Painting) Lectr.  
 Pandya, M. D., BA(Fine) (Stone Carving) Lectr.

**Geography**

Janaki, Mrs. Vengalil A., MA BLitt *Oxon.* Reader  
 Gupta, C. M., MA MED Lectr.  
 Gollarkeri, R. S., MA Lectr.  
 Mishra, B. R., MSc Lectr.  
 Ghia, M. C., MSc Lectr.  
 Dixit, K. R., MA Lectr.

**Geology**

Mehr, S. S., MSc Lectr.  
 Desai, S. D., MSc Lectr.  
 Majmudar, H. H., MSc Lectr.  
 Malpathak, G. T., MSc Lectr.

**Gujarati**

Sandesara, B. J., MA PhD Prof.  
 Patel, R. N., MA BT PhD Reader  
 Dave, I. A., MA Lectr.  
 Joshi, S. H., MA Lectr.  
 Tripathi, Y. J., MA BT PhD Lectr.  
 Trivedi, H. M., MA Lectr.

**Hindi**

Singh, C. P., MA Prof.  
 Sinha, B. L., MA LLB BT Lectr.  
 Nagar, A. S., MA PhD Lectr.  
 Gupta, M. G., MA Lectr.

**History**

Misra, S. C., MA PhD Reader  
 Krishnamurti, R., MA Lectr.  
 Chavada, V. K., MA PhD Lectr.  
 Shah, M. M., MA BT Lectr.  
 Bapat, M. K., MA Lectr.

**Home Science**, see below

**Law**

Dhilikic, H. C., MA LLM *Corn.* Reader  
 Panelya, A. J., MA LLB Lectr.

**Linguistics**

Kalelkar, N. G., MA DLitt *Paris* Lectr.

**Marathi**

Dandekar, V. P., MA PhD  
Deshpande, S. V., MA

**Mathematics**

Singh, U. N., DPhil *Alld.*, DSc *Paris*  
Manerikar, S. D., BA *Camb.*  
Cholkar, V. B., MSc  
Shah, C. C., MSc  
Patel, R. C., MSc  
Sheth, N. T., MA  
Patel, N. M., MSc  
Shah, V. M., MSc  
Deodhar, M. M., MSc  
Desai, K. L., MSc  
Patel, N. J., BSc  
Rao, V. V., MA PhD  
Dave, K. M., MSc  
Yadav, B. S., MSc  
Harishanker, MA  
Mayor, Mrs. Vinodini, BA

**Medicine**, see below**Museology**

Devkar, V. L., MSc  
Bedekar, V. H., MA DiplMuseol  
Nair, S. M., MSc DiplMuseol

Hon. Lectr.  
Lectr.  
Lectr.

**Music**

Mehta, R. C., BA  
Shukla, S. O.  
Thakkar, M. M., DiplinMusic

Prof.  
Reader  
Lectr.

**Oriental Studies**

Sandesara, B. J., MA PhD Dir., Oriental Inst.  
Shah, U. P., MA PhD DiplinMus Dep. Dir.  
Pade, J. S., MA Res. Officer  
Nambiar, M. R. Res. Officer  
Thakkar, J. P., MA Res. Officer  
Parikh, S. D., MA MED Res. Officer  
Shanbhogue, B. L. Res. Officer  
Bhatt, B. N., MA Supt., Collation Section  
Desai, H. T., MA MED  
Supt., Critical Apparatus, Ramayan Dept.  
Shastri, T. R. V. Ramayan Asst.  
Trivedi, V. P., BA(Fine) Artist, Ramayan Dept.

**Pali**

Joshi, V. R., MA BT

Lectr.

**Persian**

Lokhandwala, M. F., MA  
Rehman, M. L., MA BL

Lectr.  
Lectr.

**Philosophy**

Javadekar, A. G., MA PhD  
Divetia, Miss Sunayana H., MA *Camb.*  
& *Bda.*  
Harihar Prapanna, MA

Reader  
Reader  
Lectr.

**Physics and Meteorology**

Lectr. Gogate, D. V., MSc PhD *Lond.*  
Lectr. Pandya, N. S., MSc PhD *Lond.*  
Chaudhari, K. R., MSc *Alig.*  
Shah, C. N., BSc  
Desai, H. S., MSc  
Shah, S. G., MSc  
Nerurkar, A. P., MSc  
Pethe, G. V., MSc  
Desai, G. S., MSc  
Trivedi, G. K., MSc  
Joshi, R. V., MSc  
Mathrubhuteswaran, V. R., MSc

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Politics**

Somji, A. H., MA PhD *Lond.*  
Desai, K. S., MA LLB  
Bhalerao, C. N., MA  
Shah, P. J., MA

Reader  
Lectr.  
Lectr.  
Lectr.

**Psychology**

Bhatt, L. J., MA *Leeds & Bda.*, BT  
Patel, A. S., MS(Ed) MS(Psy) *Wis.*, MA  
BT MEd PhD  
Pathak, Mrs. Pramila T., BA BT MED  
PhD  
Warty, Mrs. M. S., MA

Reader  
Reader  
Reader  
Lectr.

**Sanskrit**

Bhave, S. S., MA LLB PhD *Bonn* Reader  
Mehta, H. C., MA BT  
Principal, Baroda Sanskrit Mahavidyalaya  
Jani, A. N., MA PhD Lectr.  
Nachane, Miss Sulochana A., MA PhD Lectr.  
Kantawala, S. G., MA PhD Lectr.

**Social Work**

T'ayal, Mrs. Indra S., BS MSc *Oklahoma*,  
MSW *Mich.* Reader  
Dadlani, G. G., BA MSW MSc Reader  
Telang, V. S., MA MSW Lectr.  
Patel, Miss I. M., BA MSW Lectr.  
Ramdev, S. R., BA MSW Lectr.  
Yardi, S. R., MA LLB MSW Lectr.  
Motwani, J. K., MA MSW Lectr.  
Patel, Miss J. P., BA MSW Lectr.  
Muddaliar, N. S., BSc MSW Lectr.  
Majmudar, S. K., BSc MSW Lectr.  
Dhawan, Mrs. S., BA MSW Lectr.  
Duble, Miss Shankuntla, MA DMP Lectr.

**Sociology**

Desai, I. P., MA PhD Prof.  
Panchandikar, Mrs. Jaloo P., MA PhD Reader  
Panchandikar, K. C., MA PhD Reader  
Sheth, N. R., MA Lectr.  
Shah, A. M., MA Lectr.  
Unni, K. R., MA Lectr.  
Sheth, T. N., MA Lectr.

**Zoology**

George, J. C., BSc PhD

Prof.



Shah, R. V., MSc PhD  
 Rande, V. D., MSc  
 Jyoti, Dolly, MSc PhD  
 Shah, V. C., MS *Minn.*, MSc  
 Talesara, C. L., MSc

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

Patel, V. G., MD  
 Hon. Asst. Obstetrician & Gynæcologist  
 Pandit, Mrs. Sindhu R., MD  
 Hon. Asst. Obstetrician & Gynæcologist

## HOME SCIENCE

### Child Development

Varma, Mrs. Amita, B., MA(Educn) *Mich.*

Reader

Mukerji, Mrs. Renuka S., MA *Col.*

Lectr.

Pandit, Miss S., BA DiplinHSc DiplinTT

Lectr.

Randive, Miss K. J., BA MSW

Lectr.

Shah, Miss K. A., BSc(Home)

Lectr.

Chhaya, Miss D. D., BSc(Home)

Lectr.

### Foods and Nutrition

Singh, Miss Justina, MSc *Oregon & Kansas* Prof.

### Home Science Education

Chari, Miss Padma S., MS *Drexel*, BA  
 BT

Reader

Gore, U. R., MSc *Ohio*

Lectr.

Christie, Henrietta, BSc(Home) *Delhi*,  
 BA MSc

Lectr.

## MEDICINE

### Anæsthesia

Parulekar, R. P., MB BS DA

Anæsthetist

### Anatomy

Dass, H. N., MB BS *Rangoon*

Prof.

Varde, Miss Malini R., MSc PhD

Lectr.

Misra, B. D., MS

Lectr.

Gupte, P. S., BSc MB BS

Lectr.

Nabuti, G. R., MS

Lectr.

### Dentistry

Diwanji, R. C.

Hon. Dent. Surg.

Dave, H. J., BDS

Hon. Asst. Dent. Surg.

### Medicine

Ambegaonkar, S. D., MRCP

Hon. Physician

Luhar, P. M., MRCP

Hon. Physician

Munshi, C. P., MD

Hon. Physician

Shah, C. P., MD

Hon. Asst. Physician

Patel, M. V., BSc MD

Hon. Asst. Physician

Vaidya, P. M., MD

Hon. Asst. Physician

### Mental Diseases

Mukerji, A. N., MB MSc

Supt., Mental Hosp., Baroda

### Obstetrics and Gynæcology

Patel, T. V., MD

Hon. Obstetrician & Gynæcologist

Pandit, R. D., MD DGO

Hon. Asst. Obstetrician & Gynæcologist

### Ophthalmology

Shah, V. M., MBBS DO Hon. Ophthalmic Surg.

Sudhalkar, M. S., MB BS DO

Hon. Asst. Ophthalmic Surg.

Desai, V. K., MB BS DO

Refractionist

### Orthopædics

Merchant, G. V., MS

Orthopædic Surg.

### Pædiatrics

Shah, S. H., DTM&H *Lond.* Hon. Pædiatrician

Shah, J. M., DCII MB BS Hon. Pædiatrician

### Pathology

Saiyed, B. A., MD

Prof.

Sahgal, K. N., MD

Lectr.

Jalihal, S. V., MB BS

Lectr.

Parikh, N. B., MB BS

Lectr.

Shukla, R. N., DipBact *Manc.*, MB

Lectr.

Amin, S. P., MB BS

Lectr.

### Pharmacology

Gailonde, B. B., MD

Prof.

Gulati, O. D., MD

Lectr.

Saluhke, D. S., MB BS

Lectr.

Sharma, M. L., MB BS MSc

(Pharm.) Lectr.

Gokhle, S. D., MD

Lectr.

### Physiology

Pathak, J. D., BSc MD

Prof.

Pai, M. L., MSc PhD

Lectr.

Ketkar, A. L., MB BS MSc(Med)

Lectr.

Chakravarti, B. P., MSc(Phy) MSc(Bio)

Lectr.

### Preventive and Social Medicine

Niyogi, A. K., DPH DTH *Edin.*, MB BS

Prof

Trivedi, S. R., MB BS

Lectr.

### Radiology

Gandhi, A. M., DMRT *Lond.*, MB BS

Hon. Radiologist

Trivedi, U. S., DMRT *Lond.*

Med. Officer

### Skin and Venereal Diseases

Verma, B. S., DV&D DDV *Bom.*, MB BS

Med. Officer

### Surgery

Derai, N. R., FRCS

Prof.

Patel, M. A., MD, FRCS, FRFPGlas

Hon. Surg.

Kothari, A. B., MS, FRFPGlas

Hon. Surg.

Desai, R. C., MS

Hon. Surg.

Patel, M. D., MS

Hon. Asst. Surg.

Patel, M. S., MS

Hon. Asst. Surg.

Patel, B. C., MS

Hon. Asst. Surg.

Lectr.  
Lectr.  
Lectr.  
Lectr.

Roy, S. K., BSc(Eng)	Prof.
Advani, R. C., BScTech <i>Manc.</i> , BSc <i>Bom.</i>	Prof.
Thakore, K. K., BSc BSc(Eng)	Reader
Shah, K. D., BE(Elec)	Reader
Makhijani, D. P., BE(Elec)	Lectr.
Panchal, M. R., DEE	Lectr.
Patel, S. I., BE(Elec&Mech)	Lectr.
Derasari, J. R., BE(Elec&Mech)	
MSc(Elec&Mech)	Lectr.
Moorthy, M. K. S., BE(Elec)	Lectr.
Desai, C. P., BE(Elec)	Lectr.
Amin, C. M., DEE	Lectr.

Shah, L. B., MSc(Tech) <i>Manc.</i> , BSc(Eng)	Prof.
Shah, J. M., BE(Mech&Elec)	Prof.
Joshi, T. N., BSc(Eng)	Reader
Patel, R. C., BE(Mech&Elec)	Lectr.
Patel, B. M., DME	Lectr.
Dave, B. E., DME	Lectr.
Shah, K. S., BE(Elec&Mech)	Lectr.
Karamchandani, C. J., DME	Lectr.
Raghavachar, T. S., BE(Mech)	Lectr.
Kardile, Y. K., BE(Mech&Elec)	Lectr.
Patel, S. I., DME	Lectr.
Dave, B. G., DME	Lectr.
Lodhawala, P. M., DME DEE	Lectr.
Shah, R. T., BE(Mech) DrIng	Lectr.
Pandya, A. D., BE(Mech)	Lectr.
Mehta, S. K., BE(Elec&Mech)	Lectr.
Sheth, S. C.	Lectr.
Sathe, V. N., DME	Lectr.

Khadilkar, C. H., BE(Civil)	Prof.
Patel, O. H., MS Iowa, BE(Civil)	Prof.
Shah, N. A., BE(Civil)	Reader
Dave, R. N., BE(Civil)	Lectr.
Ganuchandani, B. P., BE(Civil)	Lectr.
Subramanyam, B. V., BE	Lectr.
Shah, N. C., BE(Civil)	Lectr.
Nanavaty, B. B., BE(Civil)	Lectr.
Shah, C. K., BE(Civil)	Lectr.
Bhagia, G. I., DCE	Lectr.

Residence : C. M. Shukla, L. J. Bhatt, K. S. Yajnik, H. C. Dholakia, O. D. Gulati, Mrs. DeCruze, Mrs. P. G. Pandya, C. M. Patel. Supt., Chetan Balwadi : Mrs. Amita B. Varma. Hon. Med. Officer : G. S. Apte, MB BS *Bom.* ; Hon. Med. Officer for Women : Mrs. Sulochana Shah, MB BS *Bom.* Librarian, Univ. Library : C. P. Shukla, PhD *Mich.*, MA BT. Principal, Univ. Experimental Sch. : G. P. Bhatt, BA BT MED. Manager, M.S. Univ. Press : R. J. Patel, BA.

POLYTECHNIC, Baroda (tel. : 3005). Principal  
—C. H. Khadilkar, BE(Civil).

## RECOGNIZED INSTITUTION

BARODA MUSEUM AND PICTURE GALLERY, Sayaji Park, Baroda (tel.: 2505).  
Offg. Dir.—V. L. Devkar, MSc.

## GENERAL INFORMATION

The idea of establishing a univ. at Baroda had engaged the attention of the govt. of the former state of Baroda as far back as 1908, and in 1927 the Baroda univ. commission apptd. by the govt. of Baroda submitted a report making a strong case for immediate establ. of a univ. Circumstances, however, did not permit this. In 1949 another cttee., consisting of eminent educationists apptd. by the govt. of Baroda, recommended the establ. of a residential univ. The univ. was establ. in April 1949 under the Maharaja Sayajirao University of Baroda Act. It is a unitary, teaching and residential univ.

**CONSTITUTION.** His Highness the Maharaja of Baroda is chancellor of the univ. The vice-chancellor is the principal executive and academic officer and is asstd. by a pro-vice-chancellor or rector. The vice-chancellor and pro-vice-chancellor or rector are elected by the senate from amongst the names of panels submitted by the syndicate. The senate is the supreme governing body and authority of the univ. and the syndicate its executive authority. Among the other authorities are the council of postgraduate studies and res. which deals with all postgrad. matters, and the facs. and bds. of studies which are principally responsible for all other academic matters. Provision has also been made in the act for the establ. of a bd. of extra-mural studies, bd. of sports, students' welfare bd. and publicns. bd.

**INCOME** (estimate for July 1, 1959, to June 30, 1960). Total income—Rs. 4,892,472. Principal sources—govt. grants, 49 per cent.; fees, 35 per cent.; endowments, 0.5 per cent.

**FACULTIES AND DEANS.** *Arts*, Dr. I. P. Desai, Station Rd., Baroda; *comm.*, B. G. Shah, Station Rd., Baroda; *educn. & psychol.*, Prof. S. N. Mukerji, Station Rd., Baroda (the univ. exper. sch. is attached to the fac. for practice and experiments in teaching); *fine arts*, Prof. N. S. Bendre, University Rd., Baroda; *home sci.*, Prof. Justina Singh, University Rd., Baroda (the Chetan Balwadi—a pre-primary sch.—is attached to the fac. for teaching child development, etc.); *med.*, Dr. J. D. Pathak, Station Rd., Baroda; *sci.*, Prof. N. M. Bhatt, Station Rd., Baroda; *soc. work*, Mrs. Indra S. Tayal, University Rd., Baroda (mental hyg. & psychiatric clinic is attached to the fac.); *technol. & engin.*, Prof. P. J. Madan, Rajmahal Rd., Baroda.

**LIBRARIES.** Central univ. library; specialized libraries in all facs., insts. and halls of residence. Oriental inst. library has 23,430 MSS. and 21,634 books. Total stock in all libraries: 201,848.

**MUSEUMS.** Ancient mus. instruments; archaeol.; teaching aids; all depts. of med. fac.

**LABORATORIES, ETC.** Biochem., bot., chem., geol., stats., zool.; all depts. of home sci., med. and technol. facs. Studios and workshops for fine and appl. arts.

Bot. garden; herbarium; observatory; Rasashala for res. in Ayurveda; experimental school.

**TEACHING HOSPITALS.** Shri Sayaji General, Padamavati T.B. Sanatorium, Jamnabai Hosp.

**ADMISSION.** Students who have passed the Bombay sec. sch. cert. exam. or entrance, matric. or equivalent exam., or recognized exam. of an Indian statutory univ. will be admitted to the course leading to the 'preparatory exam.'

**PREPARATORY AND PRE-PROFESSIONAL COURSES.** A 1-yr. course from matric. leads to the preparatory exam. The 1-yr. pre-professional courses, for students who intend to read for 1st degrees in technol. and engin. or in med., are open to those who have passed the preparatory exam. in sci. or an equivalent exam.

**FIRST DEGREES.** BA, BSc, BCom—3 yrs. after preparatory exam. in arts, sci., comm.; Shastrī—2 yrs.; BE (civil, mech., electr.), BText(Eng), BText(Tech)—4 yrs. after preparatory exam. in sci. (i.e. 3 yrs. after pre-professional course); BSc(Home), BA(Fine), BMus—4 yrs. after matric.; BArch—5 yrs. after matric.; MB BS—5½ yrs. after pre-professional course in med. No hons. degrees are awarded.

**HIGHER DEGREES.** BEd—1 yr. after bachelor's degree in arts, sci., comm.; MA, MEd, MSc, MCom, MA (Fine), MMus, MSc (Home), MSW, MD, MS, ME (civil, mech., electr.)—2 yrs.; PhD in arts, sci., comm.—2 yrs. after master's degree; Acharya—2 yrs.

**DIPLOMAS.** Teaching (TD), co-operation (DipCo-op), 1 yr. after matric.; engin. (DCE, DME, DEE), textile chem. (DTC), dance, dramatics, 3 yrs.; textile technol., painting, sculpture, appl. arts, 4 yrs.; music, Visharad, 5 yrs.; also post-dipl. courses in painting, sculpture, appl. arts, 2 yrs. *Postgraduate*: banking, library sci., co-operation, professl. dipl. in educn. admin. (DipEdAdm), professl. dipl. in appl. linguistics (DipALing), guidance & counselling (DGC), 1 yr.; ophthalmol. (DO), anæsthesiol. (DA), clin. pathol. (DCP), 12 mos.; laryngol. & otol. (DL&O), med. radiol. & electrol. (DMR&E), pædiatrics (DPæd), venerol. & dermatol. (DV&D), 9-12 mos.; tubercular diseases (TDD), 12-18 mos.; museol., 2 yrs.

**STUDY LEAVE** may be granted to not more than 3 members of teaching staff at a time. Study leave of not more than 3 yrs. or, ordinarily, less than 6 mos. can be granted to members below the age of 45 after at least 5 yrs.' permanent service. Payment of all educn. fees, stipend subject to a max. of Rs. 450 p.m. for study abroad and Rs. 175 p.m. for study in India, rail and steamer fare from Baroda to place of study and back.

**FEES.** Tuition per term : degree courses—arts, sci., Rs. 100 ; educn. & psychol., Rs. 120 ; comm., Rs. 100 ; technol., Rs. 200 ; fine arts, home sci., Coll. of Indian Music, Dance & Dramatics, Rs. 75. Higher degree courses—arts, sci., comm., Rs. 100 ; educn. & psychol., Rs. 100 (for 2 yrs. by papers), Rs. 200 (for 1 yr. by papers), Rs. 100 (for thesis) ; fine arts, home sci., Coll. of Indian Music, Dance & Dramatics, Rs. 75 ; soc. work, Rs. 100. Dipl. courses—educn. & psychol., Rs. 60 ; comm., Rs. 25 ; technol., Rs. 100 ; fine arts, Rs. 75. Post-dipl. courses—fine arts, Rs. 75. Postgrad. dipl. courses—comm., Rs. 100 ; fine arts, Rs. 100.

Lab. fees per term : fine arts (all courses except postgrad. dipl.), Coll. of Indian Music, Dance & Dramatics, Rs. 20 ; home sci. (degree and higher degree courses), Rs. 20 ; sci. (degree courses) : 1st yr. and pre-med., Rs. 25 ; 2nd & 3rd yrs., Rs. 40.

The **MEDIUM OF INSTRUCTION** at present is Engl., but students are allowed to answer questions at exams. in Engl. or Hindi or the regional lang. (Gujarati).

**ACADEMIC YEAR.** Two terms, each of approx. 16 wks., from June 21 (fine arts, July 1 ; soc. work, July 15) to March 20 (fine arts, March 31 ; med. & soc. work, April 15).

**SCHOLARSHIPS.** Postgrad. scholps. of Rs. 40 p.m. : 4 each for arts and sci., 2 each for educn. & psychol., comm., fine arts, music, home sci., soc. work.

**HALLS OF RESIDENCE.** (For wardens, see 'Admin. and Other Staff', above.) For men : Shri Manubhai Mehta Hall, Univ. Campus, Baroda (tel. : 2735), 147 students ; Maharshi Arvind Hall, Univ. Campus, Baroda, 146 students ; Dr. Jivraj Mehta Hall, Univ. Campus, Baroda (tel. : 2259), 153 students ; Prof. T. K. Gajjar Hall, Univ. Campus, Baroda, 160 students ; Shri K. M. Munshi Hall, Univ. Campus, Baroda (tel. : 2735), 118 students ; Shri Dadabhai Naoroji Hall, Univ. Campus, Baroda, 67 students ; Keshavprasad Hostel, Bagikhana Rd., Baroda, 26 students. For women : Shrimati Sarojinidevi Hall, Univ. Rd., Baroda (tel. : 2461), 190 students ; Shrimati Hansa Mehta Hall, Univ. Rd., Baroda, 101 students. Fees : Rs. 85 per term.

**STAFF RESIDENCES.** The univ. has 7 residential bungalows, 18 flats and 25 small cottages.

**NATIONAL CADET CORPS.** The univ. N.C.C. has 5 units, viz. : 6th Bombay bn. with total strength of 625 cadets, 1 C.O., 1 admin. officer, and 7 N.C.C. officers ; 18th Bombay engin. platoon (60 cadets, 2 officers) ; 20th Bombay med. company (60 cadets, 1 officer) ; 5th Bombay girls troop (135 cadets, 3 lady officers) ; 22nd Bombay girls troop (under command of 6th Bombay bn.).

**AUXILIARY CADET CORPS.** The univ. has also introduced the A.C.C. scheme which aims at developing character and capacity for leadership and is compulsory for students of the first 2 yrs. in degree and dipl. classes.

**STUDENT HEALTH SERVICE.** All new students are medically examined. There are 2 hon. med. officers, one for men and one for women, who visit the halls of residence regularly and attend to the 'follow-up' work of cases indicated by the med. exam. bd.

**STUDENTS' UNION.** The executive cttee. consists of the pres. apptd. by the univ. from amongst members of staff, the treasurer apptd. by the vice-chancellor from amongst members of staff, and 20 elected student reps. of different facs. and insts. of the univ. The vice-chancellor is patron of the union. The union holds debates, arranges public lectures, and maintains a library, reading room, games room, co-operative store and co-operative bank.

**STUDENTS' ADVISORY BUREAU FOR STUDIES IN INDIA AND ABROAD.** The bureau collects and supplies information about foreign and Indian univs. and other educn. institutions. It advises students on studies in foreign countries and India. The library contains prospectuses, regns., handbooks, calendars of various univs., besides books of general interest, including books giving information about scholps., cost of studies and instrcn. for students desiring to go abroad. The bureau also helps students in obtaining admission to foreign univs.

**PUBLICATIONS.** *Handbook Part I* (univ. authorities) annually, *Part II* (act, statutes, ordinances) 1956, *Part III* (syllabuses, entrance requirements) 1955, *Part IV* (prescribed and recommended text-books) 1954 ; *Annual Report* ; *Univ. Journal* (March, Oct.) ; *Journal of Oriental Institute* (quarterly) ; *Journal of Education and Psychology* (quarterly).

**UNIVERSITY PRESS.** All printing work of the univ. and instns. is undertaken by the univ. press, which is supervised by a cttee. apptd. by the syndicate.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Sir Sayajirao Diamond Jubilee and Memorial Trust Fund, Rs. 300,000.

**RESIGNATIONS.** M. C. Bhatt (fine arts) ; T. N. Shekharvarma (biochem.) ; N. K. Parikh (chem.) ; H. N. Majmudar (maths.) ; B. C. Parekh (pol.) :

Mrs. P. M. Bhatt (soc. work); K. S. Scaria (zool.); Mrs. A. A. Jaituni (home sci.); Miss Saroj Jain (home sci.); A. K. Ramanujan (Engl.); A. C. Chandola (Hindi); Miss Paravaty G. Sapra (phys. educn.).

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	5786	—
Women . . .	1072	—
Total . . .	6858	—

Distribution by Faculties. *Arts*, 1031; *Coll. of Indian Music, Dance & Dramatics*, 38; *comm.* 665; *educn. & psychol.*, 289; *fine arts*, 119; *home sci.*, 243; *med.*, 407; *polytechnic*, 575; *prep. unit*, 1230; *Sanskrit Mahavidyalaya*, 42; *sci.*, 562; *soc. work*, 65; *technol. & engin.*, 1592.

*Included in the figures above are :—*

Preparatory unit or Pre-University students, 1230.

Postgraduate students, 619 (514 m., 105 w.).

New admissions, 1827 (1442 m., 385 w.).

Students from other countries, 74.

DEGREES AWARDED (1958-59). *Arts*: BA, 158; MA, 47. *Comm.*: BCom, 77; MCom, 6. *Educn. & psychol.*: BEd, 101; MEd, 19. *Fine arts*: BA(Fine), 6. *Home sci.*: BSc(Home), 37. *Med.*: MB BS, 27; MD, 3. *Music, Dance & Dramatics*: BMus, 5; MMus, 2. *Sanskrit Mahavidyalaya*: Shastri, 2. *Sci.*: BSc, 120; MSc, 33. *Soc. work*: MSW, 15. *Technol. & engin.*: BE (civil, electr. and mech.), 91; BTetx (Eng), 8. PhD (all facs.): 4.

DIPLOMAS AWARDED (1958-59). *Libr. sci.* (postgrad.), 5; *banking* (postgrad.), 7; *DI.&C.* 2; *museol.* (postgrad.), 5.

# BIHAR UNIVERSITY\*§

Founded 1952

Postal Address : Patna 4, Bihar State, India

Cables and Telegrams : Bihar University, Patna

Telephone : Patna 2760

CHANCELLOR—THE GOVERNOR OF BIHAR (*ex officio*)

VICE-CHANCELLOR—D. RAM, BSc MB Calc., DOMS Lond.

TREASURER—R. P. SINGH, BA

REGISTRAR—A. NARAYAN, MSc

FACULTIES AND DEANS—AGRICULTURE—R. S. ROY, PhD ; ARTS—K. N. SINGH, MA ; COMMERCE—C. D. SINGH, MCom ; ENGINEERING—D. L. DESHPANDE, MSc ; FINE ARTS AND CRAFTS—Mrs. SHARDA VEDALANKAR, MA PhD Lond. ; LAW—K. NARAYAN, MA BL ; MINING AND APPLIED GEOLOGY—..... ; SCIENCE—R. SHUKLA, PhD Lond. ; VETERINARY SCIENCE—H. R. KAPOOR

CONTROLLER OF EXAMINATIONS—D. P. VARMA, MA

INSPECTOR OF COLLEGES—S. K. BASU, MSc

DEPUTY REGISTRAR—P. ROY CHOWDHURY, BSc

ASSISTANT REGISTRAR—H. N. RAI, BCom

## COLLEGES MAINTAINED BY THE UNIVERSITY

[MA, MCom, etc., after the name of a coll. means that courses are provided there for MA, MCom, etc.]

BHAGALPUR, *Tej Narayan Banaili College* (tel. : Bhag. 73). BA, BSc, BA (hons.), BSc (hons.), MA, MCom. Principal—M. Prasad ; 66 other Teachers. Hds. of postgrad. depts. : HINDI—V. Srivastava, MA ; COMM.—C. D. Singh, MCom ; RURAL ECON. AND CO-OPERATION—N. Jha, PhD ; SOCIOL.—I. Prasad, MA ; STATS.—..... ; LABOUR AND SOC. WELFARE—..... 17 other Teachers (in postgrad. depts.).

MUZAFFARPUR, *Langat Singh College* (tel. : Muz. 61). BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—D. B. Shastri, PhD. Hds. of postgrad. depts. : ENGL.—M. Pratap, MA Camb. ; HINDI—D. N. Sharma, MA ; SANSKRIT—R. N. Sharma, MA ; HIST.—H. R. Ghoshal, PhD ; PSYCHOL.—B. Dey, PhD Lond. ; MATHS.—

R. Shukla, PhD Lond. ; PHYS.—S. P. Sinha, PhD Lond. & Patna, MSc ; CHEM.—D. N. Choudhary, PhD Dacca ; BOT.—..... ; ZOOL.—..... ; POL. SCI.—L. P. Singh, PhD Lond. ; ECON.—H. G. Singh, PhD Lond. ; PHILOS.—Y. Masih, PhD Lond. 110 other Teachers.

RANCHI, *Ranchi College* (tel. : Ranchi 241). BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—G. P. Dube, MSc Camb. Hds. of postgrad. depts. : GEOG.—E. Ahmad, PhD Lond. ; ANTHROPOL.—L. P. Vidyarthi, PhD ; POL. SCI.—E. Ashirvathan, PhD Lond. ; BOT.—..... ; ZOOL.—K. C. Bose, PhD ; PHYS.—M. P. Gupta, PhD Lond. ; CHEM.—..... ; ENGL.—..... ; PHILOS.—..... ; HIST.—P. N. Ojha, PhD ; HINDI—R. K. Pandey, PhD. 90 other Teachers.

## COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

ARRAH, *Harprasad Das Jain College* (tel. : (hons.), BCom (hons.). Principal—P. Rai, Arrah 72). BA, BSc, BCom, BA (hons.), BSc MCom ; 82 other Teachers.

\* Member of the Association of Universities of the British Commonwealth.

§ Since this entry was revised, the Bihar Univ. Act, 1951, and the Patna Univ. Act, 1951, have been passed.

ARRAH, *Mahadevanand Giri Mahila Mahavidyalaya*. BA. Principal—Miss Juthika Maitra, MA ; 8 other Teachers.

ARRAH, *Maharaja Ram Ran Vijoy Prasad Singh College* (tel. : Arrah 86). BA, BSc. Principal—J. Singh, MA ; 31 other Teachers.

AURANGABAD, *Sachchidananda Sinha College*. BA, BCom, BSc, BA (hons.). Principal—A. C. Kashyap ; 31 other Teachers.

BABU BARHI, *Jagdish Nandan College*. BA. Principal—P. Mishra, MA ; 7 other Teachers.

BANKA, *Pandit Baliram Sharma College*. BA. Principal—R. Singh, MA ; 7 other Teachers.

BANMANKHI, *Gorelal Mehta College*. BA. Principal—..... ; 7 other Teachers.

BARBIGHA, *Shrikrishna Ramruchi College*. BA. Principal—R. S. N. Sinha, MA ; 10 other Teachers.

BARH, *A.N.S. College*. BA, BSc. Principal—S. P. Singh, MA ; 32 other Teachers.

BARIIYA, *Badrinarain Mukteshwar Singh College*. BA. Principal—K. Prasad, MA ; 8 other Teachers.

BEGUSARAI, *Ganesh Dutta College*. BA, BA (hons.), BCom, BSc. Principal—S. N. Singh, MA ; 54 other Teachers.

BEGUSARAI, *Women's College*. BA. Principal—

BETTIAH, *Maharani Janki Kunwar College*. BA, BSc. Principal—A. K. Prasad, MA ; 22 other Teachers.

BHABUA, *Sardar Vallabhbhai Patel College*. BA. Principal—C. Prasad ; 7 other Teachers.

BHAGALPUR, *Marwari College* (tel. : Bhag. 36). BA, BCom, BCom (hons.). Principal—B. N. Mukherjee, MA ; 34 other Teachers.

BIIAGALPUR, *Sundarvati Mahila Mahavidyalaya* (tel. : Bhag. 131). BA, BSc. Principal—Mrs. Sharda Vedalankar, MA PhD Lond. ; 22 other Teachers.

BIHAR SHARIFF, *Nalanda College* (tel. : Bihar 41). BA, BSc, BA (hons.), BSc (hons.). Principal—R. S. Bahadur, PhD ; 43 other Teachers.

BIKRAMGANJ, *Anjabit Singh College*. BA. Principal—Bishwanath Singh, MA ; 8 other Teachers.

BUXAR, *Maharshi Vishwamitra Mahavidyalaya*. BA. Principal—R. Tiwary ; 8 other Teachers.

CHAIBASA, *Tata College* (tel. : Chai. 101). BA, BSc, BA (hons.), BSc (hons.). Principal—K. S. Lal, MA ; 6 other Teachers.

CHANDAULI, *Jagarnath Singh College*. BA. Principal—J. C. Sinha, MA ; 8 other Teachers.

CHAPRA, *Jagdam College*. BSc, BA, BA (hons.). Principal—B. N. Singh, MSc ; 27 other Teachers.

CHAPRA, *Jay Prakash Mahila Mahavidyalaya*.

BA. Principal—Mrs. Bhagya Vikram ; 7 other Teachers.

CHAPRA, *Rajendra College* (tel. : Chap. 21). BA, BSc, BCom, BA (hons.), BSc (hons.), BCom (hons.). Principal—M. P. Sinha, MA ; 64 other Teachers.

DAITONGANJ, *G.L.A. College* (tel. : Dalt. 77). BA, BSc. Principal—J. N. Dixit, MA ; 25 other Teachers.

DARBHANGA, *Chandradhari Mithila College* (tel. : Dar. 51). BA, BSc, BCom, BA (hons.), BSc (hons.), BCom (hons.). Principal—I. K. Mishra, PhD ; 90 other Teachers.

DARBHANGA, *Marwari Mahavidyalaya*. BA. Principal—N. P. Sinha, MA ; 11 other Teachers.

DARBHANGA, *Millat College*. BA. Principal—..... ; 8 other Teachers.

DEOGHAR, *Deoghar College* (tel. : Deo. 89). BA, BSc, BA (hons.). Principal—K. N. Sahay, MA ; 26 other Teachers.

DINAPORE, *Bindeshwar Singh College* (tel. : Din. 52). BA, BSc. Principal—P. K. Choudhary, MSc ; 21 other Teachers.

DUMKA, *Santhal Parganas College* (tel. : Dum. 46). BA, BSc. Principal—S. N. Jha, MSc ; 21 other Teachers.

DUMRI, *Dharichchan Kuar College*. BA. Principal—M. Srivastava, MA ; 10 other Teachers.

FORBESGANJ, *Forbesganj College*. BA, BCom. Principal—R. N. Jha, MCom ; 10 other Teachers.

GAYA, *Gautam Buddha Mahila College*. BA. Principal—S. Mahajan, MA ; 8 other Teachers.

GAYA, *Gaya College* (tel. : Gaya 106). BA, BSc, BCom, BA (hons.), BSc (hons.), BCom (hons.). Principal—K. S. Varma, PhD ; 85 other Teachers.

GIRIDIH, *Giridih College* (tel. : Giri. 96). BA, BSc. Principal—B. N. Varma, MSc ; 18 other Teachers.

GODDA, *Godda College*. BA, BSc. Principal—S. Mishra, MCom ; 10 other Teachers.

GOPALGANJ, *Gopalganj College*. BA, BSc. Principal—R. P. Singh ; 10 other Teachers.

HAJIPORE, *Raj Narain College*. BA, BSc. Principal—N. C. Bhattacharya, MA ; 22 other Teachers.

HATHWA, *Gopeshwar College*. BA, BSc. Principal—D. N. Sahay, MA ; 10 other Teachers.

HAZARIBAGH, *St. Columba's College* (tel. : Haz. 97). BA, BSc, BA (hons.), BSc (hons.). Principal—A. F. Markham, MA Oxon. ; 53 other Teachers.

HILSA, *Shrichan Udasin College*. BA. Principal—G. Nath, MA ; 9 other Teachers.

JAINTPUR, *Ragho Prasad Sinha College*. BA. Principal—R. Prasad ; 8 other Teachers.

JAMALPUR, *Jaggiwan Ram Shramik Mahavidyalaya*. BA. Principal—S. P. Srivastav, MA ; 10 other Teachers.

JAMSHEDPUR, *Co-operative College*. BA, BCom, BSc. Principal—M. Singh, MA ; 40 other Teachers.

JAMUI, *K.K. Memorial College*. BA, BSc. Principal—R. S. Singh, MSc ; 16 other Teachers.

JEHANABAD, *Swami Sahjanand College*. BA, BSc. Principal—C. N. Sharma, MA ; 17 other Teachers.

JHANJIHARPUR, *Janta College*. BA. Principal—..... ; 6 other Teachers.

JHARIA, *Raja Shiba Prasad College*. BA, BSc, BCom, BA (hons.). Principal—S. Govind, MA ; 32 other Teachers.

KATIHAR, *Darshan Shah College*. BA, BSc, BCom. Principal—B. N. Sinha, MA ; 20 other Teachers.

KHAGARIA, *Koshi College*. BA, BSc, BCom, BA (hons.). Principal—R. B. Prasad, MA ; 21 other Teachers.

KISHUNGANJ, *Harihar Saha College*. BA. Principal—G. P. Sinha ; 8 other Teachers.

MADHUPURA, *Thakur Prasad College*. BA. Principal—R. Chand, MA ; 9 other Teachers.

MADHUBANI, *Ram Krishna College*. BA, BSc, BCom, BA (hons.), BSc (hons.). Principal—A. K. Dutta, MA BL ; 47 other Teachers.

MOKAMEH, *Ram Ratan Singh College*. BA. Principal—..... ; 8 other Teachers.

MONGHYR, *Balmiki Rajniti Mahila Mahavidyalaya*. BA. Principal—Mrs. S. Prasad, MA ; 8 other Teachers.

MONGHYR, *R.D. & D.J. College* (tel. : Mong. 66). BA, BSc, BCom, BA (hons.), BSc (hons.), BCom (hons.). Principal—K. N. Singh, MA ; 65 other Teachers.

MOTIHARI, *Dr. S. K. Sinha Women's College*. BA. Principal—.....

MOTIHARI, *Munshi Singh College* (tel. : Moti. 55). BA, BSc, BA (hons.), BSc (hons.). Principal—K. P. Sinha, MSc ; 38 other Teachers.

MUZAFFARPUR, *Mahanth Darshan Das Mahila College* (tel. : Muz. 171). BA, BSc. Principal—Mrs. Lalita Sinha, MA ; 17 other Teachers.

MUZAFFARPUR, *Ramdayalu Singh College* (tel. : Muz. 137). BA, BSc, BCom, BA (hons.). Principal—G. P. Singh, MA ; 55 other Teachers.

NARAYANPUR, *Jay Prakash College*. BA, BSc. Principal—R. S. Singh, MA ; 12 other Teachers.

NAUBATPUR, *Maltidhari College*. BA. Principal—B. Singh, MA ; 9 other Teachers.

NAUGACHHIA, *Naugachhia College*. BA. Principal—C. D. Thakur, MA ; 6 other Teachers.

NAWADAH, *Kanhai Lal Sahu College*. BA. Principal—B. Prasad, MSc ; 9 other Teachers.

PANDAUL, *Pandaul College*. BA. Principal—R. K. Jha, MA ; 6 other Teachers.

PARBATTA, *Kabir Moti Darshan College*. BA. Principal—N. Pathak ; 8 other Teachers.

PARSA, *Janta College*. BA. Principal—.....

PATNA, *College of Commerce* (tel. : Patna 3081). BCom, BCom (hons.). Principal—S. A. Majid, MA ; 36 other Teachers.

POONPOON, *Somewati Mahtab Das College*. BA. Principal—..... ; 8 other Teachers.

PURNEA, *Purnea College*. BA, BSc, BCom. Principal—J. P. Dwij, MA ; 27 other Teachers.

RANCHI, *Ranchi Women's College* (tel. : Ran. 265). BA, BSc. Principal—Mrs. Bhanumathy Prasad, MA ; 25 other Teachers.

RANCHI, *St. Xavier's College*. BA, BSc, BCom, BA (hons.), BSc (hons.), BCom (hons.). Principal—Rev. W. Proost ; 50 other Teachers.

SAHARSA, *Saharsa College* (tel. : Saharsa 36). BA, BSc. Principal—S. N. Sinha, MA BL ; 24 other Teachers.

SAHEBGANJ, *Sahebganj College* (tel. : Saheb. 56). BA, BA (hons.), BSc. Principal—S. B. Roy, MA ; 31 other Teachers.

SAMASTIPUR, *Samastipur College*. BA, BA (hons.), BSc. Principal—C. S. Kesari, MA ; 26 other Teachers.

SASARAM, *S.P. Jain College*. BA, BSc, BCom. Principal—K. Saran, MCom ; 25 other Teachers.

SITAMARHI, *S.R.K. Goenka College*. BA, BSc, BCom, BA (hons.). Principal—B. M. Mishra, MA ; 27 other Teachers.

SIWAN, *D.A.V. College*. BA, BSc, BCom. Principal—B. M. Mishra ; 21 other Teachers.

SOHSARAI, *Kishan College*. BA, BCom. Principal—R. B. Singh ; 10 other Teachers.

SULTANGANJ, *Murarka College*. BA, BSc. Principal—G. D. Chakravarty, MA ; 19 other Teachers.

SUPAUL, *Supaul College*. BA. Principal—

TARAPUR, *Ramsvarath College*. BA. Principal—

### Professional Colleges

BHAGALPUR, *T.N.B. College* (tel. : Bhag. 73). BL parts I & II. Principal—..... ; 5 other Teachers.

DARBHANGA, *C.M. College* (tel. : Dar. 51). BL parts I & II. Principal—L. K. Mishra, MA PhD ; 5 other Teachers.



**DARBHANGA**, *Medical College* (tel.: Dar. 28). MB BS, MD, MS. Principal—M. Prasad; 57 other Teachers.

**DHANBAD**, *Indian School of Mines and Applied Geology* (tel.: Dhan. 3). BSc and MSc in mining and in appl. geol. Director—D. N. Prasad, PhD; 67 other Teachers.

**JAMSHEDPUR**, *Regional Institute of Technology*. BSc(Eng) in civil, electr. and mech. engin. Principal—R. P. Varma, DSc M.I.T.

**MUZAFFARPUR**, *Institute of Technology* (tel.: Muz. 117). BSc(Eng) in civil engin. Principal—B. Ojha, MSc; 14 other Teachers.

**MUZAFFARPUR**, *S.K.J. Law College* (tel.: Muz. 144). BL parts I & II. Principal—K. Narayan, MA BL; 5 other Teachers.

**PATNA**, *Bihar Veterinary College* (tel.: Patna 2221). BVSc&AH Final. Principal—H. R. Kapoor; 15 other Teachers.

**RANCHI**, *Agricultural College* (tel.: Ran. 202). BSc(Agr), MSc(Agr). Principal—S. K. Mukherji; 24 other Teachers.

**RANCHI**, *Birla Institute of Technology* (tel.: Mesra, P.C.O. Extension). BSc(Eng) in civil, electr. and mech. engin. Principal—M. C. Pandey; 38 other Teachers.

**RANCHI**, *Chotanagpur Law College*. BL parts I & II. Principal—B. K. Sinha, BL; 5 other Teachers.

**SABOUR**, *Bihar Agricultural College* (tel.: Bhag. 11). BSc(Agr) final, MSc(Agr). Principal—R. S. Roy, PhD; 37 other Teachers.

**SINDRI**, *Bihar Institute of Technology*. BSc(Eng) in electr., mech., chem. and metall. engin.; MSc(Eng) in chem. engin. Principal—D. L. Deshpande, MSc; 37 other Teachers.

## GENERAL INFORMATION\*

The univ. was establd. on Jan. 2, 1952, by the Univ. of Bihar Act, 1951. It is affiliating and teaching. The act provides for postgrad. teaching and res. in the affiliated colls. to be conducted directly by the univ.; and teaching up to 1st degree stage by the affiliated colls. The constituent colls. are maintained by the univ. itself.

**CONSTITUTION.** The senate (about 209 members) is the supreme governing body of the univ. and has the entire management of and superintendence over the affairs, concerns and property of the univ. It is reconstituted every 3rd yr. The syndicate (21 members) is the executive body of the univ. The academic council (31 to 35 members) is the chief academic body of the univ.

**INCOME** (1958-59). Rs. 13,954,670 (principal sources incl.: govt., 37 per cent.; fees, 20 per cent.).

**FACULTIES AND DEANS.** See p. 431. There are also 53 bds. of studies.

**ADMISSION.** Admission to the 3-yr. degree course in arts, sci. and comm. is open to holders of certs. of higher sec. exam., pre-univ. exam. or an exam. recog. by the academic council as equivalent. (Pre-univ. cert., 1 yr. after matric. or equivalent.)

**FIRST DEGREES.** BA, BSc, BCom, pass and hons., 3 yrs. after higher sec. or pre-univ.; BSc(Eng), 4 yrs., BSc(Agr), 3 yrs. after BSc pt. I; MB BS, 5 yrs. after BSc pt. I; BVSc&AH, 4 yrs. after BSc pt. I; BSc(Mining), BSc (hons.) in appl. geol., 3-4 yrs. after BSc pt. I or equivalent exam.

**HIGHER DEGREES.** MA, MSc, MCom and BL, 2 yrs. after bachelor's degree (MA in all tech. facs., 2 yrs. after BSc in same fac.); ML, 2 yrs. after BL; MD and MS, 2 yrs. after MB BS of which at least 1 yr. practical study or hosp. work. The PhD is awarded to MAs, MScs and MComs

by exam. & thesis after 2 yrs.' res. The DSc and DLitt are awarded to MAs or MScs after 5 yrs. and to PhDs after 3 yrs.

**DIPLOMA.** Nriya Shilpa Sangeet, 2 yrs. after sec. sch. exam. or recog. equivalent.

**ORIENTAL STUDIES.** BOL and MOL degrees awarded after exam.

**FEES** (annual). Pre-univ. arts, comm., Rs. 105 pre-univ. sci., Rs. 117; BA, BCom, Rs. 117 BSc, Rs. 129; MB BS, Rs. 200; vet., Rs. 165 agr., Rs. 150; MA, BL, Rs. 153.

**ACADEMIC YEAR.** June to May, 3 terms. Term dates: June 27 to Sept. 27; Oct. 30 to Dec. 23; Jan. 2 to May 31.

**LANGUAGE OF INSTRUCTION.** Hindi up to first degree level in arts, comm., sci. English in other subjs. and stages.

**RESIDENCE.** Students not living with their parents or guardians are required to live in coll. hostels or approved lodgings. T.N.B. Coll., Bhagalpur (Warden: . . . . .), has 5 hostels, accomm. 390; L.S. Coll., Muzaffarpur (warden: M. Pratap), 4 hostels, accomm. 473. Seat rent, etc., Rs. 80.

**NATIONAL CADET CORPS.** Bihar battalions provide military trg. for students in the colls.

**MEDICAL INSPECTION AND PHYSICAL EDUCATION.** Provision has been made for inspection by qualified med. officers of students in the colls. Phys. educn. is compulsory and the colls. have on their staffs qualified phys. instrs. There is provision for athletics in all colls.

**PUBLICATIONS.** *Calendar* (Vols. I & II), publ. every 2nd yr. (price Rs. 10); *Bihar Univ. Journal* (Vols. I & II).

\* See also footnote to p. 431

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	61,842	—
Women . . .	2,675	—

Total . 64,517

Distribution by Faculties. *Agric.*, 529 ; *arts*, 41,197 ; *comm.*, 5676 ; *engin.*, 1828 ; *law*, 509 ; *med.*, 463 ; *mining*, 440 ; *sci.*, 13,353 ; *vet. sci.*, 522.

*Included in the figures above are :—*

Intermediate or Pre-University students, 44,053.

Postgraduate students, 1564.

New admissions, 32,050.

Students from other countries, 120. (Country from which largest number came : Nepal).

DEGREES AWARDED (1959). *Agric.* : BSc(Agri), 157 ; MSc(Agri), 24. *Arts* : BA, 3041 ; MA, 506 ; PhD, 1. *Comm.* : BCom, 630 ; MCom, 36. *Engin.* : BSc(Eng), 116 ; MSc(Eng), nil. *Law* : BL, 102. *Med.* : MB BS, 69 ; MD, 1 ; MS, 7. *Mining* : BSc, 44. *Sci.* : BSc, 396 ; BSc in appl. geol., 9 ; MSc, 82 ; MSc in appl. geol., 3. *Vet. sci.* : BVSc&AH, 138.

# UNIVERSITY OF BOMBAY\*

Founded 1857

Postal Address : University Road, Fort, Bombay 1, Maharashtra State, India

Cables and Telegrams : Bombay University, Bombay 1

Telephone : Bombay 255341

CHANCELLOR—H.E. THE GOVERNOR OF MAHARASHTRA (*ex officio*)

VICE-CHANCELLOR AND CHAIRMAN OF THE SYNDICATE—V. R. KHANOLKAR, BSc MD Lond., FNI

RECTOR—G. D. PARIKH, MA

REGISTRAR—T. V. CHIDAMBARAN, BA *Madr.*

LIBRARIAN—D. N. MARSHALL, MA DipLib

## UNIVERSITY TEACHING STAFF

[† = Part-Time]

### Agricultural Economics

Dantwala, M. L., MA Prof., Actg. Dir.  
Shah, C. H., PhD Lectr.  
Majumdar, N. A., PhD *Karn.*, MA  
(on leave) Lectr.  
D'Souza, V. S., MA PhD Sr. Res. Officer  
Maddala, G. S., MSc Jr. Res. Officer  
Baichwal, P. R., MA Jr. Res. Officer

### Business Management

Murty, V. S. R., MBA *Kansas*, MCom  
L.I.B. Reader  
Deshpande, A. S., BA MCom Lectr.

### Chemical Technology

Nabar, G. M., PhD MSc(Tech) *Manc.*,  
BA MSc, FRIC, FTI Mody Prof.  
Datye, K. V., BSc BSc(Tech) Res. Asst.

### Chemistry, Colour

Sunthakar, S. V., BSc(Tech) PhD Reader

### Chemistry, Organic, Inorganic and Physical

Shah, K. H., PhD *Leeds*, BSc(Tech)  
PhD Reader  
Ghosh, B. N., PhD *Leeds*, MSc Reader  
Banerjee, S. N., DPhil Lectr.

### Chemistry, Pharmaceutical

Khorana, M. L., BS(Pharm) MS *Mich.* Prof.  
Kudalkar, V. G., BSc(Tech) MS *Purdue*,  
PhD *Wash.* Sir Dorabji Tata Reader

### Chemistry, Technical

Akerkar, D. D., BChemEngg Demr.

### Chemistry, Textile

Daruwala, E. H., PhD *Manc.*, BSc  
MScTech Prof.

### Civics and Politics

Dastur, Miss Aloo J., MA PhD  
Sir Phirozeshah Mehta Prof., Hd. of  
Univ. Dept.  
Mehta, Miss Usha H., BA L.I.B PhD Reader  
Aiyer, S. P., MA PhD (Pol.) Lectr.  
..... (Pol.) Edwin Montague Lectr.

### Dyeing and Printing

..... Reader  
Kangale, P. J., BSc BSc(Tech) Tech. Asst.

### Dyestuff Technology

Tilak, B. D., DPhil *Oxon.*, BSc(Tech) PhD Prof.

### Economics

Lakdawala, D. T., MA PhD Actg. Prof.  
Brahmananda, P. R., BA *Mys.*, PhD Reader  
Ranadive, Miss K. R., BA *Camb.*, MA Reader  
Ezekiel, H. M., MA PhD  
(on leave) Temp. Lectr.  
Nair, P. A., MA PhD Temp. Lectr.  
Khambadkone, M. V., BA Jr. Res. Officer  
Doodha, K. D., MA PhD Jr. Res. Officer

### Engineering, Chemical

..... Prof.  
Nandapurkar, S. S., PhD *N.Carolina*,  
MSc PhD Singhaneer Reader

\* Member of the Association of Universities of the British Commonwealth

Chivate, M. R., BSc MSc(Tech)	Singhanee Lectr.	<b>Pharmacology</b>	
Sharma, M. M., BChemEngg	Temp. Lectr.	Rajaram Rao, M., MB BS	Lectr.
<b>Engineering, Civil</b>		<b>Pharmacognosy</b>	
Barve, R. S., BE(Civil) <i>Poona</i>	Lectr.	Battu, R. G., BSc BSc(Tech)	
<b>Engineering, General</b>		<b>Pharmacy</b>	
Joshi, M. V., BScTech <i>Manc.</i> , BE(Mech& Elect)	Reader	Baichwal, Mrs. Malati R., MS <i>Tor.</i> , BSc MSc(Tech) PhD	Singhanee Lectr.
Navalkar, V. P., BE	Reader	.....	Lectr.
<b>Engineering, Mechanical and Electrical</b>		<b>Physics</b>	
Subramanyan, P. R., BE(Mech&Elect)	Lectr.		Reader
.....	Lectr.	<b>Politics, see Civics and Pol.</b>	
<b>Engineering, Metallurgical</b>		<b>Polymer Technology</b>	
Altekar, V. A., DScEMet MS <i>Colorado</i> , BSc(Met) <i>Ban.</i>	Reader	Puntambekar, S. V., MS PhD <i>Ill.</i>	Prof.
<b>Food Technology</b>		<b>Psychology</b>	
.....	Prof.	Mukerji, N., MSc PhD <i>Lond.</i>	Prof., Hd. of Univ. Dept.
Tamhane, D. V., BSc BSc(Tech)	Lectr.	Kulkarni, T. R., MA	Reader
<b>Fuel Technology</b>		Kale, S. V., AM PhD <i>Col.</i> , MA	Reader
Pandya, S. B., BSc MSc(Tech) <i>Nag.</i>	Singhanee Lectr.	Jog, R. N., MA <i>Lond.</i> , BSc BT MED	Lectr.
<b>High Polymers</b>		Pratap, Mrs. Sarla, AM <i>Ill.</i> , MA BT	Lectr.
Potnis, S. P., BSc MSc(Tech) PhD	Sir Homi Mehta Reader	<b>Sociology</b>	
<b>Law</b>		Kapadia, K. M., PhD	Reader
Irani, P. K., MA LLM	Prof., Hd. of Univ. Dept.	Desai, A. R., PhD	Lectr.
<b>Mathematics, Applied</b>		Cabinetmaker, Miss Perin H., PhD	Lectr.
Nariboli, G. A., MSc PhD	Reader	Narain, D., PhD	Lectr.
<b>Micro-Analysis</b>		<b>Statistics</b>	
Gore, T. S., BSc(Tech) PhD	Lectr.	Chakrabarti, M. C., MSc <i>Dacca</i>	Reader, Hd. of Univ. Dept.
<b>Microbiology</b>		Kshirsagar, A. M., MSc	Lectr.
Rege, D. V., BSc BSc(Tech) PhD	Reader	Chanda, K. C., MSc <i>Calc.</i> , PhD <i>Manc.</i>	Lectr.
<b>Oils, Fats and Soaps</b>		Vartak, M. N., MSc	Lectr.
Kane, J. G., PhD <i>Wis.</i> , MSc	Prof.	<b>Technical Chemistry, see Chem., Technical</b>	
<b>Pharmaceutics</b>		<b>Technology of Oils, Fats &amp; Waxes</b>	
Purohit, K., MPharm	Lectr.	Rebello, D., PhD <i>Pitt.</i> , BSc(Tech)	Sir Homi Mehta Reader
		<b>Technology of Paints and Varnishes</b>	
		Vidwans, D. B., PhD BA BSc MSc(Tech)	Lectr.
		<b>Workshop</b>	
		.....	Supt.
		Tamhankar, D. V.	Instr.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : F. P. Soares, BA. Astd.  
Registrar : K. S. Kolge, BA. Sec., Universities'  
Information Bureau and Manager, Univ. Journal :

H. M. Remedius, MA. Manager, Univ. Press :  
V. G. Moghe, BA.

## CONSTITUENT INSTITUTIONS

UNIVERSITY DEPARTMENT OF CHEMICAL TECHNOLOGY, Matunga, Bombay 19 (tel.: 61308). Founded 1934. Courses for BSc(Tech) in subjs. mentioned on p. 442, and for BChemEng and BPharm; facilities for res. in chem. and chem. technol. for MSc(Tech), PhD (in sci. or technol.). Dir.—G. M. Nabar, PhD MScTech *Manc.*, BA MSc, FRIC, FTI; 42 other Profs., Readers and Lectrs.

UNIVERSITY DEPARTMENT OF CIVICS AND POLITICS, Fort, Bombay 1 (tel.: 251286-7). Founded 1948. Prepares students for MA and PhD by res. in pol. and for MA by exam. in pol. Hd. of Dept.—Miss Alloo J. Dastur, MA PhD; 4 Profs., Readers and Lectrs.

UNIVERSITY DEPARTMENT OF ECONOMICS, Fort, Bombay 1 (tel.: 251286-7). Founded 1921. Prepares students for MA and PhD by res., for MA by exam. in econ. and agric. econ., and for dipl. in business management. Actg. Dir.—M. L. Dantwala, MA; 10 other Profs., Readers and Lectrs.

UNIVERSITY DEPARTMENT OF LAW, Fort, Bombay 1 (tel.: 251286-7). Founded 1959. Prepares students for LL.M. by exam. and PhD by res. in law. Hd. of Dept.—P. K. Irani, MA LL.M.

UNIVERSITY DEPARTMENT OF PSYCHOLOGY, Fort, Bombay 1 (tel.: 25286-7). Founded 1959. Prepares students for MA by exam. and res. and PhD by res. in psychol. Hd. of Dept.—N. Mukerji, MSc PhD *Lond.*; 2 Readers and 2 Lectrs.

UNIVERSITY DEPARTMENT OF SOCIOLOGY, Fort, Bombay 1 (tel.: 251286-7). Founded 1919. Prepares students for MA and PhD by res. in sociol. and for MA by exam. in sociol. Hd. of Dept.—K. M. Kapadia, PhD; 3 Readers and Lectrs.

UNIVERSITY DEPARTMENT OF STATISTICS, Fort, Bombay 1 (tel.: 251286-7). Founded 1948. Prepares students for MA and MSc exams. in stats. Facilities for res. in stats. for MA, MSc, PhD. Hd. of Dept.—M. C. Chakrabarti, MSc *Dacca*; 3 Lectrs.

## CONSTITUENT COLLEGES

[Note.—BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc. Postgrad. teaching is done and res. conducted through the univ. depts. and through recognized univ. teachers in constituent colls. and postgrad. instns.]

### Science College

BOMBAY, *Institute of Science* (Govt.), Fort (tel.: 251663). BSc, MSc, PhD (in sci.), DSc. Dir.—

D. V. Bal, PhD *Liv.*, MSc. 14 other Profs., 5 Lectrs., 22 Asst. Lectrs. and Res. Assts.

### Arts, Science and Professional Colleges

BOMBAY, *Bombay College of Pharmacy*, Fort (tel.: 263526). DipPharm. Principal—K. S. Patel, BPharm MSPharm BSc.

BOMBAY, *Bombay Veterinary College* (Govt.), Parel (telegrams: Bovet, Bombay; tel.: 61180). BSc(Vet). Principal and Prof. of BACTERIOL.—D. T. Parnaik. PATHOL.—W. V. Chatupale. PARASITOL.—S. R. Rao, DSc. PHYSIOL.—M. R. Redkar, MSc. SURG.—Mrs. S. R. Hattangady, BVSc. MED.—G. R. Murkibhavi, MS. GYNÆCOL.—C. R. Sane, FRCVS. ANAT.—K. R. Alur. 9 Asst. Profs., 13 Lectrs., 3 Res. Assts., 1 Asst. Pathologist, 1 Res. Officer, 1 Hosp. Surgeon.

BOMBAY, *Elphinstone College* (Govt.), Fort (tel.: 254253). BA, MA, PhD (in arts); 1Sc. Principal—G. C. Bannerjee, MA BLitt *Oxon.* Other Profs.: ENGL.—M. V. Rajadhyaksha, MA; Mrs. Mehroo Jussawala, MA *Oxon.*, Miss Homai J. Shroff. FRENCH—M. L. Balse, MA PhD DLitt *Paris*; Mrs. Manek Paranjpe, MA. SANSK.—N. J. Shende, MA PhD; K. R. Potdar, MA DLitt. CHEM.—D. C. Motvani, MSc. GUJARATI—..... GERMAN—R. V. Paranjpe, DPhil

*Munich*, MA. PHYS.—Miss Maina M. Paranjpe, PhD *Lond.*, MSc. BIOL.—V. B. Tembe, MSc. LOGIC AND PHILOS.—J. N. Chubb, MA DPhil *Oxon.*; J. D. Swarnidasan, MA; V. M. Kulkarni, MA. MATHS.—V. D. Gadre, MSc. ECON.—H. K. Paranjpe, MA PhD; M. A. Rairikar. HIST.—G. M. Moraes, MA DLitt *Rome & Stras.*; S. N. Athavale, MA. STATS.—S. R. Mehta, MSc. MARATHI—M. A. Karandikar, PhD. HINDI—1. P. Pandey, MA. 40 others.

BOMBAY, *Govt. Law College* (Govt.), Fort (tel.: 241707). Commenced 1855. LLB, LL.M. Principal—T. K. Tope, MA LLB. 29 other Profs. and Lectrs.

BOMBAY, *Grant Medical College* (Govt.), Byculla (telegrams: Medicol; tel.: 70922). MB BS, MD (Med., Obstet. & Gynæcol., Pædiatrics, Pathol., Pharmacol.), MS (Surg., E.N.T., Ophthalmol.), MSc (Anat., Biochem., Pharmacol., Physiol.), PhD (Microbiol., Pathol.), DA, DPH, DPM, DMRE, DV&D. Also the following coll. dipls.: DCH, DGO, DOMS, DORL; and FCPS (Obstet. & Gynæcol., Pædiatrics). Dean—

D. V. Virkar, MS, FRCSEd. Profs. : MED.—R. V. Sathe, MD, MRCP. PHARMACOL.—B. B. Gaitonde, MD MSc(Med). OBSTET. AND GYNÆCOL.—Mrs. Juliet M. Desa Souza, MD, FRCS. SURG.—C. S. Patel, FRCS. OPHTHALMOL.—H. D. Dastoor, DO Oxon., DTM. ANÆSTHESIA—J. V. Karia, DA. PÆDIATRICS—P. M. Udani, MD DCH. PHYS.—D. M. Telang, BSc MD. DENT.—K. L. Shourie, MSc PhD MD. PATHOL.—R. K. Gadgil, MD. ANAT.—B. B. Sethna, MS. FORENSIC MED.—R. M. Jhala, DTM&H, MRCPed. OPERATIVE SURG.—D. R. Bharucha, FRCS. PREVENTIVE AND SOC. MED.—P. D. Paranjape, MB BS DHY. 3 Assoc. Profs., 6 Emer. Profs., 10 full-time Lectrs., 10 Lectrs., 1 Asst. Lectr., 16 Teachers, 42 Tutors, 25 full-time Jr. Lectrs., 10 Jr. Lectrs.†

BOMBAY, *Ismail Yusuf College*, Jogeshwari (Govt.) (tel. : 86088). BA, BSc. Principal—P. S. Rege, BSc(Econ) Lond. 48 other Profs. and Lectrs.

BOMBAY, *Jai Hind College and Basantsing Institute of Science*, 23-24 Backbay Reclamation, 'A' Road (tel. : 241256). BA, MA, BSc, MSc. Principal—T. M. Advani, MA LLB. Vice-Principal—G. G. Kewalramani, MA LLB. 89 other Profs., Lectrs. and Demrs.

BOMBAY, *Khalsa College*, Matunga (tel. : 60534). BA, MA, BSc, MSc. Founded by Sikhs and managed by Shiromani Gurdwara Parbandhak Cttee. of Amritsar, East Punjab. Actg. Principal—Waryam Singh, MA Panj. 86 Profs., Lectrs. and Demrs.

BOMBAY, *Kirti College* (tel. : 62172). Under control of Deccan Educn. Soc., Poona. BA, MA, BSc. Principal—M. G. Bhate, BSc(Econ) Lond., MA ; 8 other Profs. and 31 Lectrs.

BOMBAY, *Kishinchand Chellaram College*, Dinshaw Wacha Rd., Churchgate (tel. : 245344). Founded under auspices of Hyderabad (Sind) National Collegiate Bd., Bombay. MA, MSc. Founder Principal—K. M. Kundnani, MSc ; 14 other Profs., 30 Lectrs., 2 Tutors and 33 Demrs.

BOMBAY, *Law College*, Dinshaw Wacha Rd., Churchgate (tel. : 245761). Law Prelim., LLB, LL.M. Principal—Khanchand Gopaldas, BA LLB. 25 other Profs. and Lectrs.

BOMBAY, *Megji Mathradas College of Arts, Chowpatty*, Bombay 7 (telegrams : Bhavidya ; tel. : 77451) and *Narrondass Manordass Institute of Science*, Nav, Gujarat, Andheri (Greater Bombay) (tel. : 86110). Under the control of Exec. Council of the Bharatiya Vidya Bhavan (Pres., K. M. Munshi). MA, MSc, PhD (in arts & sci.). Principal—R. D. Adatia, MSc PhD. 52 other Profs. and Lectrs.

BOMBAY, *Nair Hospital Dental College* (Munic.), Byculla (telegrams : Dento ; tel. : 77161-5). BDS, MDS. Dean—H. D. Merchant, DMD Bonn. 71 other Profs., Lectrs. and Demrs.

BOMBAY, *Narrondass Manordass Institute of Science*, Andheri. See Bombay, *Megji Mathradas College of Arts*, above.

BOMBAY, *New Law College* (tel. : 62017). Founded 1954. Under the control of Modern Educn. Society, Poona. LLB. Principal—D. R. Kothare, BA LLB. 10 other Lectrs.

BOMBAY, *Parle College*, Vile Parle (tel. : 87004). Principal—C. B. Joshi, BA Camb., MA. 6 other Profs., 17 Lectrs., 5 Lectrs.†

BOMBAY, *Ramnarain Ruia College*, Matunga (tel. : 60298). BA, BSc, DipEd. Under the control of Shikshana Prasarak Mandali, Poona. Principal and Prof. of ZOOL.—N. N. Murti, BA *Madr.*, DIC, PhD Lond. Profs. : MATHS.—B. Y. Oke, MSc Camb. ; K. V. Nayak, MA *Madr.* PHYS.—R. D. Godbole, SM M.I.T., MSc ; R. D. Gupte, MSc. CHEM.—B. V. Mohile, MSc ; V. M. Bhawe, MSc PhD. GUJARATI—D. P. Parikh, MA. MARATHI—R. S. Walimbe, MA BT PhD. SANSK.—R. R. Deshpande, MA. FRENCH—V. G. Hatakhar, DLitt Paris, MA PhD. HINDI—J. C. Jain, MA *Ban.*, PhD. EDUCN.—R. W. Joshi, BSc BT. HIST.—V. D. Rao, MA LLB PhD ; M. S. Agaskar, MA. ECON.—Miss C. K. Dalaya, MA. ENGL.—V. H. Kulkarni, MA ; V. M. Paranjape, MA ; V. T. Yardi, MA. PHILOS.—N. V. Joshi, MA DLitt *Ban.* ; L. K. Araokar, MA. BOT.—V. S. Rao, BA *And.*, DSc ; Mrs. K. Gupte, MSc. STATS.—C. Y. Raosahib, MA *Madr.* 35 other Lectrs.

BOMBAY, *R.A. Podar College of Commerce and Economics*, Lakhamsi Napoo Rd., Matunga (cables : Podcomcol ; tel. : 60868). Under the control of the Shikshana Prasarak Mandali, Poona. BCom, MCom. Principal and Prof. of ECON.—L. N. Welinkar, BSc(Econ) Lond. Vice-Principals—G. P. Palekar, MCom ; P. M. Tole, MA. Other Profs. : COMM.—G. L. Maini, MCom ; S. A. Sherlekar, BSc MA *Agra*, MCom. ACCTY.—V. B. Kirtane, BSc LLB. ENGL.—J. G. Pethe, MA BT. MATHS.—U. U. Bhat, MA *Madr.* MERCANTILE LAW—P. G. Kher, BA LLB. STATS.—P. N. Phutane, MSc. 14 other Lectrs., 9 Lectrs.† and 15 Tutors.

BOMBAY, *Rishi Dayaram and Seth Hassaram National College and Seth Wassiamull Assomull Science College*, Bandra (tel. : 88244). BA, MA, BSc, MSc, PhD (in Sci.). Principal—L. H. Ajwani, MA. 80 other Teachers.

BOMBAY, *Ruparel College*, Dadar West (tel. : 61433). Conducted by the Mod. Educn. Soc., Poona. MA, MSc. Principal—N. G. Suru, MA.

BOMBAY, *St. Xavier's College*, Cruickshank Rd., Bombay 1 (tel. : 262847). BA, BSc, MA, MSc, PhD (arts and sci.). Principal and Prof. of POL.—Rev. E. D'Cruz, MA *Greg.* & Oxon., LicinPhil & Theol *Greg.* Other Profs. : PHILOS.—Rev. F. D. D'Souza, PhD DD *Greg.* PSYCHOL.—Rev. J. M. Fuster, LicinPhil LicinTheol MA (Psychol) C.U.A. AVESTA PAHLAVI—J. M. Unvala, MA PhD. HEBREW—J. D. Aaron, BA LLB.

MARATHI—M. V. Pethe, MA. ENGL.—M. F. Colaco, MA LLB. FRENCH—Rev. J. Duhr, PhD DD Greg. SANSK.—Rev. A. Esteller, MA DPhil Berl., PhD Greg. SOCIOL.—Rev. P. Gisbert, PhD Greg. & St. Louis, STL Dub., BA Lond., LicPhil & Lit Murcia. ANTHROPOL.—J. V. Ferreira, MA. HIST.—W. Coelho, MA. ANC. INDIAN CULTURE—L. B. Keny, PhD. GUJARATI—G. C. Jhala, MA. PERSIAN—A. H. Majed, BA. HINDI—S. S. Naithani, MA Alld. ISLAMIC CULTURE AND URDU—N. S. Gorekar, MA. ECON.—Rev. J. Sanmarti, BSc(Econ) PhD Lond. MATHS.—Rev. L. Vion, LèsSc Paris. MICROBIOL.—Yvonne M. Freitas, MSc. CHEM.—Rev. J. M. Corbella, MSc M.I.T., DI. Dub., BA Barcelona, BSc(Engin) BSc(Text). GEOL.—R. N. Sukheswala, BSc PhD. ZOOL.—D. M. Munshi, MSc, FLS. PHYS.—Rev. J. V. Bonet, LicinPhil Greg., MSc PhD St. Louis. BOT.—Rev. H. Santapau, PhD Greg., DIC, BSc PhD Lond., FLS. 26 other Profs., 29 Lectrs., 6 Tutors, 35 Demrs., 25 Fellows.

BOMBAY, *St. Xavier's Institute of Education* (Society of Jesus), Fort (tel.: 241933). DipEd, BEd, MED, PhD. Principal—Rev. A. Solagran, PhD DD MA Dub. 2 other Profs. and 14 Lectrs.

BOMBAY, *Secondary Training College* (Govt.), Cruickshank Rd. (tel.: 26-2050). BEd, MED, PhD. Principal—S. A. Rauf, MA BT. 11 other Profs. and Lectrs.

BOMBAY, *Seth G.S. Medical College* (Munic.), Parel (telegrams: Gosumec; tel.: 60497). MB BS, BSc(Med), MD, MS, PhD. Dean—S. V. Joglekar, MS. Asst. Dean—R. B. Redkar, BSc MB BS DA. Profs.: ANAT.—K. D. Desai, MB BS MSc PhD. MED.—P. Raghavan, MD. PHARMACOL.—U. K. Sheth, MD BSc. PHYSIOL.—K. C. Batliwalla, MB BS PhD. PATHOL. AND BACTERIOL.—N. M. Purandare, MD. SURG.—P. K. Sen, MS. BIOCHEM. AND NUTRITION.—R. G. Chitre. 8 Asst. Profs., 8 Lectrs. & 4 Tutors, 62 Hon. Lectrs. and Asst. Hon. Lectrs.

BOMBAY, *Siddharth College of Arts and Science*, Anand Bhavan, Fort (tel.: 253868). Under the control of the People's Educn. Soc. (Chairman, R. R. Bhole, BSc LLB) BA, BSc, MA, MSc, PhD. Principal—H. R. Karnik, MA PhD. Vice-Principals—G. C. Saldanha, MA LLB (Arts); J. V. Deshpande, MSc PhD (Sci.). 53 other Profs. and Lectrs.

BOMBAY, *Siddharth College of Commerce and Economics*, Anand Bhavan, Fort (tel.: 253868). Under the control of People's Educn. Soc. BCom, MCom. Principal—J. C. Bahl, BA Panj., MCom. 4 Profs., 2 Profs.†, 9 Lectrs., 6 Lectrs.†, 2 Tutors, 6 Tutors.†

BOMBAY, *Siddharth College of Law*, Anand Bhavan, Fort (tel.: 253869). Under the control of People's Educn. Soc. LLB. Principal—V. G. Dalvi, LLB Camb., BA Camb. & Bom. 16 other Profs.

BOMBAY, *Sir Currimbhoy Ebrahim Memorial Dental College* (Govt.), Byculla (tel.: 75454).

BDS. Principal—K. L. Shourie, BSc MB BS MDS Panj., MSc Madr., PhD Roch. Teachers: EXODONTIA AND ORAL SURG.—H. L. Mulgaonkar, MB BS, FDSRCS; C. T. Chudgar, LDSc; S. S. Khera, BDS Panj.; OPERATIVE DENT.—M. K. Sanjana, BDS Lond., BA BSc; Kishore Chand, DDS MS; V. Subramanian, BSc BDS. ORTHODONTIA—P. Prakash, BDS Panj., MS Tufts; A. C. Henrique, DDS MSc DSc(Dent) Penn. PROSTHETICS—T. M. Udani, MScD BDS; P. F. Souza-Cordeiro, BDS MS Tufts; L. De Souza, BSc BDS. DENTAL ANAT. AND DENTAL HISTOL.—C. T. Chudgar, LDSc. DENTAL PATHOL. AND BACTERIOL.—A. M. Malaowalla, BSc BDS. MAXILLO-FACIAL SURG.—C. T. Chudgar, LDSc. PERIODONTIA—K. L. Shourie, BSc MB BS MDS Panj., MSc Madr., PhD Roch.; V. N. Bhatvadkar, MS BSc BDS; G. B. Shankwalkar, MS BDS. 11 Jr. Lectrs., 13 Clin. Tutors, 2 Mechanics.

BOMBAY, *Sir J. J. College of Architecture*, Dadabhoy Naoroji Rd., Bombay (tel.: 264649). Principal—W. J. de Lima. 3 Profs. of Archit., 5 Lectrs., 17 Visiting Lectrs., 10 Studio Assts., 1 Workshop Instr.

BOMBAY, *Sophia College for Women*, Bhulabhai Desai Rd. (telegrams: Sophiacoll, Bombay; tel.: 40223). Under control of Society for Higher Educn. of Women in India. BA, MA, 1Sc. Principal—Rev. Mother W. Ward, BA Lond., MA Oxon. 36 other Profs. and Lectrs.

BOMBAY, *Sydenham College of Commerce and Economics* (Govt.), 'B' Road, Churchgate Reclamation (tel.: 242897). BCom, MCom, PhD (in comm.). Principal—K. T. Merchant, BSc(Econ) Lond., MA LLB. Other Profs.: ECON.—G. L. Abhyankar, MA. COMM.—B. S. Bhir, PhD Lond., MCom. ACTUARIAL SCI.—N. M. Dongre, MCom, FIA. 28 other Lectrs. and Instrs.

BOMBAY, *Topiwala National Medical College* (Munic.), Byculla (telegrams: Namecol; tel.: 77161-65). MB BS, MS, MD and MSc(Med). Dean—L. Monteiro, MD. 78 other Teachers.

BOMBAY, *V. J. Technical Institute*, Matunga (telegrams: Vijetinst; tel.: 60921-2). BText, BE (civil, electr., mech.), ME (civil, electr., mech., auto.), Dipl. in Indust. Management. Principal and Prof. of TEXTILE TECHNOL.—R. K. Mody, MSc(Tech) Manc. Other Profs.: MECH. ENGIN.—..... ELECTR. ENGIN.—M. K. Dalal, MSc Lond. CIVIL ENGIN.—S. J. Arceiwala, BE MS(SanEngin) Harv. APPL. MECHANICS—M. P. More, BE. AUTO. ENGIN.—L. M. Rajpal, BE. 16 other Asst. Profs. and over 66 Lectrs.

BOMBAY, *Wilson College*, Chowpatty (tel.: 41595). BA, BSc, MA, MSc, PhD. Principal—J. W. Airan, MSc PhD. Profs.: CHEM.—P. M. Barve, MSc. BIOCHEM.—J. W. Airan, MSc PhD. HIST.—K. M. Mathew, MA. ENGL.—J. C. Daruvala, MA. FRENCH—B. M. Mehta, MA.

GUJARATI—P. K. Shah, MA. HINDI—S. N. Sharma, MA. MARATHI—G. B. Gramopadhye, MA PhD. MATHS.—D. B. Wagh, MA. PHILOS.—S. Ookerjee, MA. PHYS.—V. D. Dabholkar,

BA MSc. SANSK.—S. N. Gajendragadkar, MA PhD. BOT.—J. P. Kotwal, MSc Nag., PhD Camb. ZOOL.—S. P. Karmarkar, MSc PhD. ECON.—T. B. Desai, MA.

## GENERAL INFORMATION

Bombay Univ. was establd. in 1857, but until the passing of the Indian Universities Act of 1904, the function of this univ., in common with that of other univs. in India, was limited to examining candidates and arranging for the courses of study which led up to its degrees. Under the act of 1904, it acquired the right of organizing teaching, arranging for univ. extension lectures, and of publishing such works as were necessary for the direct educnl. work it was to carry on. Under the univ. act of 1928 the univ. went on to arrange for postgrad. instructn. and res. through its own depts. as well as through the teachers in affiliated colls. and recog. postgrad. instns., recog. as postgrad. teachers of the univ. As far as undergrad. educn. was concerned, the univ. was an affiliating univ. Before the establ. of the Univ. of Sind and of regional univs. in Bombay state, the jurisdiction of Bombay Univ. extended over the whole of the former province of Bombay and Sind. The univ.'s jurisdiction is now confined to the limits of greater Bombay.

With the establ. of other univs. as a measure in the decentralization and reorganization of univ. educn. in the then Bombay state, the univ. was reconstituted by the Bombay Univ. Act, 1953. Its special features were : (1) reconstitution of the univ. as a teaching and federal univ.—all affiliated colls. became constituent colls. ; (2) reduction in number of elections ; (3) strengthening of academic element in senate, academic council and bds. of studies ; (4) creation of bds. of univ. teaching, predominantly academic, empowered to control post-inter. and postgrad. instructn. in constituent colls. and recog. instns. and to make recommendations to syndicate for conducting such instruction in univ. colls. and instns. ; (5) extension of powers of the univ. to include such activities as extra-mural teaching, univ. extension courses, trg. of students for competitive exams. for service under union and state govts., establ. of an employment bureau, students' unions and bd. of students' welfare, and provision for recognition of instns. of res. and specialized studies by syndicate.

**CONSTITUTION.** The senate is the governing body of the univ. The executive govt. is vested in the syndicate. The other authorities of the univ. are the academic council, the facs., the bds. of univ. teaching and the bds. of studies in the various facs.

**INCOME (1958-59).** Total: Rs. 6,135,264 (central govt. grants, 21.5 per cent. ; state govt. grants, 15 per cent. ; fees, 47.7 per cent. ; endowments, 5.5 per cent. ; other sources, 10.3 per cent.).

**FACULTIES AND DEANS.** *Arts* : Prof. V. G. Hatakhar ; *comm.* : Principal J. C. Bahl ; *dent.* Dr. T. M. Udani ; *law* : M. P. Amin ; *med.* Dr. A. V. Baliga ; *sci.* : Prof. D. S. Agashe ; *technol.* : G. A. Kamtekar.

**LIBRARIES.** Main univ. libr.—more than 150,000 vols., about 1500 MSS. in Arabic, Persian and Urdu, and about 6000 in Sansk. *Deptl. libraries*—univ. depts. of econ., pol. & sociol.—approx. 48,000 vols., 506 theses in MSS., about 200 journals ; univ. dept. of chem. technol.—more than 10,000 vols. in Engl. and German, about 200 periodicals ; univ. dept. of stats.—approx. 4100 vols., 38 journals ; univ. dept. of appl. psychol.—1211 vols., 45 journals ; univ. dept. of law—784 vols.

**HOSPITALS AND LABS. RECOGNIZED BY THE UNIV.** Hosps. and labs. attached to Grant Medical Coll. ; Cama and Allbless hosps. ; hosps. and labs. associated with Seth Gordhandas Sunderdas Med. Coll. ; Sir Currimbhoy Ebrahim Memorial Dental Hosp., Byculla, Bom. ; Haffkine Inst., Parel, Bom. ; Bai Yamunabai Nair Hosp. attached to Topiwala National Med. Coll.

**ADMISSION.** The min. qualif. for admission to courses in the facs. of arts and sci. is the passing of the entrance exam., the secondary sch. cert. exam. of the S.S.C. Exam. Bd., Bombay state (subject to certain conditions), the matric. exam. (subject to certain conditions) of any statutory univ. in the Indian union, or an exam. recog. as equivalent to the entrance exam. (A list of recog. exams., with conditions subject to which they are recog., is publ. in the *Handbook*, Pt. II.)

The following overseas qualifs. are recog. for the purpose of entrance : Oxford and Cambridge sch. cert. ; matric. cert. of South African Jt. Matric. Bd. (if exam. passed with Engl., an additional lang., hist. or geog., maths. and 1 other subject, or if passed in any 5 or more subjs. but with credits in at least 4 of them at the same exam.) ; G.C.E. (ordinary level) (with similar conditions) ; London Univ. matric. cert. (if exam. passed in Engl., an addnl. lang., hist. or geog., maths. and 1 other subject, or if passed in 1st or 2nd div.) ; Rangoon Univ. matric. cert. ; G.C.E. (advanced level) is considered as equivalent to the F.Y. exam. of this univ., provided the subjs. in which the candidate passes the exam. are approved by the univ. for the purpose ; Cambridge and Oxford Overseas Higher Sch. Cert. exams. are equivalent to the inter. arts and sci. exams. of this univ. subject to certain conditions. Overseas qualifs. not incl. in the regns. will be considered on their merits.



Admission to univ. courses of study for the bachelor's degrees in engin. and in med. is granted only to those who have passed the univ. inter. sci. exam. or other equivalent exam. of a recognized univ. or bd. in specified groups of subjects. The min. qualif. for admission to the LLB degree course is the passing of the inter. arts, inter. sci. or inter. comm. exam. or a degree exam. in any other fac. of the univ. or equivalent exams. of another univ. Admission to courses of study for higher degrees is granted, under certain conditions, to grads. of this, or of any other recog. univ.

**USUAL LANGUAGE OF INSTRUCTION.** English.

**FIRST DEGREES.** 2 yrs.—BSc(Med), BSc(Tech) (in chem. engin.; food technol.; technol. of intermediates & dyes; technol. of oils, fats & waxes; technol. of pharmaceuticals & fine chemicals; technol. of pigments, paints & varnishes; technol. of plastics; textile chem.); 2½ yrs.—BPharm; 3 yrs.—BE (civil, electr., mech.), LLB (if taken from inter.); 4 yrs.—BA (general), BA(spec), BSc, BSc(Vet), BCom, BChemEng, BText, BDS; 5 yrs.—BArch, MB BS. Also BSc(Agri)—course prescribed by univ. but at present no coll. affiliated to the univ. for this course.

*Note.*—The univ. has not accepted the principle of introducing the 3-yr. degree course recommended by the Secondary Educn. Commission.

**HIGHER DEGREES.** 1 yr.—BT, MEd, DHy; 2 yrs.—LLB (if taken after BA, BSc or BCom), MA, MSc, MSc(Agri), MSc(Med), MSc(Tech), MText, ME (civil, electr., mech., auto.), MDS, MVSc; 3 yrs.—LLM, MD, MS. Also PhD, DLitt, DSc.

**DIPLOMAS.** Educn., 1 yr.; librarianship, 1 yr. for grads., 2 yrs. for others; indust. management, bus. management, pharm., 2 yrs.; labour welfare, 2 yrs. postgrad. Postgrad. med. dipls.: DA, DMRE, DV&D (venereal & dermatol.), 1 yr.; DPM (psychol. med.), 1½ yrs.; DPH, 2 yrs.

**OTHER COURSES.** The univ. conducts classes to train grads. for the I.A.S. and other competitive exams. held by the Union Public Service Commission, New Delhi. Admission to these classes is open to grads. of all Indian univs., but in the case of grads. of univs. outside the Bombay area, applicns. can be considered only from those who are at present studying in this univ.

**RESEARCH.** There are ample facilities for res. Teachers from affiliated colls. where facilities for res. are available, are recognized for supervising students working for univ. res. degrees. The following institutions are recog. by the univ. as postgrad. res. instns., and certain members of their staffs have been recog. as postgrad. teachers of the univ.; Bharatiya Vidya Bhavan, Bombay 7; Indian Inst. of Educn., Bombay 71; Haffkine Inst., Bombay 12; Indian Cancer Res. Centre, Bombay 12; Marathi Sanshodhan Mandal, Marathi Grantha Sangrahalaya, Bombay 2;

Tata Inst. of Fundamental Res., Bombay 1; Taraporewala Marine Biol. Res. Stn., Bombay 2; Anjuman-i-Islam Urdu Res. Inst., Bombay 1; Technol. Lab., Indian Central Cotton Cttee., Bombay 19; Psychol. Res. Inst., Khar, Bombay; Bombay Natural Hist. Soc., Bombay; Naval Chem. & Metall. Lab., Naval Dockyard, Bombay; Atomic Energy Establt., Trombay, Bombay; Bombay Labour Inst., Bombay 14. Provision has been made for admitting to exams. for res. degrees grads. of the univ. trained in specialized res. insts. outside the univ. area.

**FEEs.** Fees for tuition and/or guidance in constituent colls.: master's and PhD degrees in arts and comm., LLM, ME, MSc (in maths. only), Rs. 80 per term of 6 mos.; MSc, PhD degree in sci., MText, Rs. 150 per term of 6 mos.; MD, MS, MSc(Med), PhD(Med), DPH, DA, DV&D, DPM, Rs. 50 per term of 3 mos. Fees for univ. postgrad. courses in the depts. of econ., pol. & sociol., Rs. 110 per term. Fees in the univ. dept. of chem. technol.: for BSc(Tech) and BChemEng courses, Rs. 200 per term. Fees for res. students, Rs. 100 per term. Dept. of statistics, Rs. 125 per term.

**ACADEMIC YEAR.** June to April, 2 terms. Term dates (approx.): June 20 to Oct. 15; Nov. 11 to March 15 (med. & dent., April 15). Christmas break (all facs.), Dec. 24 to Jan. 6.

The **UNIVERSITIES' INFORMATION BUREAU** collects and furnishes information to students regarding Indian and foreign univs. and other educn. instns., and helps grads. to secure admission to univs., etc., in foreign countries.

**STUDENT RESIDENCES.** Univ. Hostel, Matunga (tel.: 62425), fee Rs. 100 to 125 per term of 6 mos.; Marine Lines Hostel, Marine Lines (tel.: 241180), fees per term of 6 mos. Rs. 90 to 110; accomm. for 215 men students. Individual colls. are also required to provide, by the terms of their affiliation, hostel accomm. for a fair number of their students.

**EXTRA-MURAL EDUCATION.** Univ. extension courses of two types have been started: one (conducted in Hindi and Marathi) mainly for working class students such as mill and factory workers, the other (conducted in English) to promote knowledge, culture and the arts among people who have not had the benefit of univ. educn.

**NATIONAL CADET CORPS (SR. DIVISION).** Two bns. of the sr. div. of the N.C.C. are attached to the univ., as are also these other N.C.C. units: engin. platoon; battery unit; med. unit; air squadron; naval unit and women's division unit.

**STUDENT ATHLETIC FACILITIES.** The univ. bd. of sports organizes the sports activities of the univ. Inter-collegiate sports are arranged every yr. Individual colls. also provide facilities for indoor and outdoor games.

**STUDENTS' UNIONS.** There is a students' union in the univ. depts. of econ., sociol., pol. & statistics.

The students of the univ. dept. of chem. technol. have formed the technological assocn. Colls. also have students' unions.

PUBLICATIONS. *Univ. Handbook, Pt. I* (almanac and names of members of various univ. authorities), annual, As. 8; *Univ. Handbook, Pt. II* (statutes, ordinances and regns., including exam. syllabuses), 1955 edn., Rs. 8; *Univ. Handbook, Pt. III* (text-books), 1958 edn., Rs. 2.8; *Univ. Handbook, Pt. IV* (regns. relating to scholps., etc.), R. 1; *Calendar* (lists of grads. and successful

exam. candidates), latest edn., 1938-40, Rs. 6; *Journal of Univ. of Bombay*, 5 times p.a., annual sub. for 5 issues Rs. 12, for Nos. I and IV, Rs. 5, III and V, Rs. 5, II or a single copy, Rs. 3; *Univ. Econ. and Sociol. Series*, publ. by O.U.P. Special publicns. in connexion with univ. centenary: *A History of the Univ. of Bombay, 1857-1957*, by S. R. Dongerkery (then rector of the univ.), *A Centenary Souvenir*.

The UNIVERSITY PRESS, establ. in 1948, carries out most of the printing work of the univ.

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Bldgs. approaching completion*: new student hostel in S. Bombay.

### Statistics

#### STUDENT NUMBERS, August 1959

	Full-Time	Part-Time
Men . . .	38,253	—
Women . . .	11,459	—
Total . . .	49,712	—

Distribution by Faculties. *Arts*, 21, comm., 4800; *dent.*, 289; *law*, 3948; *med.*, 2140; *sci.*, 15,785; *technol.*, 1650.

Included in the figures above are :—

Intermediate students, 25,689.

Postgraduate students, 4784.

New admissions, 13,995.

Students from other countries (1958-59), 623. (Countries from which largest numbers came : Africa, 321; Goa, 81; Pakistan, 22; Malaya, 19; Ceylon, 18; Burma, 16).

DEGREES AWARDED (1958-59). *Arts*: BA(Spec), 2609; BA(Gen), 41; MA, 459; BEd, 183; MEd, 38; PhD (arts), 23. *Comm.*: BCom, 776; MCom, 96. *Dent.*: BDS, 46. *Law*: LLB, 981. *Med.*: BSc(Med), 7; MSc(Med), 5; MB BS, 286; MD, 33; MS, 25; DHy, 1. *Sci.*: BSc, 1391; MSc, 267; DSc, 2; PhD (sci.), 21. *Technol.*: BE, 147; ME(Auto), 2; BVSc, 7; BChemEngg, 11; BText, 15; MText, 2; BSc (Tech), 103; MSc(Tech), 12; BArch, 34; PhD (tech.), 6.

DIPLOMAS AWARDED (1958-59). DipEd, 194; DipLib, 35; DBM, 21; DIM, 11; DPH, 5; DA, 22; DVB, 4; DMRE, 4.

# UNIVERSITY OF CALCUTTA\*

Founded 1857

*Postal Address* : Senate House, College Street, Calcutta, India

*Cables and Telegrams* : University Calcutta

*Telephone* : 34 3014-9

CHANCELLOR—H.E. THE GOVERNOR OF WEST BENGAL (*ex officio*)

VICE-CHANCELLOR—S. MITRA, MD *Berl.*, FRCSEd, FRCOG, FACS, FNI

VICE-PRESIDENTS OF UNIVERSITY COLLEGES—ARTS—Professor N. R. RAY, DLettPhil *Ley.*, DipLib *Lond.*, MA, FLA ; COMM.—Professor S. K. BASU, MA PhD *Lond.* ; LAW—Professor P. N. BANERJEE, LLd *McG.*, MA LLB DLitt ; MED.—..... ; SCI.—Professor P. B. SARKAR, MSc DèSc *Paris*, FNI ; TECHNOL.—Professor B. C. GUHA, ScD PhD *Lond.*, FNI

REGISTRAR—D. CHAKRAVARTI, DSc, FNI

TREASURER—S. C. GHOSH, MA

CONTROLLER OF EXAMINATIONS—N. C. ROY, MA PhD *Lond.*

INSPECTOR OF COLLEGES—A. P. DAS GUPTA, MA PhD *Lond.*

SECRETARY TO THE COUNCILS OF UNIVERSITY COLLEGES OF ARTS AND COMMERCE—G. C. ROY CHAUDHURI, MA LLB PhD *Lond.*

SECRETARY TO THE COUNCILS OF UNIVERSITY COLLEGES OF SCIENCE AND TECHNOLOGY—B. K. MUKHERJEE, DIC, MSc

SECRETARY TO THE COUNCIL OF THE UNIVERSITY COLLEGE OF MEDICINE—P. K. BANERJEE, MSc MB BS

UNIVERSITY LIBRARIAN—P. C. BOSE, BA

## TEACHING STAFF

### Agriculture

Sen, P. K., DIC, MSc PhD *Lond.*

G. P. Singh Prof.

4 Postgrad. Teachers

### Anthropology

Chattopadhyay, K. P., MSc *Camb.*

Prof.

7 Postgrad. Teachers

### Arabic and Persian

Siddiqi, M. Z., MA LLB PhD *Camb.*

Asutosh Prof.

5 Postgrad. Teachers

### Botany

Sarkar, L. M., MSc PhD Sir R. B. Ghose Prof.

9 Postgrad. Teachers

### Chemistry, Agricultural

..... Sir P. C. Ray Prof.

### Chemistry, Applied

Guha, B. C., DSc PhD *Lond.*, FNI

Sir R. B. Ghose Prof.

21 Postgrad. Teachers

### Chemistry, Pure

Sarkar, P. B., MSc DèSc *Paris*, FNI

Sir R. B. Ghose Prof.

Bardhan, J. C., DSc *Lond.* & *Calc.*

G. P. Singh Prof.

Ghosh, B. N., DSc *Lond.*

Sir T. N. Palit Prof.

14 Postgrad. Teachers

### Commerce

Basu, S. K., MA PhD *Lond.*

Hd. of Dept.

28 Postgrad. Teachers

### Economics

Basu, S. K., MA PhD *Lond.*

(Indust. Finance) Prof.

Sen, S. N., MA PhD *Lond.*

Prof.

.....

Prof.

.....

Prof.

13 Postgrad. Teachers

### Education

Mookerjee, K. K., MA BT

Hd. of Dept.

18 Postgrad. Teachers

\* Member of the Association of Universities of the British Commonwealth

**English**Stock, Amy G., BA *Oxon.*

Sir G. D. Banerjee Prof.

11 Postgrad. Teachers

**Geography**Chatterjee, S. P., MSc PhD DipEd *Lond.*,DLitt *Paris*, FGS

Prof.

7 Postgrad. Teachers

**Geology**

Chatterjee, N. N., MSc

Prof.

5 Postgrad. Teachers

**History and Culture, Ancient Indian**Rav, N. R., DLettPhil *Ley.*, DipLib *Lond.*,  
MA, FLA

(Indian Fine Arts) Bagiswari Prof.

10 Postgrad. Teachers

**History and Culture, Islamic**

Raychaudhury, M., MA DLitt

Prof.

8 Postgrad. Teachers

**History, Mediæval and Modern Indian**

Sinha, N. K., MA PhD

Asutosh Prof.

13 Postgrad. Teachers

**Indian Languages, Modern**

Dasgupta, S. B., MA PhD

R. Lahiri Prof.

11 Postgrad. Teachers

**Journalism**

Bhattacharyya, C. K., MA LLB

Hd. of Dept.

8 Postgrad. Teachers

**Mathematics, Applied**Sen, N. R., PhD *Berl.*, DSc, FNI

Sir R. B. Ghose Prof.

9 Postgrad. Teachers

**Mathematics, Pure**

Sen, R. N., MA PhD

Hardinge Prof.

10 Postgrad. Teachers

**Mental and Moral Science**

Acharyya B. N. Sil Prof.

13 Postgrad. Teachers

**Pali**

Banerjee, A. C., MA PhD

Prof.

6 Postgrad. Teachers

**Phonetics and Indian Linguistics**

Sen, S., MA PhD

G. P. Singh Prof.

4 Postgrad. Teachers

**Physics, Applied**

Sengupta, A. K., DSc

Sir R. B. Ghose Prof.

13 Postgrad. Teachers

**Physics, Nuclear**Dasgupta, N. N., MSc PhD *Lond.*, FNI

Prof.

**Physics, Pure**

Khastgir, S. R., DSc PhD, FNI

G. P. Singh Prof.

Nagchaudhuri, B. D., MSc PhD *Calif.*

Palit Prof.

Bagchi, S. N., DSc

(Chem. P.) Prof.

15 Postgrad. Teachers

**Physiology**

Sen, P. B., MSc

Prof.

13 Postgrad. Teachers

**Political Science**

Banerjee, D. N., MA

Surendranath Prof.

12 Postgrad. Teachers

**Psychology**

9 Postgrad. Teachers

**Radiophysics and Electronics**

Bhar, J. N., DSc

Sir R. B. Ghose Prof.

14 Postgrad. Teachers

**Sanskrit**

Sastri Asutosh, MA PhD

Asutosh Prof.

19 Postgrad. Teachers

**Statistics**

Bose, P. K., MSc DPhil

Hd. of Dept.

8 Postgrad. Teachers

**Zoology**

Bhaduri, J. L., DSc

Sir N. R. Sircar Prof.

9 Postgrad. Teachers

**MEDICINE****Anatomy**Chatterjee, H. K., MB BS, DAE *Paris***Cardiology**Gupta, J. C., MD *Cologne***Chest Surgery**

Basu, A. K., MS, FRCS, FACS

**Dermatology**

Banerjee, B. N., MB, MRCPed

**Diseases of Chest**Sen, P. K., MB *Berl. & Calc.*, PhD TDD *Wales***Experimental Surgery**Mukerjee, S. R., MS PhD *Edin.***Medicine**

Banerjee, J. C., MB, MRCP

**Obstetrics and Gynæcology****Ophthalmology**

Sen, K. L., DOMS *Lond.*, MB, FRCSEd

**Pædiatrics**

Chaudhury, K. C., MB

**Pathology, Bacteriology and Medical Zoology**

Aikat, B. K., MD BS PhD DCP *Lond.*

**Pharmacology**

Ray, B. B., MB BS

**Physiology, Biophysics and Biochemistry**

Sen, P. P., MSc

**Psychological Medicine**

Dey, N., DPH *Lond.*, MB, MRCPed

**Radiology and Radiotherapeutics**

Mukerji, S., DMRE *Camb.*, MB

**Surgery**

Sen, A. K., MB DPH *Lond.*, FRCS

**ADMINISTRATIVE AND OTHER STAFF**

Law Officer : S. K. Dutt, MA *Oxon.* Asst. Registrar : J. C. Mukherjee, BA BT. Deputy Controller of Exams. : A. K. Roy, MSc. Asst. Controller of Exams. : B. B. Banerjee, MA DPhil. Audit Officer : B. Ghosh, BCom. Supt., Univ. Press : S. Kanjilal, BSc. Sec., Bd. of Health : A. L. Ray, MB DPH DIH. Curator,

Asutosh Museum of Indian Art : D. P. Ghosh, MA. Sec., Students' Advisory Bureau and Appts. & Information Bd. : M. M. R. Chowdhuri, DSSc *Glas.*, BCom. Univ. Engineer : S. K. Raychaudhuri, BE. Inspectress of Hostels and Messes : Mrs. Nirmala Sinha, MA.

**UNIVERSITY COLLEGES**

[IA, BA, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, BA, etc.]

CALCUTTA, *University College of Arts*, Calcutta 12. MA, MSc, BT, DPhil, DLitt ; dipls. in journalism and langs. ; cert. in langs. Secretary—J. N. Banerjee, MA PhD.

CALCUTTA, *University College of Commerce*, Calcutta 12. MA (in comm.), DPhil, DLitt. Secretary—G. C. Raychaudhuri, MA PhD LLB.

CALCUTTA, *University College of Law*, Calcutta 12 (tel. : B.B. 207). LLB. Principal—P. N. Banerjee, LL.D *McG.*, MA LLB DLitt. 32 other Teachers.

CALCUTTA, *University College of Medicine*,

Calcutta 12. DPhil, MD, MS, MO ; DPM, DMRE and dipls. in basic med. sci., cardiol., dermatol. Secretary—P. K. Banerjee, MSc MB BS DPhil.

CALCUTTA, *University College of Science*, Calcutta 9. MA, MSc, DPhil, DSc ; cert. in appl. psychol. Secretary—B. K. Mukherjee, DIC, MSc.

CALCUTTA, *University College of Technology*, Calcutta 9. MSc(Tech), DPhil, DSc ; dipl. in soap technol. Secretary—B. K. Mukherjee, DIC, MSc.

**AFFILIATED INSTITUTIONS RECOGNIZED IN DEGREE COURSES**

AGARTALA, *Maharaja Bir Bikram College*, Agartala, Tripura State. IA, ISc, BA, BSc, BCom. Principal—S. K. Chaudhuri. 57 other Teachers.

ALIFWEDNAR, *Alifwednar College*, Jalpaiguri. IA, ISc, BA. Principal—B. L. Lahuri, MSc. 12 other Teachers.

AMTA (HOWRAH), *Ramsaday College*. IA, ISc, BA. Principal—N. D. Bose, MSc. 16 other Teachers.

ARAMBAGH, *Netaji Mahavidyalaya*, Hughli. IA, ISc. Principal—A. N. Das, MA. 12 other Teachers.

ASANSOL, *Banwari Lal Bhalotia College*. IA, ISc, BA. Principal—B. B. Bhattacharyya, MA. 25 other Teachers.

ASANSOL, *Manimela Girls' College*, Burdwan. IA, ISc. Principal—A. Ray, MA DPhil. 15 other Teachers.

BAGOOLA, *Sri Krishna College*, Nadia. IA, BA. Principal—R. N. Basu. 6 other Teachers.

BAISHNALGHATA, *Dinabandhu Andrews College*, P.O. Garia, 24 Parganas. IA, ISc, BA, BSc. Principal—H. C. Bhattacharyya, MA. 20 other Teachers.

BALLYGUNGE (CALCUTTA), *Muralidhar Girls' College*. IA, BA. Principal—N. M. Sastri, MA. 31 other Teachers.

BALURGHAT (W. DINAJPUR), *Balurghat College*. IA, ISc, BA. Principal—A. C. Chakraborty, MA. 16 other Teachers.

BANGAON, *Dinabandhu Mahavidyalaya*, 24 Parganas. IA, ISc. Principal—A. K. Basu, MSc. 12 other Teachers.

BANKURA, *Bankura Christian College*. IA, ISc, BA, BSc. Principal—A. K. Mundle, MA. 28 other Teachers.

BANKURA, *Sammilani College*. IA, ISc. Principal—A. K. Ray. 14 other Teachers.

BANKURA, *Sammilani Medical College*. 1st MB BS. Principal—Lt.-Col. B. N. Hazra, MSc MB, MRCP. 12 other Teachers.

BARASAT, *Barasat College* (Govt.), 24 Parganas. IA, ISc. Principal—D. C. Chatterjee, MA. 11 other Teachers.

BARISHA, *Vivekananda College*, 24 Parganas. IA, ISc. Principal—S. K. Roy, DSc. 33 other Teachers.

BARRACKPORE, *Rashtraguru Surendranath College*. IA. Principal—C. C. Mitra, MA LLB. 7 other Teachers.

BASIRHAT, *Basirhat College*, 24 Parganas. IA. Principal—S. K. Pal, MA LLB. 7 other Teachers.

BELGACHIA, *R.G. Kar Medical College*, 1 Belgachia Rd., Calcutta (tel. : B.B. 6302). ISc, MB BS, DGO, DOMS, DA. Principal—A. K. Roy Chaudhuri, MD. 64 other Teachers.

BELUR MATH, *Ramkrishna Mission Vidyamandir*, Howrah. IA, ISc. Principal—Swarni Tejasananda. 24 other Teachers.

BERHAMPUR, *Berhampur Girls' College*, Murshidabad. IA, ISc, BA. Principal—Miss Priti Gupta, MA BT. 22 other Teachers.

BERHAMPUR, *Krishnath College*, Murshidabad. IA, ISc, BA, BSc. Principal—N. K. Sarkar, MA. 36 other Teachers.

BERHAMPUR, *Union Christian Training College*, Murshidabad. BT. Principal—Rev. T. D. Forbes, BD BEd. 6 other Teachers.

BISHNUPUR (BANKURA), *Ramananda College*. IA, ISc, BA. Principal—R. P. Bhattacharyya, MA. 19 other Teachers.

BOLPUR, *Bolpur College*, Birdgum. IA, ISc. Principal—S. Ray, MA. 14 other Teachers.

BURDWAN, *Maharajadhiraj Udaychand College for Women*. IA, BA. Principal—A. Bose. 16 other Teachers.

BURDWAN, *Raj College*. IA, ISc, BA, BSc. Principal—J. Sen, BA Oxon. 37 other Teachers.

BURDWAN, *Syamsundar College*, Syamsundar. IA, ISc, BA. Principal—J. Chakrabarti, MA. 16 other Teachers.

CALCUTTA, *All India Institute of Hygiene and Public Health* (Govt.), 110 Chittaranjan Ave. (tel. : B.B. 5981). DPH, ME and DSc in Public Health, Dipl. in Maternity & Child Welfare, Dipl. in Dietetics, Dipl. in Indust. Health, Dipl. in Nutrition. Principal—N. Jungalwala, MB BS Rangoon, MPH Johns H., MRCP. 75 other Teachers.

CALCUTTA, *Asutosh College*, 9 Russa Rd. (tel. : South 917). BA, BCom, BSc, IA, ISc. Principal—K. N. Sen, MA LLB. 152 other Teachers.

CALCUTTA, *Bangabasi College* (tel. : B.B. 1368). IA, ISc, BA, BSc, BCom. Principal—P. K. Bose, BA Oxon., LLB MA. 138 other Teachers.

CALCUTTA (SIBPUR), *Bengal Engineering College* (Govt.), Botanic Garden, Howrah (tel. : Howrah 700). BE, BArch, Dip. in Town and Regional Planning. Principal—A. C. Roy, BSc Glas., MIE(India). 182 other Teachers.

CALCUTTA, *Bengal Music College*, 4 Hindusthan Rd. IMus, BMus. Principal—N. G. Banerjee. 13 other Teachers.

CALCUTTA, *Bengal Veterinary College*, Belgachia. BVSc. Principal—K. C. Mukherjee. 30 other Teachers.

CALCUTTA, *Bethune College* (Girls) (Govt.), 181 Cornwallis St. (tel. : B.B. 786). IA, ISc, BA. Principal—Mrs. Mrinalini Emerson, MA LLB. 37 other Teachers.

CALCUTTA, *Brahmananda K.C. College*, P.O. Alambazar, Calcutta 35. IA, ISc, BA, BSc. Principal—S. K. Majumdar. 18 other Teachers.

CALCUTTA, *Central Calcutta College* (Govt.), 8 Wellesley St. (tel. : Central 3737). IA, ISc, BA. Principal—S. K. Mitra, MA. 45 other Teachers.

CALCUTTA, *Charuchandra College*, 22 Lake Rd. IA, DSc, BA, BCom. Principal—K. Basu, DSc. 57 other Teachers.

CALCUTTA, *Chittaranjan Seva Sadan College*, 148 Russa Rd. DGO, DCH, DMCW. Principal—S. Mitra, MD Berl., MB, FRCSEd, FRCOG, FACS, FNI. 17 other Teachers.

CALCUTTA, *City College*, 102/1 Amherst St. (tel. : B.B. 1565). IA, ISc, BA, BSc, BCom. Principal—A. K. Sen, MA. 350 other Teachers.

CALCUTTA, *College of Leather Technology*, Canal South Rd. BSc(Tech), Cert. in Tanning. Principal—M. Banerjee, MSc Leeds, BSc. 16 other Teachers.

CALCUTTA, *David Hare Training College* (Govt.), 25/3 Ballygunge Circular Rd. (tel. : P.K. 1814). BT. Principal—D. N. Ray, MSc BT Dacca, MA Lond., BL. 32 other Teachers.

CALCUTTA, *Dental College and Hospital* (Govt.), 114 Lower Circular Rd. BDS. Principal—U. S. Malik, MB BS. 26 other Teachers.

CALCUTTA, *Deshbandhu College for Girls*, 58A Sadananda Rd. IA. Principal—J. C. Guha, MA LLB. 7 other Teachers.

**CALCUTTA** (DUM DUM), *Dum Dum Motijheel College*. IA, ISc. Principal—N. L. Ganguli, MA. 21 other Teachers.

**CALCUTTA** (DUM DUM), *Sarojini Naidu College for Women*, 30 Jessore Rd. IA, ISc, BA. Principal—B. Sarkar. 23 other Teachers.

**CALCUTTA**, *Goenka College of Commerce and Business Administration*, 210 Bow Bazar St. BCom. Principal—P. C. Ghosh. 30 other Teachers.

**CALCUTTA**, *Gokhale Memorial Girls' College*, 1/1 Harish Mukherjee Rd. (tel.: P.K. 509). IA, ISc. Principal—Miss S. E. Rani Ghose, MA BT TD Lond. 19 other Teachers.

**CALCUTTA**, *Gurudas College*, 132 Raja Rajendralal Mitra Rd. IA, ISc. Principal—J. K. Dasgupta, MA PhD Lond. 22 other Teachers.

**CALCUTTA**, *Institute of Education for Women*, Hasting House, Alipore. BT. Principal—Mrs. Nalini Das, MA. 16 other Teachers.

**CALCUTTA**, *Khudiram Bose Central College*, 71/2A, Cornwallis St. IA. Principal—B. K. Chaudhury, MA. 6 other Teachers.

**CALCUTTA**, *Lady Brabourne College* (Govt.), P1/2, Suhrawardy Ave. (tel.: Park 324). IA, ISc, BA. Principal—Mrs. Roma Choudhuri, MA DPhil Oxon. 45 other Teachers.

**CALCUTTA**, *La Martinière*, 11 Loudon St. (tel.: P.K. 3494). IA, ISc. Actg. Principal—H. G. Chalke, BA Lond. 7 other Teachers.

**CALCUTTA**, *Loreto House* (Girls), 7 Middleton Row. IA, ISc, BA, BT. Principal—Mother F. Clare. 20 other Teachers.

**CALCUTTA**, *Maharaja Manindra Chandra College*, 20 Ramkanta Bose St. (tel.: B.B. 4562). IA, ISc, BA, BCom. Principal—A. C. Banerjee, MA PhD. 62 other Teachers.

**CALCUTTA**, *Medical College*, 88 College St. (tel.: B.B. 3670). MB BS, DOMS, TDD, DGO. Principal—S. C. Bose, BSc MB, FRCOG. 129 other Teachers.

**CALCUTTA**, *National Medical College*, 32 Gora-chand Rd. (tel.: P.K. 554). MB BS. Principal—K. N. Bagchi, DTM Liv. & Calc., MB, FRIC, FNI. 104 other Teachers.

**CALCUTTA**, *Nilratan Sarkar Medical College*, 38 Lower Circular Rd. (tel.: Central 3213). MB BS. Principal—A. K. Datta Gupta, MB DTM. 100 other Teachers.

**CALCUTTA**, *Presidency College* (Govt.), 86/1 College St. (tel.: B.B. 875). IA, ISc, BA, BSc. Principal—S. K. Basu, MA PhD Lond. 98 other Teachers.

**CALCUTTA**, *Sangit Bharati*, 25B Syamaprasad Mookerjee Rd., Calcutta 25. IMus, BMus. Principal—S. Goswami, MA. 21 other Teachers.

**CALCUTTA**, *St. Joseph's College*, 69 Bow Bazar St. (tel.: B.B. 4259). IA, ISc. Principal—Rev. Brother P. C. Hart. 6 other Teachers.

**CALCUTTA**, *St. Paul's Cathedral Mission College*, 33/1 Amherst St. (tel.: 2600). IA, ISc, BA, BSc. Principal—C. S. Shaw, MSc DPhil. 39 other Teachers.

**CALCUTTA**, *St. Xavier's College*, 30 Park St. (tel.: P.B. 995). IA, ISc, BA, BSc, BCom. Principal—Rev. T. Picachy. 55 other Teachers. Students of religious persuasions other than R.C. are admitted.

**CALCUTTA**, *Sanskrit College* (Govt.), 1 Bankim Chatterjee St. (tel.: B.B. 734). IA, BA. Principal—G. N. Bhattacharyya, MA DLitt Sastri. 27 other Teachers.

**CALCUTTA**, *Scottish Church College*, 4 Cornwallis Square (tel.: B.B. 151). IA, ISc, BA, BSc, BT. Principal—H. J. Taylor, MSc PhD. 77 other Teachers. Formerly the General Assembly's Instn. and Duff Coll.

**CALCUTTA**, *Seth Anandram Jaipuria College*, 10 Raja Nabakissen St. (tel.: B.B. 6164). IA, ISc, BA, BSc, BCom. Principal—S. C. Pal, MA BT. 33 other Teachers.

**CALCUTTA**, *Seth Soorajmull Jolan Girls' College*, 186 Chittaranjan Ave. IA. Principal—Mrs. Indrabati Singh, MA LT. 90 other Teachers.

**CALCUTTA**, *South Calcutta Girls' College*, 72 Lansdowne Rd. IA, BA. Principal—Mrs. Hani Mitra, MA BT. 21 other Teachers.

**CALCUTTA**, *Sri Shikshayatan* (College Dept.), 11 Lord Sinha Rd. IA, BA. Principal—Mrs. Pratima Bowes, MA PhD. 12 other Teachers.

**CALCUTTA**, *Surendranath College*, 24 Harrison Rd. IA, ISc, BA, BSc, BCom. Principal—R. M. Roy, MSc. 121 other Teachers.

**CALCUTTA**, *Surendranath Law College*, 24 Harrison Rd. (tel.: B.B. 29). LLB. Principal—R. B. Baksi, MA LLB. 9 other Teachers.

**CALCUTTA**, *Victoria Institution for Girls*, 78B Upper Circular Rd. (tel.: B.B. 685). IA, ISc, BA. Principal—Mrs. Suprabha Chaudhuri, MA. 34 other Teachers.

**CALCUTTA**, *Vidyasagar College*, 39 Sankar Ghosh Lane (tel.: B.B. 2085). IA, ISc, BA, BSc, BCom. Principal—D. C. Ray, MSc. 124 other Teachers.

**CALCUTTA**, *Vijaygarh J.R. College*, Calcutta 32. IA, ISc, BA. Principal—A. K. Chakrabarty. 20 other Teachers.

**CALCUTTA**, *Women's Christian College*, 6 Greek Church Row (tel.: South 831). IA, BA. Principal—Stella Bose. 18 other Teachers.

**CALCUTTA**, *Women's College*, 204 Cornwallis St. (tel.: B.B. 565). IA, BA. Principal—D. L. De, MA PhD Lond. 20 other Teachers.

**CHANDARNAGORE**, *Chandarnagore College*, Hughli. IA, ISc, BA, BSc, BCom. Principal—P. B. Mitra, MA. 41 other Teachers.

**CONTAI**, *Prabhakumar College*, Midnapur. IA, ISc, BA, BSc. Principal—N. C. Roy, MSc. 27 other Teachers.

COOCH-BIHAR, *Dinhata College*, P.O. Dinhata, Cooch-Bihar. IA. Principal—R. C. Nath, MA. 6 other Teachers.

COOCH-BIHAR, *Victoria College*. IA, ISc, BA, BSc. Principal—D. K. De, MSc. 30 other Teachers.

DARJEELING, *Govt. College*. IA, ISc, BA, BSc. Principal—B. N. Bose, MSc DPhil. 39 other Teachers.

DARJEELING, *Sree Ramkrishna B.T. College*. B.T. Principal—Major B. N. Sen. 10 other Teachers.

DARJEELING, *St. Joseph's College*. IA, ISc, BA, BSc. Principal—Rev. E. Gales. 26 other Teachers.

DARJEELING, *St. Paul's College*. IA, ISc. Principal—L. J. Goddard, MA Camb. 5 other Teachers.

DIAMOND HARBOUR, *Fakirchandra College*, 24 Parganas. IA, ISc, BA. Principal—P. K. Ray, MA. 19 other Teachers.

GARBETA, *Garbeta College*, Midnapore. IA, ISc, BA. Principal—B. B. Banerjee, MA LLB. 15 other Teachers.

GOBARDANGA, *Hindu College*, 24 Parganas. IA, ISc, BA, BSc. Principal—A. C. Banerjee, MA. 23 other Teachers.

HABRAH, *Sree Chaitanya College*, 24 Parganas. IA, ISc, BA. Principal—B. B. Bhattacharyya. 11 other Teachers.

HETAMPUR, *Krishnachandra College*, Birbhum. IA, ISc, BA, BSc. Principal—S. M. Chatterjee, MSc. 14 other Teachers.

HOUGHLY, *Hughli Mohsin College* (Govt.), Chinsurah. IA, ISc, BA, BSc. Principal—A. W. Mahmood, MA BLitt Oxon. 45 other Teachers.

HOUGHLY, *Hughli Training College*. B.T. Principal—A. K. Sarkar. 11 other Teachers.

HOUGHLY, *Women's College*, Chinsurah. IA, BA. Principal—Miss Santisudha Ghosh, MA. 15 other Teachers.

HOWRAH, *Girls' College*, 5/3 Mahatma Gandhi Rd. IA, BA. Principal—B. K. Bhattacharyya, MA. 26 other Teachers.

HOWRAH, *Narasinha Dutt College*, 129 Bellilias Rd. IA, ISc, BA, BSc. Principal—J. N. Sen, MSc. 47 other Teachers.

ITACHUNA, *Itachuna Bijoy Narayan Mahavidyalaya*, Hughli. IA, ISc. Principal—G. C. Majumdar, MA. 14 other Teachers.

JALPAIGURI, *Anandachandra College*. IA, ISc, BA. Principal—I. B. Majumdar, MA. 22 other Teachers.

JALPAIGURI, *Prasannadev Balika Mahavidyalaya*. IA, BA. Principal—Miss Charupama Bose, MA. 15 other Teachers.

JANGIPUR, *Jangipur College*, Murshidabad. IA, ISc. Principal—J. N. Datta, MSc. 15 other Teachers.

JHARGRAM, *Raj College* (Govt.), Midnapur. IA, ISc, ISc(Ag). Principal—D. N. Dasgupta. 25 other Teachers.

JIAGANJ, *Sripatsingh College*, Murshidabad. IA, ISc, BA. Principal—A. K. Chaudhuri, MA. 14 other Teachers.

KAILASAHAR, *Kailasahar Ramkrishna Mahavidyalaya*, Tripura. IA, ISc, BA. Principal—S. R. Kar, MA. 14 other Teachers.

KALIMPONG, *Scottish Universities Mission College*, Darjeeling. IA. Principal—Rev. W. M. Scott, MA BD DipEd. 11 other Teachers.

KALNA, *Kalna College*, Burdwan. IA, ISc, BA. Principal—A. R. Bardhan, MA. 12 other Teachers.

KANDI, *Kandi Raj College*, Murshidabad. IA, ISc. Principal—D. L. Das, MA PhD. 13 other Teachers.

KATWA, *Katwa College*, Burdwan. IA, ISc. Principal—S. K. Das, MA. 15 other Teachers.

KHARAGPUR, *Kharagpur College*, Midnapur. IA, ISc, BA, BCom. Principal—H. B. Sarkar, MA. 21 other Teachers.

KRISHNAGAR, *Krishnagar College* (Govt.), Nadia. IA, ISc, BA, BSc. Principal—D. P. Acharyya, MA. 55 other Teachers.

MAHISADAL, *Raj College*, Midnapur. IA, BA. Principal—S. Kahali, MA. 16 other Teachers.

MALDAH, *Maldah College*. IA, ISc, BA. Principal—D. K. Bhattacharyya, MA. 18 other Teachers.

MIDNAPUR, *Midnapur College*. IA, ISc, BA, BSc. Principal—S. K. Mitra, MSc MA Camb. 35 other Teachers.

MIDNAPUR, *Midnapur Women's College*. IA, ISc, BA. Principal—Dr. N. Majumdar. 13 other Teachers.

NABADWIP, *Vidyasagar College*, Nadia. IA, ISc, BA, BSc. Principal—A. N. Mukherjee, MA. 24 other Teachers.

NABAGRAM, *Hiralal Pal College*, Hooghly. IA, BA. Principal—T. C. Dasgupta, MA PhD. 6 other Teachers.

NAIHATI, *Rishi Bankimchandra College*, 24 Parganas. IA, ISc, BA, BCom. Principal—S. R. Das Gupta, MA PhD. 34 other Teachers.

PURULIA, *J.K. College*, Purulia. IA, ISc, BA. Principal—A. K. Prasad. 18 other Teachers.

RAIGANJ, *Raiganj College*, West Dinajpur. IA, ISc, BA. Principal—K. K. Saraswati, MSc LLB. 15 other Teachers.

RAMGANJ, *Trivenidevi Bhalotia College*, Burdwan. IA, ISc, BA. Principal—A. K. Banerjee. 17 other Teachers.

RAMPURHAT, *Rampurhat College*, Birbhum. IA, ISc. Principal—H. K. Roy, MA LLB. 14 other Teachers.

RANAGHAT, *Ranaghat College*, Nadia. IA, ISc. Principal—K. K. Ghosh, MA. 12 other Teachers.



**RISHRA**, *Bidhan Chandra College*, Hooghly. IA. Principal—K. C. Chakrabarti, MA LLB. 8 other Teachers.

**SANTIPUR**, *Santipur College*, Nadia. IA, ISc, BA, BSc. Principal—B. Sanyal, MA. 19 other Teachers.

**SERAMPORE**, *College of Textile Technology*, Hooghly. BSc(Tech). Principal—S. M. Mukherjee, MSc PhD *Leeds*, FTI. 26 other Teachers.

**SERAMPORE**, *Serampore College*, Hughli. IA, ISc, BA, BSc. The Coll. awards its own degree of BD. Principal—C. E. Abraham, MA DD. 34 other Teachers.

**SIBPUR**, *Dinabandhu Institution*, 412-1 G.T.R., Sibpur, Howrah. IA, ISc, BA. Principal—A. K. Basu, MSc. 24 other Teachers.

**SILIGURI**, *Siliguri College*, Darjeeling. IA, ISc. Principal—T. K. Bhattacharyya. 13 other Teachers.

**SONADA**, *Salesian College*, Darjeeling. IA, BA. Principal—N. Lo Groi. 9 other Teachers.

**SURI**, *Vidyasagar College*, Birbhum. IA, ISc, BA, BSc, BCom. Principal—A. K. Sen, MA. 31 other Teachers.

**TAKI**, *Taki Gov. College*, 24 Parganas. IA, ISc. Principal—B. B. Ghosh, MA. 11 other Teachers.

**TAMLUK**, *Tamralipta Mahavidyalaya*, Midnapur. IA, ISc, BA. Principal—D. Chaudhuri, MA LLB. 25 other Teachers.

**TANGRAKHALI**, *Tangrakhali Bankim Sardan College*. IA, BA. Principal—P. K. Das Gupta. 10 other Teachers.

**TOLLYGUNGE**, *West Bengal State College of Agriculture*. BSc(Ag). Principal—P. K. De, PhD *Lond.*, MSc. 21 other Teachers.

**ULUBERIA**, *Uluberia College*, Howrah. IA, ISc. Principal—H. P. Ghosal, MA. 15 other Teachers.

**UTTARPARA**, *Uttarpara Raja Pearymohon College*, Hooghly. IA, ISc, BA, BSc. Principal—K. C. Gupta, MSc. 37 other Teachers.

## GENERAL INFORMATION

In July 1854 the court of directors of the East India Company sent a dispatch to the governor-general of India in council directing the organization of the univs. of Calcutta, Madras and Bombay. In pursuance of that dispatch the Univ. of Calcutta was incorporated on Jan. 24, 1857. The jurisdiction of the univ. extended at first throughout practically the whole of northern India, but the territorial jurisdiction has now been limited to the state of West Bengal. The Indian Universities Act of 1904 empowered the univ. to make necessary arrangements for the instructn. of students, and though most of the teaching continued to be imparted in the affiliated colls., teaching in some of the higher branches began to be organized under univ. management. In 1917 a new scheme for postgrad. teaching and res. centralized postgrad. teaching in Calcutta within, and under the control of, the univ. The act of 1951 provided for higher postgrad. teaching in affiliated colls. along with the univ. colls.

**CONSTITUTION.** The senate of 151 members (89 elected, 15 nominated, 47 *ex officio*) is the supreme governing body. The syndicate of 23 members (14 elected, 9 *ex officio*) is the admin. body. The academic council of 72 members (21 elected, 51 *ex officio*) is mainly concerned with making regns. for different courses. There are 12 facs. and several bds. of studies. The normal work of the univ. is carried on under the direction of the vice-chancellor and syndicate. Control of financial affairs is in the hands of the finance cttee.

**POSTGRADUATE TEACHING AND RESEARCH.** Postgrad. teaching in arts, comm., law, sci. and technol. is conducted by the relevant univ. coll. councils. The univ. provides for postgrad.

teaching in : Engl., Sansk., Pali, Arabic, Persian, Hebrew, Syriac, Greek, Latin, French, German, Bengali, mod. Indian langs. other than Bengali, compar. philol., mental & moral philos., hist. (incl. anc. Indian hist. & culture and Islamic hist. & culture), econ., pol. sci., comm., maths. (pure & appl.), phys. (pure & appl.), chem. (pure & appl.), physiol., bot., geol., zool. & compar. anat., psychol. & appl. psychol., anthropol., stats., geog., radio-phys. & electronics, educn., law.

The dept. of postgrad. teaching and res. in arts is located in the Asutosh bldg. Postgrad. teaching and res. in the different branches of scientific and technol. studies are carried on in the Univ. Coll. of Science at 92 Upper Circular Rd. and 35 Ballygunge Circular Rd., where opportunities for res. have been provided by the establishment of extensive labs. and up-to-date workshops.

**INCOME** (1958-59). Total income, Rs. 9,456,000. Principal sources : govt. grant, 20.34 per cent. ; exam. fees, 36 per cent. ; other fees, 43.66 per cent.

**FACULTIES AND DEANS.** *Agric.*, Prof. P. K. Sen ; *arts*, Prof. N. R. Ray (anc. Indian hist. & culture) ; *comm.*, Prof. S. K. Basu (econ.) ; *educn.*, Prof. S. P. Chatterjee (geog.) ; *engin.*, Principal A. C. Ray ; *fine arts & music*, Prof. N. R. Ray (anc. Indian hist. & culture) ; *journalism*, Principal A. C. Banerjee ; *law*, R. P. Mukerjee ; *med.*, Dr. S. Mitra ; *sci.*, Prof. P. B. Sarkar (chem.) ; *technol.*, Prof. A. K. Sengupta (appl. phys.) ; *vet. sci.*, Capt. P. B. Mukerjee.

**LIBRARIES.** The univ. library contains over 255,820 vols., excl. pamphlets and periodicals, a fairly large collection of Bengali, Sanskrit and Tibetan MSS. and a large number of rotograph

copies of Persian and Arabic MSS. Other libraries attached to the univ. include the Law Coll. library and libraries of the depts. of sci. and technol.

**LABORATORIES.** Phys. and chem. (pure & appl.), appl. maths., psychol., biol., etc.; inst. of nuclear phys. (*see below*). **MUSEUMS:** Asutosh museum of Indian art (including art collections of the late Puranchand Nahar) and museums attached to the anthropol. and comm. sections of the univ.

**USUAL LANGUAGE OF INSTRUCTION.** English.

**ADMISSION.** A cert. of having passed the univ. matric. exam. (up to 1951) or sch. final exam. of W. Bengal secondary bd. of educn. (from 1952), or any exam. considered by syndicate as its equivalent. Applicants of foreign students considered on their merits.

**FIRST DEGREES.** 2 yrs.—BA, BMus, BCom, BSc, BSc(Tech); 3 yrs.—BSc(Ag), LLB; 4 yrs.—BE, BDS, BSc in vet. sci.; 5 yrs.—BArch, MB BS.

**HIGHER DEGREES.** Exam. for LLM may be taken by any law grad.; 1 yr.—BT, MSc (public health); 2 yrs.—MA, MSc, MSc(Ag), MPlanning; 3 yrs.—MSc(Tech). Degrees by thesis: MArch, ME, MD, MS, MO, DPhil (in arts or sci.), DPhilEngin, DPhilMed, DLitt, DSc, DScEng, DSc (public health), LLD. The DSc and LLD may also be conferred as honorary degrees; the DLit is an honorary degree only.

**DIPLOMAS.** Nutrition, 9 mos.; anaesth., dermatol., dietetics, DTM&H, 1 yr.; DCH, DOMS, 2 yrs.; DIH, DPH, DGO, about 2 yrs.; tuberculous dis., maternity & child welfare, about 2½ yrs.; DMR&E, 4 yrs. Other dipls.: dom. sci., langs., librarianship, soap technol., soc. work, spoken English, 1 yr.; journalism, musecol., DTRP (in engin.), 2 yrs.; appl. anthropol., jute technol., 3 yrs.

**CERTIFICATES.** Appl. psychol., langs., 1 yr.; jute technol., tanning, 3 yrs.

**FEES.** Exam. fees range from Rs. 30 for IA to Rs. 80 for MA. DPhil and DLitt exams.: Rs. 200 and Rs. 300 respectively. Tuition fees: no standard rate; fees vary from coll. to coll. and for different courses.

**ACADEMIC YEAR** begins on June 1.

**'OPEN' POSTGRADUATE AWARD.** Bipradas Pal Chowdhury fellowship (Rs. 5000 for 1 yr.) awarded every 3 yrs. for foreign scholars to study in India.

**RESIDENCE.** There are three classes of lodgings for students: (a) collegiate hostels; (b) non-collegiate hostels under external management; (c) halls maintained and hostels recog. by the bd. of residence. Seat rents vary from Rs. 7 to Rs. 12 p.m. Messing charges from Rs. 55 to Rs. 75 p.m. 68 such residences exist in Calcutta with total accomm. for 5160 students. Of these, 13 are for women only, having 700 places.

**BOARD OF HEALTH** undertakes med. exam. of students, maintains eye clinic and arranges for inspection of hostels, halls, etc.

**SPORTS BOARD.** Organizes inter-coll. and inter-univ. physical activities.

**APPOINTMENTS AND INFORMATION BOARD AND STUDENTS' ADVISORY BUREAU (OVERSEAS).** This organization has 3 sections.

**Appointments service:** secures employment for grads. and arranges practical trg. facilities in every field of employment, besides providing advice and guidance on careers.

**Advisory services:** the bd. gives advice to students at any time during and after their univ. course, on all matters relating to employment, careers, etc., offers advice and information regarding facilities available for higher studies and res. and for practical trg. overseas, admission to academic and professional instns. and facilities for practical trg. in indust. and commercial firms.

**Information service:** provides up-to-date information regarding courses of study offered by the Indian univs. and technical instns., various competitive exams. and other recruitments by govt. and semi-govt. depts., etc.

**DEPARTMENT OF TEACHING,** 95 Russa Rd., Calcutta (tel.: South 1868). Arrangements have been made in this dept. for teaching the BT course, and MA or MSc course in educn.

**INSTITUTE OF NUCLEAR PHYSICS,** 92 Upper Circular Rd. Establ. in 1951, the inst. provides MSc and post-MSc instrcn. and facilities for res. The inst. received donations from the public and grants from the govt. of India and the univ. for its establ. It is an all-India inst. in which 40 per cent. of places are meant for students coming from other states of India. Dir.—Prof. B. D. Nagchaudhuri, MSc PhD Calif.

**INSTITUTE OF JUTE TECHNOLOGY,** 35 Ballygunge Circular Rd., Calcutta, 19 (tel.: P.K. 1985). Establ. under auspices of the univ. by the Indian Jute Mills Assocn., the inst. is maintained under a governing body of which the vice-chancellor is chairman and the pres. of the assocn. is an *ex-officio* member. It is financed by the assocn. The inst. trains annually 50 sci. grads. or undergrads. A cert. course in jute technol. has been started.

**DEPARTMENT OF SOCIAL WORK.** The appts. bd., in collaboration with industries and govt. of India, started the dipl. course in soc. work for giving trg. to their labour welfare officers. An all-India Inst. of Soc. Welfare and Business Management, where facilities for trg. in general as well as indust. welfare are provided, has been establ.

**SPECIAL LECTURES.** Eminent scholars from India and abroad are, from time to time, invited by the univ. to deliver courses of lectures on subjects in which they have specialized. These lectures, after delivery, are printed and publ. by the univ.

**STUDENTS' UNIONS.** There are students' unions in colls. and various extra-academic activities are normally organized by them.

**PUBLICATIONS.** *Calendar*, Rs. 12 annually; *Univ. Regulations*, Rs. 7; *Convocation Addresses*, 1924-32 and 1915-23, each Rs. 5; *Calcutta Review*, monthly, annual sub., Rs. 7.8 inland, 14 shillings foreign; *Journals* of depts. of letters, vols. i to xxxiii, Rs. 6 each, vol. xxxiv, Rs. 5; *Journal* of the dept. of sci., vols. i to x, Rs. 4.8 per vol.; new series, vol. i, part I, Rs. 6 per vol., and Rs. 2 each part; vol. i, no. 2, Rs. 2; vol. i, no. 3, Rs. 2; vol. ii, no. 1, Rs. 2; Sir Asutosh Mookerjee Silver Jubilee vols.—vols. i, ii, and

vol. iii in 3 parts, Rs. 11.4 each; *Bulletin* of math. society, etc. Other publicns. (over 600 vols.) on anc. Indian culture, hist., philos., law, econ., maths., langs., educn. and sci. Catalogue of univ. publicns. may be had on applicn. to the registrar.

**UNIVERSITY PRESS**, 48 Hazra Rd. Supt.: S. Kanjilal, BSc. The univ. undertakes the publicn. of specialized lectures delivered by the univ. profs., lectrs. and readers, theses of successful candidates for degrees, scholps. and prizes, and results of res. work carried out by univ. profs., lectrs. and res. assts., besides a number of periodicals, annuals and serials.

## THE YEAR 1959

**RETIREMENTS.** Prof. J. N. Banerjee (hist.); Prof. S. C. Mitra (psychol.).

### Statistics

STUDENT NUMBERS, 1958-59  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	93,202	14,942
Women . . .	27,044	725
Total . . .	120,246	15,667

**Distribution by Faculties.** *Agric.*, 165; *arts*, 72,124; *comm.*, 10,005; *educn.*, 1226; *engin.*, 1167; *fine arts & music*, 49; *journalism*, 123; *law*, 3527; *med.*, 3992; *sci.*, 42,930; *technol.*, 360; *vet. sci.*, 245. Total: 135,913.

*Included in the figures above are :—*

Intermediate students, 84,814.

Postgraduate students, 3996.

New admissions, 70,559.

Students from other countries, 620. (Countries from which largest numbers came: E. Pakistan, 393; Nepal, 75; Sikkim, 38; Burma, 35; Africa, 28; Ceylon, 13).

**DEGREES AWARDED (1958).** *Agric.*: BSc(Ag), 38; MSc(Ag), 6. *Arts*: BA, 5062; BA (hons.), 659; MA, 689; DPhil, 25. *Comm.*: BCom, 2639; MCom, 205. *Educn.*: BT, 1002; MA, 27; MSc, 10. *Engin.*: BE(Arch), 7; BE(Civ), 78; BE(Elec), 31; BE(Mech), 39; BE(Met), 14; ME(Civ), 1; ME(Elec), 2; ME(Mech), 2; ME(Met), 1; ME(PH), 26. *Fine arts & music*: BMus, 4. *Med.*: BDS, 15; MB BS, 620; MD, 2; MO, 4; MS, 3; DPhil, 10. *Sci.*: BSc, 2772; BSc (hons.), 389; MSc, 266; DPhil, 36; DSc, 2. *Technol.*: BSc(Tech), 5; MSc(Tech), 77. *Vet. sci.*: BVSc, 32.

**DIPLOMAS AWARDED (1958).** *Arts*: Dip BusMan, 20; DipLang, 11; DipLib, 44; Dip SocWork, 90. *Engin.*: DTRP, 1. *Journalism*: DipJour, 20. *Med.*: DA, 7; DCH, 30; DTM &H, 49; DipDiet, 12; DGO, 51; DIH, 9; DM&CW, 24; DipNutr, 1; DOMS, 10; DPH, 62; TDD, 6. *Sci.*: DipDomSci, 58; Dip HomSci, 18.

**CERTIFICATES AWARDED (1958).** *Arts*: CertLang, 40; TT(ArtAppre), 15. *Sci.*: Cert AppPsychol, 5.

# UNIVERSITY OF DELHI\*

Founded 1922

Postal Address : Delhi 6, India

Cables and Telegrams : University, Delhi, India

Telephone : Delhi 28121

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)

CHIEF RECTOR—THE CHIEF COMMISSIONER OF THE STATE OF DELHI (*ex officio*)

CHANCELLOR—S. RADHAKRISHNAN, MA *Madr. & Oxon.*, DLitt LLD DL DCL, FBA, Vice-President of the Republic of India

PRO-CHANCELLOR—B. P. SINHA, Chief Justice of India

VICE-CHANCELLOR—N. K. SIDHANTA, MA *Camb.*, Hon. LLD *Tor.*

TREASURER—M. S. BHATNAGAR, Joint Secretary, Ministry of Finance, Government of India

REGISTRAR—T. P. S. IYER, MA

LIBRARIAN—S. DAS GUPTA, MA

PROCTOR—R. BEHARI, MA PhD ScD

## APPOINTED (§) AND RECOGNIZED TEACHERS OF THE UNIVERSITY

(for classes above Intermediate standard)

[†=Part-Time ; (CCA), (DP), etc. = abbreviations for the names of constituent colls. and instns. listed on p. 462]

Teachers other than those specifically named as Professors and Readers are Lecturers or other teachers of the University

### African Studies

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Sircar, P. K., MSc PhD

Verma, S. N., MA PhD

Prasad, A., MA PhD

Gopalakrishnan, P. K., MA MSc PhD *Amst.*§

Singh, D.

Jakeyo, E. D.

(Econ.) Prof.

Organizer§

Reader§

Reader§

Reader§

Reader§

Reader§

Lectr.§

Dutt, P. N., DipinArch

Vaidya, V. B., DipinArch

Sankaralingam, S., BE(Civil) CE

Kacker, R. N., DipinArch

Saini, B. S., BA BArch

Chhibber, T. R., DipinArch

Vazirani, V. N.

### Bengali

Choudhuri, N. N., MA DLitt *Calc.*,

Shastri

Ghosh, Mrs. Nandita, MA

Marzumdar, M. N., MA

Chatterjee, A., MA

Mitra, B. N., MA

Bardan, Miss S., MA

Sen, Mrs. Shova, MA

Chatterjee, S. K., MA

Prof.§

(LSR)

(R)

(D)

(H)

(LSR)

(I)

(D)

### Anthropology

Biswas, P. C., MSc *Calc.*, PhD *Berl.*

Mehra, J. D., MSc

Tiwari, S. C., MSc

Sharma, A.

Mong, I. P. S., MSc

Prof.§

Lectr.§

Lectr.§

Lectr.§

Lectr.§

Lectr.§

### Arabic

Fariq, K. A., MA PhD *Alig.*

Abidi, S. A. H., MA PhD

Reader§

Lectr.§

### Biology

Bali, P. N., MSc

Gian Chand, MSc

Singh, Kulleir, MSc

Kaul, P. M., MSc

(HR)

(H)

(K)

(DB)

### Architecture (DP)

Ghuman, Mrs. Elizabeth S., BSc(Arch)

\* Member of the Association of Universities of the British Commonwealth

Nagar, S. K., MSc	(D)	Kar, K. R., PhD	Lectr. §
Oberoi, N. K., MSc	(HR)	Singh, R. P., MSc	Lectr. §
Dass, P., BSc LLB	(H)	Johri, K. N., MSc	Lectr. §
Rai, K. S., MSc	(DB)	Sreeramamurthy, V. V., DSc	Lectr. §
Sandhu, R. S., MSc PhD	(K)	Mathur, H. B., MSc PhD	Lectr. §
Sehgal, S. M., MSc	(DB)	Gaur, H. C., MSc PhD	Lectr. §
Shadi Lal, MSc	(KM)	Gupta, S. R., MSc PhD	Lectr. §
Ahmad, S., MSc	(D)	Krishnamurthy, M., MSc PhD	Lectr. §
Kumar, V., MSc	(D)	Jain, A. C., MSc PhD	Lectr. §
		Mookerjee, S. K., MSc PhD	Lectr. §
		Neelakantan, S., MSc PhD	Lectr. §
		Sehgal, J. M., MSc PhD	(on leave) Lectr. §
		Aghoramurti, K., MSc PhD	Lectr. §
		Purshotam, Mrs. Kunduri V., MSc	Lectr. §
		Mittal, O. P., MSc PhD	Lectr. §
		Dhar, M. L., MSc PhD	(on leave) Lectr. §
		Venkata-Subramanian, G. B., MSc	Lectr. §
		Banerjee, N. R., MSc PhD	Lectr. §
		Ahluwalia, V. K., MSc PhD	Lectr. §
		Aggarwal, A. L., MSc Panj.	Lectr. (11)
		Jain, B. L., BSc	Lectr. (H)
		Narula, J. L., MSc	Lectr. (R)
		Suri, S. P., MSc	Lectr. (D)
		Kumria, R. L., MSc	Lectr. (D)
		Soni, P. L., MSc Panj.	Lectr. (HR)
		Multani, R. K., MSc Panj., PhD	(on leave) Lectr. (HR)

**Botany**

Maheshwari, P., Hon. DSc McG., DSc, FNI	Prof. §		
Chinoy, J. J., DIC, MSc PhD	Reader §		
Johri, B. M., DSc	Reader §		
Tandon, S. L., MSc PhD	Reader §		
Nanda, K. K., MSc PhD Bom.	Lectr. §		
Narayanaswami, S., MSc PhD	(on leave) Lectr. §		
Sanwal, B. D., MSc PhD	(on leave) Lectr. §		
Venkatesh, C. S., MSc PhD	(on leave) † Lectr. §		
Singh, V. P., MSc PhD	Lectr. §		
Mitra, G. C., MSc DPhil Calc.	Lectr. §		
Chowdhury, N. P., MSc	Lectr. §		
Mohan Ram, H. Y., MSc	Lectr. §		
Maheshwari, S. C., MSc	Lectr. §		
Sachar, R. C., MSc	Lectr. §		
Das, B. K., MSc	Lectr. (H)		
Chopra, Mrs. Naima, MSc Panj.	Lectr. (LI)		
Konar, R. N., MSc	Lectr. §		
Chopra, R. N., MSc PhD	Lectr. §		
Murgai, Miss Prem, MSc	Lectr. §		
Kanta, Miss Kusum, MSc	Lectr. §		
Singh, M. M., MSc	(K)		
Bose, Nanda, MSc	(DB)		
Khanna, K. R., MSc	(DB)		
Gupta, S. M., MSc PhD	(DS)		
6 Res. Assts.			

**Buddhist Studies**

Bapat, P. V., MA AM PhD	Prof. §
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**Chemical Engineering (DP)**

Desai, M. H., BSc PhD Lond.			
Salgar, MA BSc(Tech) Ban.			
Krishna, N. G., BSc MSc(Tech) Ban., MChE			
Vishwanathan, M. S., MS Pitt., BSc(Tech)			
Wagh, N. H., BSc(Tech) Bom., MS Wash.			
Chawla, S. L., MSc(Tech) Panj.			
Katti, P. K., MSc PhD Bom.			
Mathur, H. N., MSc			
Shah, C. D., BSc(Tech)			
Chiplonkar, M. T., BSc(Tech)			
Narayan Das, B., MSc			
Das Gupta, S. M.	(on leave)		
Mandal, A. K.	(on leave)		
Hussain, A., MSc BScE			

**Chemistry**

Seshadri, T. R., MSc PhD, FRS	Prof. §		
Mitra, R. P., DSc	Prof. §		
Jain, B. D., PhD	Reader §		
Mathur, K. B. L., DSc Agra	Reader §		
Saharia, G. S., PhD	Reader §		
Khosla, B., MSc	Reader §		
		Kar, K. R., PhD	Lectr. §
		Singh, R. P., MSc	Lectr. §
		Johri, K. N., MSc	Lectr. §
		Sreeramamurthy, V. V., DSc	Lectr. §
		Mathur, H. B., MSc PhD	Lectr. §
		Gaur, H. C., MSc PhD	Lectr. §
		Gupta, S. R., MSc PhD	Lectr. §
		Krishnamurthy, M., MSc PhD	Lectr. §
		Jain, A. C., MSc PhD	Lectr. §
		Mookerjee, S. K., MSc PhD	Lectr. §
		Neelakantan, S., MSc PhD	Lectr. §
		Sehgal, J. M., MSc PhD	(on leave) Lectr. §
		Aghoramurti, K., MSc PhD	Lectr. §
		Purshotam, Mrs. Kunduri V., MSc	Lectr. §
		Mittal, O. P., MSc PhD	Lectr. §
		Dhar, M. L., MSc PhD	(on leave) Lectr. §
		Venkata-Subramanian, G. B., MSc	Lectr. §
		Banerjee, N. R., MSc PhD	Lectr. §
		Ahluwalia, V. K., MSc PhD	Lectr. §
		Aggarwal, A. L., MSc Panj.	Lectr. (11)
		Jain, B. L., BSc	Lectr. (H)
		Narula, J. L., MSc	Lectr. (R)
		Suri, S. P., MSc	Lectr. (D)
		Kumria, R. L., MSc	Lectr. (D)
		Soni, P. L., MSc Panj.	Lectr. (HR)
		Multani, R. K., MSc Panj., PhD	(on leave) Lectr. (HR)
		Puri, Miss Vimla, MSc Panj., PhD	Lectr. (I)
		Mathew, Miss Thankama, MSc	Lectr. (LI)
		Singh, Gurmukh, MSc	Lectr. (K)
		Rama Krishna Rao, M. V., MSc	Lectr. §
		Ganguli, A. K., MSc	Lectr. §
		Chander, A., MSc	(DB)
		Budhiraja, MSc	(DB)
		Chhiber, S. S., MSc	(HR)
		Dewan, R. K., MSc	(DB)
		Ganju, Miss Krishna, MSc	(LI)
		Gupta, N. K., MSc	(R)
		Singh, Inderjeet, MSc	(K)
		Iswaran, V., MSc	(CCA)
		Kumar, C. L., MSc	(DB)
		Luthra, R. K., MSc	(KM)
		Mathai, Miss Suman, MSc	(LI)
		Matto, B. N., MSc	(KM)
		Mehra, H. S., MSc	(11)
		Miter, B., MSc	(R)
		Sharm, B. K., MSc	(H)
		Vadehra, K. L., MSc	(D)
		Vasandeni, M. P., MSc	(KM)
		Grewal, G. S., MSc	(KH)
		Bal, G. S., MSc	(KH)
		Kumari, Miss L., MSc	(LI)
		Kohli, R. M., MSc	(R)
		Gupta, S. K., MSc	(D)
		Narang, A. S., MSc	(D)
		Singh, H., MSc	Lectr. §
		Thakur, R. S., MSc	Lectr. §
		Ramanathan, J. D., MSc	Lectr. §
		Sareen, P. S., MSc	Lectr. §
		Krishnamurthy, H. G., MSc	Lectr. §
		Dharamarha, O. P., MSc	Lectr. §
		Atreyi, Miss Mahalakshmi, MSc	Lectr. §
		Jain, D. S., MSc PhD	Lectr. §
		Chandra, K., MSc	Lectr. §
		Kumari, Lalita, MSc	(LI)

Pruthi, B. N., MSc  
 Krishnan, N. R., MSc  
 Sanduja, M. L., MSc  
 Rehan, S. D., MSc  
 6 Res. Assts.

### Commerce and Geography

Vaish, J. N., MA *Calc.*, FCA  
 Shukla, M. C., BA BCom *Birm.*  
 Sadanah, K. L., BA *Lond.*, MA *Panj.*  
 Sahai, V., BA, FCA  
 Gupta, C. B., MA BCom *Agra*  
 Kapoor, M. C., MCom *Agra*  
 Grewal, T. S., MA *Calc.*  
 Gautam, J. K., MCom *Alld.*  
 Ghose, P. K., MCom  
 Gupta, L. C., MCom  
 Bhattacharya, M. K., MA *Calc.*  
 Talwar, P. P., MCom  
 Maheshwari, R. P., MCom  
 Qureshi, I., MCom  
 Tandon, B. N., PhD *Munich*, MA(Com)  
 Gideon, J. S., BCom MA  
 Jam, M. M., BCom MA  
 Bhargava, B. L., BCom MA *Alld.*  
 Ray, N. C., MA  
 Bhushan, Y. K., MCom  
 Chandra, S. K., MCom  
 Kapoor, N. D., MCom  
 Kapoor, S. S., MCom  
 Khanna, K. K., MA  
 Laxmi Narain, MCom  
 Lall, B. B., MCom PhD  
 Verma, L. N. M., MCom  
 Kapoor, A. N., DPhil *Alld.*  
 Sanyal, D. K., MA  
 Misra, M. L., MA MCom  
 Tvagi, C. L., MCom  
 Gupta, P. C., MCom MEd  
 Grover, R. K., MCom  
 Nigam, R. S., MCom  
 Vinod, P., MCom

### Economics

Ganguli, B. N., MA PhD *Calc.*  
 Raj, K. N., MA  
 Dhar, P. N., MA  
 Mukherji, P. K., MA DPhil *Oxon.*  
 Bhate, D. H., MSc PhD  
 Pant, N. K., MCom  
 Ghosh, A. B., MA  
 Nag, S. P., MA  
 Dar, R. K., MA  
 Anantha Rao, S. R., MSc  
 Sivasubramaniam, S. M. A., MSc  
 Ghose, D. C., MA PhD *Panj.*, MSc *Lond.*  
 Singh, Balbir, MA  
 Bhatia, B. M., MA  
 Mathur, K. P., MA  
 Maheshwari, S. K., MA  
 Kaushik, O. P., MA  
 Agarwal, A. N., MA *Alld.*  
 Sehgal, B. R., MA *Panj.*  
 Choudhury, G. S. R., MA

(SD) Johri, C. K., BCom MA (R)  
 (DB) Narain, R., MA (C)  
 (DB) Andley, K. K., MA (C)  
 (R) Rao, D. K., MA (C)  
 Sundaram, K. P. M., MA (C)  
 Chaudhuri, N. R., MA *Dacca* (D)  
 Krishna, R., MA (D)  
 Mark, I. R., MA *Agra* (D)  
 Ghosh, R. N., MA (D)  
 Khatri, J. D., MA *Panj.* (HR)  
 Krishnamurthy, B. V., MA PhD (DSE)§  
 †(C) Kausukutty, Miss C. K., MA *Madr.*,  
 MSc *Lond.*, LT (I)  
 (C) Bose, Miss Manta, MA BT (I)  
 (C) Mehra, Mrs. Shakuntala, MA (I)  
 (C) Srivastava, Miss Sneh Lata (I)  
 (R) Gupta, Miss Shashi, MA (LSR)  
 (C) Jankiamma, Miss A. C., MA *Madr.* (M)  
 (D) Sastri, Miss Kanthimathi, MA MLitt  
 (on leave) (M)  
 (DP) Dhar, Mrs. Usha, MA *Alld.* (DSE)§  
 (D) Mehta, D. D., MA (KM)  
 (DP) Maskin, B. S., MA (KM)  
 (DP) Singh, U., MA (K)  
 (DP) Khanna, J. S. (K)  
 Bhandari, S. K. R., MCom LLB PhD (DSE)§  
 Bhatia, H., MA (DSE)§  
 (C) Bhalla, Miss Jai Rani, MA (M)  
 (C) Bose, A., MA (KM)  
 (HR) Singh, Dalip, MA (KM)  
 (K) Das Gupta, A., MA BCom Prof.§ (DSE)  
 (D) Dham, P. S., MA (K)  
 (C) Desai, Miss P. T., MA (M)  
 (C) Jangir, G. C., MA (HR)  
 (R) Jayalaxmi, Miss R., MA BEd (M)  
 (DP) Singh, J. J., MA *Panj. & Delhi* (K)  
 (DP) Kapoor, S. P., MA (DB)  
 (DP) Kudsia, J., MA (HR)  
 (HR) Manmohan, H. K. S., MA MSc *Lond.* (DSE)§  
 (DAV) Mathur, Mrs. S., MA (I)  
 (SD) Maglani, Miss Sarla, MA (LSR)  
 (DAV) Minocha, V. S., MA †(DSE)  
 (DAV) Moim-Uddin, MA (D)  
 Mukherjee, S. K., MSc *Lond.* (C)  
 Pylee, M. V., MA LL.M DLitt Reader (DSE)  
 Raghavachari, Miss R., MA (M)  
 Rao Madhav, BA *Camb.* (S)  
 Reader§ Kumar, R., MSc (DAV)  
 Rohatgi, Miss R., MA (I)  
 Reader§ Sharma, Miss I., MA (I)  
 (DSE)§ Sood, P. L., MA BCom (C)  
 Reader§ (DSE) Thavaraj, M. J. K., MA (S)  
 (DSE)§ Unnithan, T. K. N., MA LL.B DLitt (DSE)§  
 (DSE)§ Khushro, A. M., MA PhD (DSE)§  
 (DSE)§ Kulkarni, H. G., MA (R)  
 (DSE) Talwar, P. P., MCom (D)  
 (S) Rani, Miss K., MA (M)  
 (S) Pal, B. N., MA (KH)  
 (H) Gourie, Mrs. S., MA MEd (LI)  
 (H) Bhattacharya, A., MA †(DSE)§  
 (H) Bova, R. N., MA †(DSE)§  
 (H) Bose, Mrs. J., MA (I)  
 (R) Mahavir, M. A., PhD (DAV)  
 (R) Nagpal, Miss S., MA (I)  
 (R) Girdhar, V. P., MA (DB)

Ashta, M. C., MA  
Singh, Balwant, MA  
Mehta, S. C., MA  
Gandhi, V. P., MA  
Soni, P. N., MA  
Sharma, Miss Indra, MA  
Balchandani, Miss N. G., MA  
Bhargava, B. K., MA  
Dutt, R., MA  
Kumat, R. S., MA  
Seth, K. L., MA

### Education

Pires, E. A., MA *Bom. & Lond.*, PhD *Bom.* (CIE)  
Roy, P. K., MA *Calc.*, BEd *Edin.* (CIE)  
Mukhopadhyay, S. N., MA PhD (CIE)  
Shanker, U., MA *Lond.* (DIE)  
Dutt, Miss Suniti, MEd PhD (CIE)  
Chari, Miss Ahalya, MA MEd *Ill.* (CIE)  
Mehrotra, R. N., MA BEd (CIE)  
Pasrich, Miss Prem, MA PhD *Minn.* (CIE)  
Gupta, M., MA BCom *Dacca*, BT (CIE)  
Shukla, Mrs. S., MA MEd (CIE)  
Uppal, V. P., MA MEd (CIE)  
Rehman, N. A., MA PhD (CIE)  
Bhatnagar, Mrs. Sarla, MA MEd (CIE)  
Tara Bai, Mrs. Birjur, MA (I.I)  
Gourie, Mrs. Subramaniam, MA *Brist. & Madr.*, LT *Madr.* (I.I)  
Adiseshiah, Mrs. Helen E. M., MA *Madr.*, DipEd *Lond.* (on leave) (LI)  
Roy, Miss Bina, BA BT *Calc.* (LI)  
Grewal, Mrs. Rajwaul, BA MEd (LI)  
Nigam, D. S., MSc MEd (CIE)  
Pandey, B. N., MA MEd (CIE)  
Verma, L. N., MA BT (CIE)  
Koshy, Mrs. M., MA DEd *Col.*, BA LT MA (Ed) (CIE)  
Sharma, P. D., MEd *Harv.* (CIE)  
Gupta, Mrs. S., MA BEd (CIE)  
Rajpal, Mrs. L. P., MA BEd (CIE)  
Sharma, S. S., MSc BEd (CIE)

### Engineering, Civil

Vazirani, V. N., BE (Civil) (DP)

### Engineering, Electrical (DP)

Venkataramania, T. R., BSc (ElectEngg) *Mys.*  
Narayanan, R. C., MSc *Manc.*  
Singh, B., MSc BSc (Engg) *Ban.*  
Nayak, U. L., BSc (Engg) *Ban.*  
Rao, S. R., BE *Madr.*  
Sharma, B. D., DipChemEngg *Ban.*  
Singh, Gurbaksh, DipEngg *Panj.*  
Ramabhadran, S., MA DiplElectCommn  
Krishnamurthy, C., BSc BE MTech  
Uppal, S. L., BE (Elec)

### Engineering, Mechanical (DP)

Sen, S. C., BSc *Glas.*  
Moudgill, J. N., BSc (Engg) *Ban.*  
Luthra, S. P., BSc (Engg) *Panj.*, PhD  
Bimberahw, J. R., BSc (Engg) *Panj.*

(DS) Upasani, L. R., BSc (Engg) *Ban.*  
(DS) Trikha, S. N., DipEngg  
(DS) Mazumdar, Miss Illa, BE  
(HR) Ghosh, B. G., BE (Mech)  
(K) Nagarajan, T. K.  
(LSR) Verma, T. C.  
(LSR) Narayan Das, B., MSc  
(DAV) Bakshi, N. P., BE (Mech)  
(SD) Sareen, B. K., BE (Mech)  
(SD) Bhatia, I. N., BSc (Mech)  
(R) Kalra, J. C., BE (Mech)  
Bhola, M. M., BSc (Mech)  
Singh, G.  
Khosla, K. K., BE (Mech)  
Mandal, M. L., BME MS (Mech)  
Ballaney, P. R., BE

**Engineering, Textile, see Textile Engin.**

### English

Dastoor, P. E., MA DLitt Prof. §  
Bahadur, U., MA PhD *Edin.* Reader §  
Bhalla, M. M., MA *Panj.* (S)  
Jarvis, Rev. W. A. W., MA *Oxon.* (S)  
Ramsden, W. S., MA LLB *Luck.* (on leave) (S)  
Sood, P. C., MA *Luck.*, BA *Oxon.* (H)  
Gupta, R. R., MA (II)  
Raina, S. P., MA *Panj.* (H)  
Nath, V., MA *Panj.* (H)  
Mitra, B. N., MA (II)  
Verma, P. C., MA (H)  
Sharma, G. N. (H)  
Desai, R. W. (II)  
Gupta, B. B., MA (R)  
Chopra, R. P., MA (R)  
Sharma, R. C., MA (R)  
Ram, M., MA (C)  
Verma, B. L., MA (R)  
Chadha, G. L., MA (R)  
Chadha, P. L. (R)  
Mathur, P. K., MA (C)  
Mukerjee, G. C., MA *Luck.* (C)  
Lall, K., MA (C)  
Kalia, B. K., MA *Panj.* (D)  
Chatterji, A. K., MA (D)  
Ghoshe, M. N., MA *Dacca* (D)  
Sarkar, B. K., MA *Calc.* (D)  
Kaul, A. N., MA *Panj.* (D)  
Sen, D. K., MA (D)  
Pillai, Mrs. B. P., MA *Madr.* (I)  
Thomas, Miss Sarma, MA *Madr.*, LLB (I)  
Gorowara, Miss Krishna K., MA (I)  
Khanna, Miss Urmila, MA (I)  
Padhi, Miss Shanti, MA (I)  
Parkash, G., MA *Panj.* (HR)  
Narain, I., MA *Panj.* (HR)  
Ram, T., MA (HR)  
Ray, S. N., MA *Calc. & Lond.*, PhD *Lond.* (HR)  
Guha, J. P., MA (HR)  
Vaid, K. B., MA *Panj.* (HR)  
Jena, B. A., MA (S)  
Bartholomew, Mrs. R., MA (I)  
Adiseshiah, Miss S. K. (M)  
Ram, M., MA (KM)  
Singh, A., MA (KH)

Singh, G. D., MA	(KH)	Swarup, Mrs. H. Lata, MA	(K)
Singh, N., MA	(KH)	Roy, Mrs. P., MA	(LSR)
Sanyal, D. K., MA	(DP)	Daniels, Molly, MA	(LSR)
Kapoor, A. N., MA DPhil	(DP)	Gul, Mrs. Jyanti, MA	(LSR)
Achaya, Miss Kamala, MA Oxon. & Madr.	(M)	Paintal, Mrs. B. K., MA	(LSR)
Essauloff, Mrs. Krishna, MA Madr.	(M)	Khanna, R. K., MA	(DAV)
Parshad, Miss Pramila, MA Col. & Delhi	(M)	Bhatia, O. P., MA	(DAV)
Syngle, B. D., MA	(KM)	Om Parkash, MA	(DAV)
Kohli, R. K., MA DipJ	(KM)	Yudhishter, MA	(SD)
Singh, Gobind, MA PhD	(K)	Kochar, M. L., MA	(SD)
Adishesiah, Mrs. Helen E. M., MA Madr., DipEd Lond.	(LI)	Bajaj, U., MA	(I)
Vachher, S. L., MA	(CCA)	Haider, S., MA	(H)
Chandra, H., MA	(DB)		
Bhalla, D. S., MA	(DB)	<b>French</b>	
Sud, R. K., MA LLB	(DB)	Arduin, R., DiplinFrenchLang	Lectr.§
Kanda, K. C., MA	(DB)		
Bakshi, N. S., MA	(R)	<b>Geography, see Comm. and Geog.</b>	
Bal Krishan, MA	(DAV)		
Rose, K., MA	(NI)	<b>Hindi, see Sanskrit and Hindi</b>	
Chetsingh, R., BA Camb.	(SI)		
Das Gupta, R. K., MA Calc., DPhil Calc. & Oxon.	(II)	<b>History</b>	
Dustoor, H. P., MA PhD	(LSR)	Prasad, B., MA DLitt	Prof.§
Pal, D., MA	(KM)	Saran, P., MA PhD, FRHistS	Reader§
Dutt, Mrs. Shanti, MA DT	(M)	Raja Ram, D., MA Camb.	(S)
Goyal, D. R., MA	(KM)	Kapadia, E. R., MA Lond. & Delhi	(S)
Gupta, R. C., MA LLB PhD	(KM)	Shankland, R. I., MA Oxon.	(S)
Jain, M. P., MA	(R)	Amin, M., MA LLB Alig.	(S)
John, V. V., BA Madr. & Oxon.	(R)	Chandra, B., MA	(H)
Julka, S. P., MA	(D)	Bhandari, D. R., BA Lond.	Reader (R)
Kakaria, J. P., MA	(K)	Vashishtha, S. S.	(R)
Kapoor, S. P., MA	(D)	Mehdi, S. H., MA Luck.	(D)
Kaushik, R. K., MA	(I)	Hasan, S., MA Luck.	(D)
Kathpalia, R., MA	(D)	Ahmad, L. L., MA Calc.	(D)
Khanna, Mrs. Savitri, MA	(K)	Gandhi, S. S., MA Panj.	(HR)
Kidwai, S. A., MA	(D)	Das Gupta, Mrs. Roma, MA	(I)
Krishnasami, Mrs. S., MA Mys. & Lond.	(M)	Saxena, Mrs. Prem, MA	(I)
Mama Viloo, Mrs. K., MA	(LSR)	Kaushik, Mrs. Savitri, MA	(I)
Mukerjee, Miss A., MA	(I)	Gupta, Mrs. Indira	(I)
Muttoo, Miss Maya, MA	(M)	Thakurdas, Mrs. Indira, MA	(I)
Nehal, C. L., MA JD	(DB)	Bhutani, Mrs. Champa, MA	(I)
Nair, Miss Malathi, MA	(LSR)	Dua, Miss Shiva, MA Panj.	(M)
Narayanaswami, Mrs. Radha, MA	(K)	Mitra, Miss Roma, MA Calc.	(M)
Ojha, K. P., MA	(C)	Manchanda, Mrs. Omi, MA	(M)
Patel, Miss Nisha, MA	(M)	Sharma, Miss Krishna	(M)
Singh, Sarup, MA PhD Lond.	(KM)	Datta, V. N.	(KM)
Saksena, U., MA PhD Alld.	(LSR)	Singh, V. P.	(KM)
Vinod, S., MA	(HR)	Ashraf, K. M., MA LLB PhD	(KM)
Uttam Singh, Miss S., MA	(HR)	Kotial, H. S., MA PhD	(H)
Yunus, Mrs. L., MA	(LI)	Raghuvanshia, V. P. S., MA PhD	(R)
Zaheer, Miss Amina, BA Oxon., MA	(M)	Mathur Dayal, R., MA	(DAV)
Chatterjee, A., MA	(D)	Sawhney Singh, S., MA LLB	(K)
Kanwal Lal, MA	(C)	Sood, Miss Seva	
Williamsion, Miss O., MA	(I)	Saxena, B. B., MA	(DB)
Mohan, B., MA	(HR)	Shardana, Mrs. M., MA DLitt Oxon.	(M)
Arora, S. M., MA	(HR)	Somini, Mrs. Raman, MA Yale & Delhi, MLitt	(M)
Yadav, P. S., MA	(KM)	Urmila, Mrs. J. Rana, MA	(LSR)
Siddu, P. S., MA	(KH)	Vermani, Mrs. Lalita, MA	(LSR)
Dass, D., MA	(DAV)	Wake, Rev. H. M. W., MA Oxon.	(S)
Bhargava, P. S., MA	(DAV)	Pal, Y., MA	(HR)
Muttoo, Mrs. A., MA	(DS)	Raghunathan, N., MA	Lectr. (S)
Schgal, G. D., MA	(DS)	Panigrahi, D. N., MA PhD	(R)
Grewal, G. P. S., MA	(DS)	Kapoor, Miss U., MA	(I)
Ramji Lal, MA	(DS)	Grover, B. L., MA	(HR)



Madhok, B., MA  
 Singh, F., MA  
 Mehta, Miss A., BA *Camb.*, MA  
 Sharma, D., MA DLit  
 Gupta, Mrs. K., MA  
 Bakshi, Miss S., MA  
 Champakalakshmi, Miss R.  
 Tripathi, G. P., MA  
 Rajagopal, N., MA  
 Mathur, Miss Sarita, MA  
 Malhotra, P. L., MA  
 Sharma, K. L., MA  
 John, H. H., MA  
 Dwivedi, P. S., MA  
 Randhava, S. S., MA

(JAV)  
 (KH)  
 (LSR)  
 Reader§  
 (LSR)  
 (LSR)  
 (LSR)  
 (SD)  
 (R)  
 (JD)  
 (DS)  
 (DS)  
 (S)  
 (S)  
 (K)

**Law**

Sivasubramanian, L. R., BA ML Prof. §  
 Vardachariar, S., DCL Hon. Prof.  
 Sarkar, Mrs. Mitra, BA LLB PhD Reader §  
 Jain, M. P., LLM JSD Reader §  
 Dhar, S., BA ILM Lectr. §  
 Rohtagi, A. B., MA LLB † Lectr. §  
 Anandjee, BSc LLB Lectr. §  
 Chawla, T. P. S., BA LLB *Camb.* † Lectr. §  
 Shrimali, M. L., MA BCom LLM Lectr. §  
 Bedi, A. S., BA LLB Lectr. §  
 Tripathi, P. K., BSc LLM Lectr. §  
 Parkash, C., MA LLB Lectr. §  
 Darja, K. H. R., MA BL (on leave) Lectr. §  
 Singh, D. K., LLM (on leave) Lectr. §  
 Misra, V. D., MA LLB † Lectr. §  
 Kagzi, M. C., BSc LLM Lectr. §  
 Nigam, K. K., LLM Lectr. §  
 Verma, V. P., LLM Lectr. §  
 Saxena, J. N., LLM Lectr. §  
 Walia, R. S., LLM Lectr. §  
 Sirinivasamurthy, A. K., BA LLM Lectr. §  
 Mehta, K. B., MA LLB † Lectr. §  
 Prakash, A., LLB PhD Lectr. §  
 Rohatgi, K. B., LLM JSD Lectr. §  
 Sen, G. M., LLM Lectr. §  
 Ponnuswami, K., LLM Lectr. §  
 Sivaramayya, B., LLM Lectr. §  
 Kelkar, R. V., LLM Lectr. §  
 Roa, N.  
 Bhargava, P. D., MA LLB  
 2 Res. Assts.

**Home Science (I.I)**

Tarabai, Mrs. Birjur, BA LT *Mad.*,  
 BSc(HouseholdSci) *Lond.* Reader  
 Doongaji, Miss Sherie, MSc *Wis.*  
 Adisesiah, Mrs. Helen E. M., MA *Mad.*,  
 DipEd *Lond.*  
 Roy, Miss Bina  
 Sampson, Annie, DipHomeSc DipHyg TD  
 Dantyagi, Mrs. Sushila, BA LT TD  
 DipHomeSc *Mad.*  
 Belliapa, K., MB BS DGO *Mad.*  
 Briant, M. A., DipDomSc  
 Deshpande, Mrs. Ranshini  
 Gourie, S., MA LT *Mad.*, MEd *Brist.*  
 Grewal, R., MEd  
 Kegal, M. B., MB BS  
 Kapur, Miss Krishna, BA TDD  
 Mathur, Miss Nirmal, BSc(HomeSc)  
 Randhawa, S., BA DipHomeSc TDD  
 Talwar, Mrs. Tej, BSc(HomeSc) BEd  
 Deulkar, Miss D., MSc(HomeSc) *Syr.*,  
 PhD *Corn.*  
 Mathur, Miss V., BSc  
 Khanna, Mrs. S., MSc PhD BEd

**Library Science**

Das Gupta, S., MA *Camb.* Prof. §  
 Kaula, P. N., MA BLibSc DipLibSc Reader §  
 Ramabhadran, S. † Lectr. §  
 Puranik, K. D. † Lectr. §  
 Dalal, K. S., MA DipLibSc Lectr. §

**Mathematics**

Behari, R., MA PhD ScD *Camb.* Prof. §  
 Mishra, R. S., MSc PhD Reader §  
 Srivastava, T. P., MSc MA PhD Reader §  
 Gupta, H. C., MSc PhD Reader §  
 Gulati, R. L., MSc PhD Lectr. §  
 Banerjee, S. K., MSc Lectr. §  
 Bhattacharya, P. B., MSc *All.*, PhD (S)  
 Sircar, S. C., MA *Camb.* (S)  
 Nagpaul, S. R., MA (S)  
 Kapoor, J. N., MA (H)  
 Shaha, S. R., MA (H)  
 Mitra, J. N., MA (R)  
 Gupta, P. D., MA (R)  
 Saxena, C., MA (R)  
 Singhal, M. K., MA (R)  
 Mehra, H. R., MA *Panj.* (D)  
 Bhatnagar, K. B. (D)  
 Rattan, V., MA (C)  
 Gupta, Mrs. Sushila (I)  
 Narayan, S., MA *Panj.* (HR)  
 Mehra, B. B., MA (HR)  
 Gorowara, K. K., MA (HR)  
 Thakurdas, Miss Veda, MA *Camb. & Panj.* (M)

**International Studies**

Agwani, M. S., PhD  
 Aleem, A., PhD  
 Appadorai, A., PhD  
 Baral, L. S., MA  
 Bradley, P., PhD  
 Chatterji, B. R., PhD DLitt  
 Desai, W. S., MA  
 Inoue, M., Grad *Tokyo*  
 Karunakaran, K. P., MA  
 Mookerjee, S., PhD *Harv.*  
 Murakami, M., Grad *Tokyo*  
 Sirkar, P. K., PhD  
 Tara Chand, PhD  
 Wright, Q., PhD *Ill.*  
 Pannikar, K. M.  
 Venkataramani, M. S., MSc PhD  
 Hasani, A. B., MA *Luck.*  
 Corbett, P. A., MA LLD  
 Reynolde, P. A., MA *Oxon.*  
 Ueda, T., LLD  
 Iwamura, S., BA *Waseda*

Bhar, Miss Ramala, MA Calc.	(M)	Sharma, K. B., MB BS Panj.	Lectr.
Singh, Mrs. Sardar M., MA	(M)	Bazaz, Mrs. G., MB BS	Lectr.
Pandey, Miss Nirmal, MA PhD	(M)	Miglani, B. D., BPharm	Lectr.
Pahwa, Miss S., MA	(KM)	Ahuja, S., MB BS	Lectr.
Kaul, T. N., MA Panj.	(KM)	Prasad, K., MB BS Bihar	Lectr.
Makhija, M. T., MA	(KM)	Singal, S., MB BS Panj.	Lectr.
Jaun, B. S., MA	(H)	Tandon, H. D., MD	(PCI)
Singh, W., MA	(K)	Sikand, B. K., DPH Lond., MB BS	(PCI)
Malik, S. C., MA	(K)	Rao, P. U. M., TDD Wales, MB BS	(PCI)
Singh, R., MA	(K)	Joseph, T. J., PMR Rome, BA MB BS	(PCI)
Roy, H. S., MA	(DB)	Achayya, Mrs. S., MB MS DGO, FRCS	(PCI)
Kakar, R. L., MA	(DB)	Gaddekar, N. E., MB BS Bom.,	
Aggarwal, R. K.	(DP)	DMRE Camb.	(PCI)
Ahuja, J. C., MA	(D)	Dhanda, P. C., MRCP	(PCI)
Carvell, H. T., BA Camb.	(S)	Sen, S. K., FRCS	(PCI)
Gupta, J. D., MA	(K)	George, A. T., MB BS, MRCP,	
Halder, Mrs. G., MA PhD	(I)	FRCSed	(PCI)
Shankar, H., MA	(D)	Singh, S. I., MD	(LHMC)
Kumar, Miss Inderjeet, MA	(HR)	Madan, P., MB BS	(LHMC)
Jaun, P. C., MA	(H)	Mullick, V. D., PhD Chic., MB BS	(LHMC)
Saroop, K., MA	(HR)	Gupta, D. C., MD	(LHMC)
Laithra, S. M., MA	(LSR)	Pathak, L. R., MB MS Panj., FRCSEd	Lectr.
Prakash, Mrs. M.	(I)	Kaul, Mrs. M., MB BS	Lectr.
Majumdar, Miss Sanigdha	(LSR)	Pathak, S. N., MB BS Panj., MRCPEd	Lectr.
Rastoogi, K. S.	(K)	Chandra, Mrs. K., MD Agra, MB BS	Lectr.
Shanti Narain, MA	(DAV)	Nath, Mrs. S., MB BS Panj., FFARCS	Lectr.
Abrol, M. I.	(DAV)	Grover, Miss S., MB BS DMR	Lectr.
Singh, O., MA	(KII)	Bhargava, Mrs. S., MB BS DCP	Lectr.
Nijhavan, Miss S., MA	(LSR)	Das, P. K., MD BS MSc	Lectr.
Gupta, Miss L., MA	(LSR)	Singh, B., MB BS Panj., MRCP	Lectr.
Prakash, S., MA	(DAV)	Mohindra, S. K., MB BS	Lectr.
Malik, J. L., MA	(DAV)	Paintal, P. K., MB BS Agra	Lectr.
Jaggi, R. K., MA PhD	(SD)	Khosla, Mrs. S., MB BS	Lectr.
Gupta, R. C., MA	(SD)	Malhotra, Mrs. P., MB BS	(LHM)
Jaun, J. L., MA	(II)	Gujral, V. V., MB BS	(LHM)
Ghai, G. L., MA	(H)		
Vidya Prakash, MSc MA	(DS)		
Sharma, N. K., MA	(DS)		
Singh, Labh, MA	(DS)		

### Medicine

Viswanathan, R., BA MD TDD, MRCF	Reader
Patil, H. B., MD Bom., DipBact Manc.	
& Lond., DTM&H Lond.	(LHMC)
Choudhuri, M., MB BS Panj., FRCS	(LHMC)
Kohli, R., MB BS Panj., DMRE Camb.	
	(LHMC)
Achaya, S., MB MS DGO Madr., FRCS	
	(LHMC)
Malkani, P. K., MB BS Panj., FRCOG	(LHMC)
Padmavati, S., MB BS Rangoon, MRCP	
	(LHMC)
Dass, A., MB BS Panj.	(LHMC)
Bhatia, S. L., BA MB BChir Camb.	(LHMC)
Itchaporia, Mrs. S.	(LHMC)
Mathias, J., MB MS DGO Madr.	(LHMC)
Malhotra, C. L., MD BS	(LHMC)
de Monte, A. J. H., DipBact Manc.	(PCI)
Shivpuri, D. N., MD Luck., DTD	(PCI)
Venkitasubramanian, T. A., MSc PhD	(PCI)
Chakravarty, S. C., MB MS(Med) Penn.	(PCI)
Bikram, Mrs. B., MB BS	Lectr.
Kaur, Mrs. B., MB BS Panj.	Lectr.
Sud, Mrs. V., BDS Panj., MSD Minn.	Lectr.

### Nursing (N)

Buchanan, Edith, BA DEd	Reader
Mathews, Gwen H.	
Majumdar, Miss Kamla	
Peareylal, Miss Sarla	
Sulochana, Miss Aroon V.	
Mascarenhas, Miss Melita	
Joseph, Pansy	
Gomez, Edna	
Kumari, Miss Raj, MA	
Sarathy, Miss Prema	
Sound, Miss Kartar K.	
Bhatia, B. D., MA MED	
Alleykutty, Miss K. P.	
Bhattacharya, Miss Sati, BScN	
Nagrath, Miss Urmila	
Chabook, Mrs. H., Cert in Nursing Admin	
Francis, Miss M. R., BScN	
Gupta, Miss S. K., BScN	
Visweswari, A., BScN	
Buchanan, E., DEd BA Dipl in Teaching & Supervision	
Thomas, Mrs. A., STDipl	
Madhuri, Miss U. P.	
Sood, Miss S., BSc	
Bala, G. R., BSc	
Seethalakshmi, Miss A., BSc	
Bhaduri, Miss A., BSc	

Ghosh, Miss B., BSc  
 Iyer, Miss M., BSc  
 Bains, Miss S. K., BSc  
 Beant Kaur, BSc  
 Dingley, H. B., MB BS TOD  
 Balakrishnan, S., MB BS, FRCPCan  
 Goel, P. P., MB BS, FRCSEd  
 Vasudeva, Y. N., MB BS DPH  
 Pasricha, Miss K., MD BS  
 Bedi, A. N., BSc MD BS

### Punjabi

Kohli, S. S., MA PhD  
 Singh, Gurbaksh  
 Uppal, S. S., MA  
 Ashta, D. P., MA  
 Singh, Ram, MA  
 Singh, Balwant, MA  
 Singh, B. S., MA  
 Singh, Joginder, MA  
 Kaur, Mrs. Inder, MA

### Persian and Urdu

Fariq, K. A., MA PhD  
 Faruqi, K. A., MA PhD *Agra*  
 Abidi, S. A. H., MA PhD *Agra*  
 Siddiqi, Z. A.  
 Sarup, B., MA MOL  
 Renjen, C. R., MA  
 Musavi, M. H., MA *Alld.*  
 Aizazi, A.-L., MA  
 Vashishta, S. P., MA  
 Bedi, K. S., MA  
 Khaliq, A., MA  
 Gufram, Mrs. Zaidi S., MA  
 Sodhi, J. S., MA  
 Sharma, R. C., MA  
 Ansari, N. H., MA  
 Abidi, S. A. H., MA PhD *Agra*,  
 UAMK *Alld.*  
 Abdul, Smi  
 Qureshi, M. U. R., MA  
 Vaseem, Z. H., MA

### Philosophy

Banerjee, N. V., MA *Calc.*, PhD  
 Ray, B. N., MA PhD  
 Bose, S. K., BA *Camb.*, MA  
 Saxena, S. K., MA  
 Chand, P., MA  
 Das Gupta, Miss Basanti, MA *Calc.*  
 Sherjung, Mrs. Nirmala, MA BT  
 Chakravarty, Mrs. Nomita, MA  
 Sen, Miss Krishna  
 Kaul, Miss Preeti  
 Begg, M. M., MA  
 Basit, A., MA *Alig.*  
 Halidar, M. K., MA PhD *Lond.*  
 Pandeya, A. N., MA *Luck.*  
 Pal, Mrs. Usha, MA  
 Bir, K., MA *Panj.*  
 Thomas, Mrs. M. A.  
 Ahluwalia, Mrs. V. W., MA BT  
 Bali, Mrs. R. N., MA  
 Chatterjee, Mrs. M., MA

Das Gupta, Miss M., MA BT (I)  
 Khan, S. A., MA MED (D)  
 Sena, Miss Bimla (LSR)  
 Jain, Miss Sharda, MA LLB PhD (LSR)  
 Ghosh, S. P., MA DPhil Lectr.§  
 Gupta, R. K., MA DPhil *Bonn* (S)  
 Kaul, B. N., MA (R)  
 Bhatia, V. D. (NI)  
 Gupta Sen, Mrs. L. (NI)  
 Ansari, I., MA LLB (D)  
 Das Gupta, P., MA (LSR)  
 Roy, Mrs. Archana, MA (LSR)  
 Upadhyaya, Miss R. K., MA (JD)  
 Hay, K. M. A., MA (DS)

### Physics

Kothari, D. S., MSc PhD, FNI Prof.§  
 Majumdar, R. C., DrPhilNat, FNI Prof.§  
 Kichlu, P. K., DSc, FNI Prof.§  
 Auluck, F. C., PhD DSc *Panj.*, FNI Prof.§  
 Rai, R. N., MSc DPhil *Alld.* Reader§  
 Saha, N. K., MSc DPhilNat, FNI Reader§  
 Verma, A. R., PhD Reader  
 Datta, G. L., MA *Calc.*, PhD *Gött.*

Reader (HR)

Bhomick, B., MSc PhD Lectr.§  
 Singh, Thakur, MSc Lectr.§  
 Choudhury, M., MSc Lectr.§  
 Nandi, S. K., MSc Lectr.§  
 Ram, S., MSc Lectr.§  
 Singh, H., MSc Lectr.§  
 Ram, M., MSc PhD Lectr.§  
 Kishore, J., MSc Lectr.§  
 Sagar, Mrs. Nirmala D., MSc Lectr.§  
 Chowdhury, K. D., MSc PhD (on leave) Lectr.§  
 Machwe, M. K., MSc (on leave) Lectr.§  
 Saxena, R. C., MSc Lectr.§  
 Gopalakrishnan, K., MSc PhD Lectr.§  
 Bajjal, J. S., MSc Lectr.§  
 Nanda, V. S., MSc PhD Lectr.§  
 Prakash, S., MSc PhD Lectr.§  
 Bhagat, S. M., MSc PhD (on leave) Lectr.§  
 Talwar, S. P., MSc Lectr.§  
 Trikha, S. N., MSc Lectr.§  
 Singh, K. K. Lectr.§  
 Chandra, R., MSc Lectr.§  
 Mathur, P. C., MSc Lectr.§  
 Bajaj, K. K., MSc Lectr.§  
 Kawatra, M. P., MSc Lectr.§  
 Pathria, R. K., MSc PhD Lectr.§  
 Puri, A.-N., MSc Lectr. (H)  
 Sarup, D., BSc Lectr. (H)  
 Katti, P. K. Lectr. (DP)  
 Mishra, V. M., MSc (H)  
 Gupta, J. B., MSc (R)  
 Chopra, A. P., MSc (R)  
 Bhasin, C. J., DPhilNat *Jena*, MSc, FNI (D)  
 Lal, P., MSc (D)  
 Ansari, S. M. R., MSc (D)  
 Bhatia, G. D. S., MSc (D)  
 Kumar, S., MSc (HR)  
 Lakhani, M. P., MSc (KM)  
 Puri, V. P., MSc (KM)  
 Jerath, S. K., MSc (KM)  
 Balain, K. S., MSc (KM)

Ludra, Miss K., MSc  
Singh, H., MSc  
Singh, T., MSc  
Puri, B. S., MSc  
Kapur, I. S., MSc  
Pasricha, V. N., MSc  
Kumar, K., MSc  
Gulati, H. R.  
Vedavelli, Miss P.  
Bhatia, V. B., MSc  
Vidya Prakash, MSc  
Yash Paul, MSc  
Deepak, K., MSc  
1 Res. Asst.‡

### Political Science

Chacko, C. J., MA PhD, FRHistS  
Singh, Harnam, MA LLB  
Dwarkanadas, R., MA PhD  
Sharma, B. S., MA PhD  
Bains, J. S., MA PhD  
Agarwal, N. N., MA  
Agarwal, R. N., MA  
Anand, P. L., MA  
Gupta, N. L., MA  
Singh, Jaswant, MA  
Khanna, V. N., MA  
Mathur, R. N., MA LLB PhD  
Mehta, Miss Aparna, MA  
Misra, K. K., MA DipPubAdm  
Nigam, S. R., MA PhD  
Pal, S., MA  
Singh, Randthir, MA  
Sankhdar, M. M., MA  
Suri, C. L., MA  
Thakurdas, F. S., MA  
Vohra, M. L., MA  
Wigj, T. R., MA  
Wake, Rev. H. M. W., MA Oxon.  
Lal, H., MA  
Luthra, Miss B., MA  
Gupta, Miss N., MA  
Anand, M. N., MA  
Gupta, Miss S., MA  
Bahl, A. K., MA LLB  
Grover, V., MA  
Pillai, R. C., MA LLB  
Bhardwaj, Mrs. S., MA

### Russian

Chakravorty, C. N., BA  
Favrin, D. A.  
Sharma, Mrs. Hildegund  
Mukerjee, G.  
1 Tutorial Asst.

### Sanskrit and Hindi

Choudhuri, N. N., MA PhD Calc.,  
Shastri Kavya-Vyakar Tirtha  
Nagaich, N., MA DLitt  
Sinha, Mrs. Savitri, MA PhD  
Sanatak, V., MA PhD  
Singh, U. B., MA PhD  
Yogi, S. B., MA Shastri

(LI)	Arya, V., MA	(S)
(KH)	Ojha, D., MA PhD	(H)
(KH)	Ashrey, R., MA	(H)
(DB)	Sharma, G. R., MA	(R)
(DB)	Saroj, B. B., MA	(R)
(DB)	Nigam, S. N., MA	
(DB)	Jain, V. K., MA PhD	(D)
Lectr. (HR)	Bhatt, B. N., MA <i>Agra</i> , PhD	(D)
Lectr. (LI)	Gautum, M. M., MA PhD	(D)
(SD)	Srivastava, Mrs. Sneh, MA	(I)
(DS)	Ambeika, Mrs. Sushila, MA	(I)
(DS)	Bhatt, Miss Sita, MA	(on leave) (I)
(DB)	Debv, Miss Nomita, MA	(I)
	Narain, Mrs. Sushma, MA	(I)
	Shiromini, Mrs. Asha, MA	(I)
	Prakash, O., MA PhD <i>Agra</i> , Shastri <i>Panj.</i>	(HR)
	Chaudhary, S. D., MA Shastri <i>Panj.</i> , PhD	(HR)
Prof.‡	Joshi, R. V.	Reader‡
Reader‡	Chaubey, M. N.	Lectr.‡
Reader‡	Shastri, I. C.	Lectr.‡
Lectr.‡	Pandey, Mrs. U., MA PhD	(IP)
(H)	Mathur, Miss R., MA	(IP)
(R)	Saroop, R., MA Vidya Vachaspati	(HR)
(KM)	Gopal, R., MA PhD	(HR)
(KM)	Mathur, Mrs. Shanti, MA <i>Raj.</i>	(M)
(K)	Sanghi, Mrs. Kamla, MA <i>Calc.</i>	(M)
(DB)	Gupta, Mrs. Vimla, MA	(M)
(K)	Sharma, Miss Shakuntala, MA	(M)
(LSR)	Chugh, S. P., MA	(KM)
(H)	Singh, Harbhajan, MA	(K)
(R)	Awasthi, B. B., MA	(K)
(D)	Kumar, M., MA	(K)
(D)	Gupta, S. C., MA	(DB)
(H)	Chaunbey, M. N., MA	Lectr.‡
(KM)	Bali, T. N. M., MA	(KM)
(KM)	Bimla, Miss Rani, MA	(N)
(C)	Ram Singh, C., MA	(K)
(R)	Goel, U. Y. K., MA PhD	(R)
(S)	Gulati, Miss Saroj, MA	†(LI)
(KM)	Gulal, H., MA	(DAV)
(LSR)	Kale, M., MA	(R)
(LSR)	Mahajan, B., MA	(H)
(SD)	Malhotra, Miss Usha, MA	(M)
(JD)	Jain, Mrs. Nirmala, MA	(LSR)
(DS)	Ojha, K. P., MA	(C)
(DS)	Ojha, Mandhata, MA	(DB)
(DB)	Prakash, Mrs. K., MA	(I)
(I)	Darshini, S. P., MA	(I)
	Parshad, R. K., MA	(DB)
	Sharma, Mrs. Sudha, MA	(M)
Lectr.‡	Tiwari, B. N., MA DPhil	(KM)
Lectr.‡	Tyagi, Miss Usha, MA	(LSR)
Lectr.‡	Verma, Miss Sautosh, MA	(LSR)
Lectr.‡	Singh, Miss M., MA	(I)
	Bhat, M. R. M., MA	(H)
	Chawdhry, M. L., MA	(K)
	Goel, Miss Kusum	(LSR)
	Pal, J., MA Vidyalankar	(HR)
	Lal, K., MA	(DAV)
Prof.‡	Rastogi, R. C., MA	(R)
Prof.‡	Usha, Mrs. Satyavrat	(LSR)
Reader‡	Sharm, R. L., MA	(D)
Reader‡	Verma, Mrs. A.	(M)
Lectr.‡	Kohli, O. P., MA	(HR)
(S)	Sadhu Ram, MA	(KM)

Sharma, G. R., MA PhD	(KM)	Ranade, S. N., MA MSc	(SW)
Gupta, C. B., MA DLitt	(H)	Mokherjee, Miss S., MA	(SW)
Gupta Sen, Miss P., MA	(I)		
Chaudhuri, Mrs. S., MA	(M)	<b>Textile Engineering (DP)</b>	
Gupta, Miss K., MA LLB	(M)	Srivastava, R. N.	
Sahai, Miss Y., MA	(I)	Goswami, J. B., MSc	
Villa, Miss P., MA	(I)	Saxena, K. S., DTM Lond.	
Grover, Miss S., MA	(I.I)	Varma, H. K., LTM Bom.	
Kaushik, Mrs. G. R. K., MA	(LSR)	Ghosh, B., DipFineArts VB.	
Sharma, Miss U. R., MA	(LSR)	Sishadri, P. V., BSc(Text)	
Passi, Mrs. Krishna, MA PhD	(LSR)	Wagh, N. H., Cert in Weaving	
Khanna, Miss Saroj, MA	(LSR)	Swami, N. M., BSc Leeds	
Arya, Miss U., MA	(LSR)	Nagarajan, T. K.	
Taneja, Miss S., MA	(LSR)	Joseph, C. M.	
Sharma, N. D., MA	(DAV)	Verma, T. C.	
Jagdish Kumar, MA	(DAV)	Sareen, B. K.	
Vijay Kumar, MA	(DAV)	Kalra, J. C.	
Bhardwaja, K., MA	(SD)	Chibber, T. C.	
Gupta, S. C., MA PhD	(SD)	Rastogi, R. K.	
Bhardwaj, J. C., MA	(SD)	Bhatia, I. N.	
Roon Narain, MA	(H)	Pal, B. N.	
Sant, D. C., MA	(DS)	Lal, M.S.	
Harsh Kumar, MA	(S)		
Chauhan, R. S., MA	(K)	<b>Urdu, see Persian and Urdu</b>	
Rana, S. S., MA	(K)		
Verma, R. L., MA	(DB)	<b>Zoology</b>	
Sundari, Miss N. T., MA	(I)	Bhatia, M. L., PhD DSc, FNI	Prof. §
Shrimali, Mrs. M., MA	(I)	Johri, L. N., DSc	Reader §
<b>Sindhi</b>		Chandy, Mary, PhD	Reader §
Jhangiani, S. M., MA	(DB)	Saxena, K. N., MSc DPhil Alld.	Reader §
<b>Social Work (SW)</b>		Vishnoi, H. S., MSc	Lectr. §
Gore, M. S., MA DipSSA		Dutt, M. K., MSc DPhil	Lectr. §
Gangrade, K. D., MA BCom DipSSA		Menon, P. S., MSc	Lectr. §
Nanavaty, M. C., MSc		Sarkar, H. L., MSc	Lectr. §
Jain, S. C., MA	(on leave)	Rajamannar, P. V., MSc	Lectr. §
Iyer, S. S., MA		Majumdar, N. N., MSc PhD	Lectr. §
Pathak, S. H., MA		Rangnekar, P. V., MSc PhD (on leave)	Lectr. §
Phadke, S. V., BA MSW		Shantaram, H., DIC, MSc PhD	Lectr. §
Naghpaul, H., MA MS Col.		Sudarshan, Miss, MSc	Lectr. §
Mansingh, Mrs. R. K., MA Bom.		Padmavathi, P. B., MSc	Lectr. §
Mathur, J. S.		Pillai, M. K., MSc	Lectr. §
Chacko, C. J., MA PhD		Vijaykumar, Mrs. Zena	Lectr. (LI)
Ghosh, S. P., MA DPhil		Nagar, S. K., MSc	Lectr. (D)
		Singh, K., MSc	Lectr. (K)
		Dass, C. M. S., MSc PhD	Lectr. §

## ADMINISTRATIVE AND OTHER STAFF

Provost, Gwyer Hall : C. J. Chacko, MA PhD.  
 Master, Jubilee Hall : N. V. Banerjee, MA PhD.  
 Sec. to Vice-Chancellor : H. Chandra, MA.  
 Dep. Registrar : S. K. Sarkar, MA BL. Sports  
 Officer : S. C. Nanda, MA. Asst. Registrar, Fac.

of Sci. : H. Gopal, BA LLB. Asst. Registrar :  
 K. N. Thusu, BA. Asst. Registrar (Accounts) :  
 K. Chander, BA(Com). Information Officer :  
 T. V. Raghavan, MA DipJ. Med. Officer : A. K.  
 Bhargava, MD.

## CONSTITUENT COLLEGES AND INSTITUTIONS

[(CIE), (D), etc. = abbreviations for the colleges in Teaching Staff list, *above* ; BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

**DELHI, Central Institute of Education (CIE),**  
 Univ. Enclave (tel. : 25509). BEd, MEd and res.  
 Principal—E. A. Pires, MA Rom. & Lond., PhD  
 Bom. 16 other Teachers.

**DELHI, Delhi College (D),** Ajmeri Gate (tel. :  
 26802). Preparatory, pre-med., BA, BSc, BCom,  
 BA (hons.), BSc (hons.), MSc, MA. Principal—  
 M. M. Begg, MA. 55 other Teachers.

DELHI, *Delhi Polytechnic* (DP), Kashmere Gate (tel. : 24870). Degrees in civil engin., electr. engin., mech. engin., chem. engin., textile technol., and archit. Principal—S. C. Sen, BSc(Eng) Glas. 61 other Teachers.

DELHI, *Delhi School of Economics* (DSE), Univ. Enclave (tel. : 28121/23). Postgrad. dipl. in econ. admin. and business management, MA (in econ., econ. stats., sociol.), MCom and res. Dir.—Prof. B. N. Ganguli, MA PhD Calc. 20 other Teachers.

DELHI, *Delhi School of Social Work* (SW), University Rd. (tel. : 23991). MA (soc. work). Principal—M. S. Gore, MA. 12 other Teachers.

DELHI, *Deshbandhu College* (DB), Kalkaji (tel. : 34565). Preparatory, pre-med., BA, BSc, BA (hons.). Principal—A. N. Banerji, MA PhD. 27 other Teachers.

DELHI, *Hansraj College* (HR) (tel. : 26747). Preparatory, pre-med., BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—G. L. Datta, MA PhD. 38 other Teachers.

DELHI, *Hindu College* (H), Univ. Enclave (tel. : 24345). Preparatory sci., pre-med., BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—R. N. Mathur, MA. 38 other Teachers.

DELHI, *Indraprastha College for Women* (I), Alipore Rd. (tel. : 26253). Preparatory, BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—Miss Basanti Das Gupta, MA. 50 other Teachers.

DELHI, *Kirori Mal College* (KM) (tel. : 26861). Preparatory, pre-med., BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—Sarup Singh, MA PhD. 39 other Teachers.

DELHI, *Miranda House* (M), Univ. Enclave (tel. : 28123/ext. 15). BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—Mrs. S. Krishnasami, MA. 39 other Teachers.

DELHI, *Ramjas College* (R), Univ. Enclave (tel. : 23706). Preparatory, BA, BSc, BCom, pre-med., BA (hons.), BSc (hons.), MA, MSc. Principal—B. B. Gupta, MA. 39 other Teachers.

DELHI, *St. Stephen's College* (S), Univ. Enclave (tel. : 25086). BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Principal—D. Raja Ram, MA. 26 other Teachers.

DELHI, *S.G.T.B. Khalsa College* (K), Karol Bagh (tel. : 53380). Preparatory, pre-med., BA, BSc, BA (hons.), BSc (hons.), MA, MSc. Offg. Principal—G. S. Bal, MSc. 43 other Teachers.

DELHI, *Shri Ram College of Commerce* (C), Univ.

Enclave (tel. : 23905). BA (hons.), MA, BCom, MCom. Principal—J. N. Vaish, MA. 25 other Teachers.

DELHI, *Vallabhbhai Patel Chest Institute* (VP) (tel. : 23846). MSc, MD, DTD, cert. in med. lab. technol. Dir.—R. Vishwanathan, BA MD DTD, MRCP. 14 other Teachers.

NEW DELHI, *College of Nursing* (N), Jaswant Singh Rd. (tel. : 41/ext. 135). BScN (hons.), MSc (in nursing). Principal—Edith Buchanan, BA DED. 36 other Teachers (including 14 External Lectrs.).

NEW DELHI, *Dayal Singh (Evening) Camp College* (tel. : 40999). Preparatory, BA. Principal—K. K. Dewett, MA PhD. 7 other Teachers.

NEW DELHI, *Dyal Singh (Day)* (DS), Rouse Avenue (tel. : 47990). Preparatory, BA, BA (hons.). Principal—K. K. Dewett, MA PhD. 20 other Teachers.

NEW DELHI, *Indian School of International Studies*, Sapru House (IS) (tel. : 47065). PhD. Dir.—A. Appadorai, MA PhD. 20 other Teachers.

NEW DELHI, *Janki Devi Muhavidyalaya* (JD), Rouse Avenue. Preparatory, BA, BA (hons.). Principal—Miss M. Chandy. 12 other Teachers.

NEW DELHI, *Lady Hardinge Medical College* (LHMC) (tel. : 47201). MB BS, MD, MS, MSc, dipl. in child health, dipl. in anaesthesia. Principal—Mrs. M. Chaudhuri, MB BS, FRCS. 43 other Teachers.

NEW DELHI, *Lady Irwin College* (LI), Sikandra Rd. (tel. : 47747). BScHomeSc, BEd, MSc (in nutrition). Directress—Mrs. B. Tara Bai, MA. 27 other Teachers.

NEW DELHI, *Lady Shri Ram College for Women* (LSR) (tel. : 27588). Preparatory, BA, BA (hons.), MA. Principal—H. P. Dastoor, MA PhD. 21 other Teachers.

NEW DELHI, *Maulana Azad Medical College* (tel. : 45262). MB BS, MSc (in physiol.), dipl. in child health. Principal—Col. B. L. Taneja, MD, MRCP. 12 other Teachers.

NEW DELHI, *P.G.D.A.V. College* (DAV) (tel. : 48586). Preparatory, BA, BSc, BA (hons.), BSc (hons.). Principal—S. Narayan, MSc MA. 19 other Teachers.

NEW DELHI, *Sanatan Dharma College* (SD), Anand Parbat (tel. : 55530). Preparatory, BA. Principal—R. N. Rai, MSc PhD.

## GENERAL INFORMATION

The univ. was establd. by the Delhi Univ. Act (Act VIII of 1922). The original idea of the govt. and legislature was the establt. and incorporation of a unitary teaching and residential univ. on the model recommended by the Calcutta univ. commission. However, this could not be

achieved at once, and the univ. continued to recognize several colls. in which instrcn. was provided under prescribed conditions and provision was made for residence of students.

From 1933, when the univ. was given a permanent home in the old vice-regal lodge, the

idea of a federal univ. gradually took shape and the last decade has witnessed rapid growth and devel. Owing to the large influx of population after 1947, the number of students increased considerably and new colls. were started. The univ. also accepted the extension of the degree course from 2 yrs. to 3 yrs. as part of the reconstruction scheme for higher sec. educn. in Delhi. The scheme included the abolition of the inter. exam., the extension of the high sch. course by 1 yr. (i.e. extension from 10 to 11 yrs.), and the institution of a 3-yr. degree course in the univ. (see below).

The Delhi Univ. Amendment Act, 1952, has made important changes, based on recommendations of the univ. educn. commission, 1950. The univ. is now a teaching and affiliating univ. Affiliated colls. (there are none at present) will be permitted to impart instructn. only up to the bachelor's degree. The jurisdiction of the univ. extends over the whole of Delhi state, instead of being limited to a radius of 10 mls. from convocation hall. The president of India, who was the chancellor, has now become the visitor of the univ., and the chancellor is elected by the court. The vice-chancellor is a whole-time paid officer. Provision has also been made for the appt. of a pro-vice-chancellor to assist the vice-chancellor.

**CONSTITUTION.** The chancellor is the head, the vice-chancellor the principal executive and academic officer, of the univ. The following are the principal univ. authorities: the court, consisting of about 100 members; the executive council, which consists of about 17 members and controls and administers univ. property and funds; the academic council, which is responsible for the maintenance of standards of instructn., educn. and exam. within the univ. Each fac., subject to the control of the academic council, has charge of the teaching, courses of study and res. work in such subjects as may be assigned to it by the ordinances.

**FACULTIES AND DEANS.** *Arts*, Prof. N. Nagaich (Hindi); *educn.*, Dr. E. A. Pires; *law*, Prof. L. R. Sivasubramanian; *med. scis.*, Dr. R. Viswanathan; *music & fine arts*, Dr. R. L. Roy; *sci.*, Prof. M. L. Bhatia (zool.); *soc. scis.*, Prof. B. N. Ganguli (econ.); *technol.*, S. C. Sen (mech. engn.).

**LIBRARIES.** Central univ. library, 105,000 vols.; also depl. libraries. Libraries of constituent colls., more than 281,828 vols. **BOTANICAL MUSEUM.**

**ADMISSION.** Students are not eligible for admission to a degree course unless they have passed the inter. exam. of an Indian univ. incorporated by any law for the time being in force, or the higher sec. exam. of the bd. of higher sec. educn. for Delhi state, or an exam. recognized as equivalent, and also possess any further qualif. required. Candidates for admission must be 16 or, if admitted to the 2nd yr. of a degree course, 17 yrs. of age.

**NON-MEMBERS OF THE UNIV.** The dean of a

fac. may permit a non-member of the univ. to attend one or more courses of univ. lectures or practicals on payment of the prescribed fees. Any person so admitted shall not be entitled to appear in any exam. of the univ., but the dean may grant a cert. attesting that he has attended the course.

**FIRST DEGREES.** 3 yrs. from preparatory—BA pass, BA hons. (in econ., Engl., hist., langs., maths., philos., pol. sci., mathl. stats., philos. & econ. & pol. sci., pol. sci. & law), BSc pass, BSc hons. (in bot., chem., maths., phys., zool.), BScHonsSc, BCom; 3 yrs. from preparatory—BScN hons., BE (civil, electr., mech.), BChE, BText; 5 yrs. from inter.—BArch, MB BS (plus 1 yr. post-exam. practical trg.).

**HIGHER DEGREES.** 1 yr.—BEd, MEd (after BEd); 2 yrs.—MA (in African studies, econ., econ. stats., hist., langs., maths., mathl. stats., philos., pol. sci., psychol., soc. work, sociol.), MSc (in anthropol., bot., chem., phys., zool.), MSc (in anat., bacteriol., nursing, nutrition, physiol., pharmacol.), MCom, MLibSc (after dipl. in libr. sci.), MD (in med., obstet. & gynæcol., pathol.), MS, LLM (after BCL or LLB); 3 yrs.—LLB, BCL; res. degrees—LLD, PhD.

**DIPLOMAS.** Russian, 1 yr. after cert. in Russian; Hindi, Panjabi, Urdu, each 2 yrs.; business management, 3 yrs.; anæsthesia, child health, econ. admin., libr. sci., tuberculous dis., each 1 yr. postgrad.

**CERTIFICATES.** French, German, Italian, Hausa, Swahili, med. lab. technol., proficiency in law (Panjab), each 1 yr.; proficiency in Russian, 1 yr. with double periods.

**WOMEN'S EDUCATION.** There is an advisory bd. of women's (non-collegiate) educn. Women are allowed to appear privately, through this bd., at BA, MA and LLB exams. The bd. also organizes preparatory courses in the evg. for women students.

**FEES.** Min. tuition fees payable for 12 mos.: undergrad. courses, Rs. 15 p.m.; postgrad. courses, Rs. 18 p.m. Cost of living (incl. coll. residential fees) varies from Rs. 100 to Rs. 125 p.m.

**ACADEMIC YEAR.** July to April, 3 terms. Term dates (approx.): July 16 to Oct. 3; Oct. 14 to Dec. 23; Jan. 4 to April 30.

**MEDIUM OF INSTRUCTION.** English in the univ. for all degree courses except in the mod. Indian langs. courses, where the lang. concerned is used. Students have the option of using Hindi in the admission exam. in the facs. of arts and soc. scis. and in all subjects in the qualifying and BA (pass) exams.

**SCHOLARSHIPS.** 6 resident scholps. of Rs. 100 p.m. and 6 scholps. of Rs. 25 p.m. open to students both of Delhi and outside entering the univ. for first degree. Awarded annually on result of competitive exam. Scholars are required to study for an hons. degree in the univ. Resident scholars reside in a coll.

**'OPEN' POSTGRADUATE AWARDS.** 6 'open' postgrad. scholps. of Rs. 100 and 3 'open'

resident fellowships of Rs. 200 p.m. awarded annually under all-India scheme. Deserving students who require financial assistance may qualify for Pdt. M.N. Dar scholps. of Rs. 75 p.m. for resident, Rs. 30 p.m. for non-resident, students.

**INDIAN SCHOOL OF INTERNATIONAL STUDIES.** A centre of advanced study for students from India and abroad, concerned esp. with pol., econ. and soc. developments in Asia. *See also* p. 463.

**RESIDENCE.** Each coll. provides some residential accomm. for its own students. Univ. halls : Gwyer Hall, accomm. for 110 postgrad. students in addn. to a number of res. students and teachers ; Jubilee Hall, accomm. for 120 students ; med. officer. Both halls are situated within the univ. enclave. Monthly expenditure, Rs. 90 approx.

**MILITARY FORMATION.** N.C.C. (first Delhi bn.). Strength : sr. div., 12 officers, 555 cadets.

**STUDENT ATHLETIC FACILITIES.** There is a univ. athletic assocn. and a univ. sports officer. Sports facilities are provided by each of the colls. and halls. Games played incl. cricket, hockey, football, tennis and volley-ball.

**EMPLOYMENT BUREAU.** The bureau provides a student counselling service and assists grads. of the univ. in obtaining suitable appts.

**STUDENTS' UNIONS.** Apart from the students' union in each coll., there is a central univ. union.

**PUBLICATIONS.** *Calendar* (1959), Rs. 5.50 n.p. ; *Courses of Reading* ; *Question Papers* ; *Annual Report and Annual Accounts* (free) ; *Convocation Addresses* (free).

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men	10,666	2232
Women	5,410	31
Total	16,076	2263

Distribution by Faculties. *Arts & soc. scis.*, 12,525 ; *educn.*, 149 ; *law*, 807 ; *med. scis.*, 668 ; *sci.*, 3549 ; *technol.*, 641. Total : 18,339.

*Included in the figures above are :—*

Preparatory and pre-med. students, 3761 (2642 m., 1119 w.).

Postgraduate students, 2939.

New admissions, 8670.

Students from other countries, 241. (Countries

from which largest numbers came : British E. Africa, 62 ; Nepal, 23 ; Malaya, 11).

**DEGREES AWARDED (1958-59).** BA pass, 597 ; BA hons., 385 ; BCom, 213 ; MA, 334 ; MCom, 8 ; BEd, 101 ; MEd, 16 ; LLB, 250 ; BCL, 1 ; LLM, 2 ; MB BS, 31 ; MD, 3 ; BSc pass, 144 ; BSc hons., 101 ; BScHomeSc, 47 ; BScN hons., 22 ; BArch, 25 ; BA(Elect), 35 ; BMech, 31 ; BChE, 14 ; BText, 6 ; MSc, 62.

**DIPLOMAS AWARDED (1958-59).** Bus. management, 37 ; econ. admin., 6 ; libr. sci., 17 ; Russian, 14.

**CERTIFICATES AWARDED (1958-59).** French, 41 ; German, 57 ; Italian, 9 ; Russian, 50 ; proficiency in law, 106.



# UNIVERSITY OF GAUHATI

Founded 1948

Postal Address : Gauhati, Assam, India  
Cables and Telegrams : University, Gauhati  
Telephone : Gauhati 101

CHANCELLOR—THE GOVERNOR OF ASSAM (*ex officio*)

VICE-CHANCELLOR, PRESIDENT OF ACADEMIC COUNCIL, AND CHAIRMAN OF EXECUTIVE COUNCIL—Professor H. C. BHUYAN, MSc *Calc.*, PhD

REGISTRAR—P. DATTA, MA BL *Calc.*

DEPUTY REGISTRAR—C. DAS, MA BL *Calc.*

TREASURER—K. C. BHATTACHARYYA, MA *Calc.*

SECRETARY, UNIVERSITY CLASSES—Professor H. K. BARUAH, MSc *Calc.*, PhD *Camb.*, FLS

## TEACHING STAFF

### Agricultural Botany

Majumdar, S. K., PhD *Durh.*, BSc  
BSc(Agric)  
Chako, C. I., MSc(Agric)  
Rajan, A. K., MSc(Agric) *Ban.*  
Wamanan, P.  
Goswami, R. N., MSc(Agric)  
Dasgupta, P. R.  
Goswami, L. C., MSc(Agric)

Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Anthropology

Goswami, M. C., MA BT *Calc.*  
Das, B. M., MSc DPhil  
Dowara, S., MA *Calc.*  
Deka, Mrs. Usha, MSc *Calc.* (on leave)  
Mahapatra, L. K., MA *Calc.* (on leave)  
Khatri, A. P., MSc  
Bhagabati, A. C., MSc  
Sarma, T., MSc

Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Assamese

Barua, B. K., MA BL *Calc.*, PhD *Lond.*  
Neog, M., MA *Calc.*, DPhil  
Sarma, S. N., MA *Calc.*, DPhil  
Goswami, G. C., MA  
Biswas, S., MA *Calc.*

Prof.  
Reader  
Reader  
Lectr.  
Lectr.

### Bengali

Bhattacharyya, D., MA *Calc.*

Lectr.

### Botany

Baruah, H. K., MSc *Calc.*, PhD *Camb.*,  
FLS  
Das, N., MSc *Calc.*, PhD *Lond.*  
Baishya, D. N., MSc  
Satyanarayan, G., MSc PhD

Prof.  
Reader  
Lectr.  
Lectr.

### Chemistry

Barua, R. K., MSc PhD  
Siddhanta, N. N. S., MSc PhD *Ban.*  
Chaudhury, Mrs. Arunmoni, MSc *Calc.*,  
PhD *Lond.*  
Kaimal, K. G., MSc PhD  
Raghaban Nayar, M. G., MSc  
Bhargwa, H. D., MSc

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Commerce

Sabharwal, D. C., MA *Glas.*, BCom *Edin.*  
Saikia, K. N., MA *Calc.*, LLB  
Gogoi, P., MA *Calc.*  
Goswami, P. C., MA *Calc.*, LLB  
(on leave)  
Goswami, P., MA *Calc.*, DPhil  
Goswami, S., MA BL *Calc.* (on leave)  
Jagannadham, D., MA  
Joseph, A. C., MCom *And.*  
Mehrotra, P., MCom  
Mehrotra, S. N., MCom  
Sarma, D. C., BCom  
Sarma, M. C., MCom  
Das, H. N., MA  
Datta, N. C., MCom

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Culture and Civilization of Assam

Chaudhury, B., MSc *Calc.*, PhD *Lond.*

Lectr

### Economics

Thomas, P. C., MA PhD *Madr.*  
Krishnamurthy, K., MA *Madr.*  
Bardalai, U. N., MCom

Prof.  
Lectr.  
Lectr.

### Education

Dasgupta, D. C., MA EdD *Calif.*  
Kar, B. C., MA *Lond. & Gauh.*, BT TD

Reader  
Reader

Saikia, S., MA  
 Borah, K. P., MA *Ban.*  
 Devi, Mrs. Renu, MA  
 Hazarika, A. C., MA BL BT *Calc.*

Lectr. Barua, B. C., MSc BL *Calc.* (on leave) Lectr.  
 Lectr. Das, R. R., BL *Calc.* (on leave) Lectr.  
 Lectr. Sarma, D. K., BL *Calc.* (on leave) Lectr.  
 Lectr. Pathak, D. Lectr.

**English**

Goswami, P. D., MA *Calc.*, DPhil  
 Ganguli, M. K., MA *Calc.*  
 Dutta, A., MA PhD  
 Sarma, G. V. L. N., MA *Ban.*  
 Bhattacharyya, S. C., MA PhD  
 Lais, A., MA  
 Choudhuri, J. K., MA  
 Pakeday, T. M., MA  
 Kakati, B., MA  
 Datta, H. N., MA *Calc.*

Reader  
 Reader  
 Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**Mathematics**

Thawani, V. D., MA *Camb.* (on leave) Prof.  
 Bezbarua, Miss Amala, MSc (on leave) Lectr.  
 Deka, B., MSc (on leave) Lectr.  
 Mahauta, M., MA *Ban.* Lectr.  
 Tamuly, B. K., MA Lectr.  
 Deb Misra, A., MA Lectr.

**Philosophy**

Sarma, R. R., MA PhD *Calc.* Reader  
 Bagchi, K. K., MA Lectr.  
 Krishnakutty, M., MA Lectr.

**Physics**

..... Prof.  
 Mahanta, P. C., MSc *Calc.*, PhD *Lond.* Reader  
 Chaudhury, B., MSc *Calc.*, PhD *Lond.* Lectr.  
 George, S., MSc *Saug.* (on leave) Lectr.  
 Murthy, P. N., MSc Lectr.  
 Sarma, T., MSc Lectr.  
 Kakati, K. K., MSc Lectr.  
 Das, I. M., MSc Lectr.

**Political Science**

Rao, V. V., MA PhD *Madr.* Reader  
 Dasgupta, J. B., MA Lectr.  
 Budhraj, V., MA PhD Lectr.

**Sanskrit**

Basu, J., MA Prof.  
 Sengupta, B. K., MA DPhil *Calc.* Reader  
 Sarma, M. M., MA *Calc.* Lectr.  
 Venkatacharyya, T., MA Lectr.

**Statistics**

Medhi, J. P., MSc *Calc. & Manc.*,  
 PhD *Paris* Reader  
 Nag, S. C., MSc Lectr.  
 Palit, A. K., MSc Lectr.  
 Sinha, S. M., MSc *Patna* (on leave) Lectr.  
 Chakravarty, R. P., MSc Lectr.

**Geography**

Das, H. P., MA *Calc.*, PhD *Lond.* Reader  
 Barthakur, M., MA *Alld.* Lectr.  
 Pal, D. K., MA *Calc.* (on leave) Lectr.  
 Taher, M., MA  
 Banerjee, M. K., MSc Lectr.  
 Sen, P. K., MSc Lectr.  
 Sengupta, S., MSc Lectr.

**Geology**

Choudhury, J. M., MSc *Ban.*, PhD *Lond.* Reader  
 Bhattacharyya, C. C., MSc Lectr.  
 Goswami, D., MSc *Luck.* Lectr.  
 Rao, M. N., MSc *And.* Lectr.  
 Ramchandra, P., MSc Lectr.  
 Balakrishnan, K. V., MSc Lectr.  
 Mukherjee, A. C., BSc MTech Lectr.

**Hindi**

Sukla, L., MA Lectr.  
 Chaudhury, R. D., MA Lectr.

**History**

Misra, V. B., MA *Ban.* Reader  
 Barua, D. P., MA Lectr.  
 Murthy, H. V. S., MA *Mys.* Lectr.  
 Phukan, J. N., MA Lectr.  
 Rao, K. R., MA Lectr.  
 Gupta, A., MA Lectr.

**Law**

Medhi, J. C., PhD *Lond.*, MA BL  
 Principal, Univ. Law Coll.

**ADMINISTRATIVE AND OTHER STAFF**

ASST. REGISTRARS. R. K. Barua, MSc ;  
 (Addnl.) N. Sarma, MA.

ASST. SEC., UNIV. CLASSES. A. K. Sarma,  
 MCom.

UNIVERSITY LIBRARIAN. J. Sarma, MA *Calc.*

WARDENS. Law Hall : K. N. Saikia, MA *Calc.*,  
 LLB ; Hall No. 1 : M. C. Goswami, MA BT  
*Calc.* ; Hall No. 2 : M. Barthakur, MA *Alld.* ; Hall  
 No. 3 : Mrs. Bhabanipriya Das, BA *Calc.*, BT ;  
 Hall No. 4 : S. Dwera, MA ; Hall No. 5 : N.  
 Das, MSc *Calc.*, PhD *Lond.*

## AFFILIATED COLLEGES

[IA, BA, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, BA, etc.]

ALHAYAPURA, *Alhayapura College*, Assam. IA. Principal—K. Goswami, MA. 6 Lectrs.

BARPETA, *M.C. College*, Assam. IA, BA. Actg. Principal—B. B. Mazumdar, MA. 7 Profs., 8 Lectrs.

DHUBRI, *B.N. College*, Assam. IA, ISc, BA. Principal—J. Das, MA. 8 Profs., 8 Lectrs.

DIBRUGARH, *Assam Medical College* (Govt.), Assam (tel.: Dibrugarh 80). MB BS. Principal—B. N. Banerji, FRCS. 13 Profs., 15 Lectrs.

DIBRUGARH, *Dibrugarh H.S.K. College*, P.O. Rehabari, Assam (tel.: Dibrugarh 105). IA, ISc, ICom, BA, BCom. Principal—J. R. Basu, MA Calc. 24 Profs., 22 Lectrs.

GAUHATI, *Assam Engineering College*, P.O. Gauhati Univ., Jaluklari, Assam (tel.: Gauhati 650). BE. Principal—N. Das Gupta, BE Calc., MS. 10 Profs., 7 Lectrs.

GAUHATI, *Assam Veterinary College*, P.O. Gauhati, Assam (tel.: Gauhati 466). 1st & Final BVSc. Principal—R. R. Ghulati.

GAUHATI, *B. Barooah College*, Assam (tel.: Gauhati 393). IA, BA. Principal—H. Barua, MA Calc. 14 Profs., 6 Lectrs.

GAUHATI, *Cotton College* (Govt.), Assam (tel.: Gauhati 38). IA, ISc, BA, BSc. Principal—H. C. Goswami, MSc Calc. 18 Profs., 50 Lectrs.

GAUHATI, *Handiqui Girls' College*, Assam (tel.: Gauhati 393). IA, BA. Principal—R. B. Das, MA Calc. 2 Profs., 13 Lectrs.

GAUHATI, *Pragjyotish College*, P.O. Gauhati, Assam (tel.: Gauhati 831). IA. Principal—T. N. Sarma, MA Calc. 20 Lectrs.

GOALPARA, *Goalpara College*, P.O. Goalpara. IA. Principal—A. Roy, MA Calc. 5 Lectrs.

GOLAGHAT, *Debraj Roy College*, Assam. IA. Principal—K. C. Das, MA BT. 6 Lectrs.

HAILAKANDI, *S.S. College*, P.O. Hailakandi. IA. Principal—D. Bhattacharjee, MA Calc. 6 Lectrs.

IMPHAL (MANIPUR), *D.M. College*. IA, ISc, BA, BSc, BCom. Principal—S. N. Kaul, MA Calc. 1 Prof., 22 Lectrs.

JORHAT, *Assam Agricultural College* (Govt.), Assam. ISc(Agri), BSc(Agri). Principal—M. C. Das, MSc Calc., PhD Edin., FLS. 8 Profs., 19 Lectrs.

JORHAT, *D.C. Barua Girls' College*, Assam. IA. Principal—A. P. Bhattacharyya, MA Calc. 14 Lectrs.

JORHAT, *J.B. College*, Assam. IA, ISc, ICom, BA, BSc, BCom. Principal—G. G. Datta, MA BL Calc. 1 Prof., 35 Lectrs.

JORHAT, *Postgraduate Training College* (Govt.). BT. Principal—I. Miri Edin. 10 Lectrs.

KARIMGANJ, *Karimganj College*, Assam. IA, ISc, ICom, BA, BSc. Principal—P. C. Bhattacharyya, MA Calc. 22 Profs., 2 Lectrs.

MONGALDAI, *Mongaldai College*. IA. Principal—P. C. Sharma, MA BL. 8 Lectrs.

NALBARI, *Nalbari College*, Assam. IA, BA. Principal—T. N. Goswami, MA BL Calc. 6 Profs., 6 Lectrs.

NORTH LAKHIMPUR, *North Lakhimpur College*. IA. Principal—J. N. Borgohain, MA. 8 Lectrs.

NOWGONG, *Nowgong College*, Assam. IA, ISc, ICom, BA, BCom. Principal—J. Sarma, MA Calc. 25 Profs.

PATHSALA, *Bajali College*, Assam. IA. Principal—..... 6 Lectrs.

SHILLONG, *Lady Keane Girls' College*, Assam. IA, BA. Principal—U. Bhattacharyya, MA BT Calc. 19 Profs.

SHILLONG, *St. Anthony's College*, Assam (tel.: Shillong 95A). IA, ISc, ICom, BA, BSc, BCom. Principal—Rev. D. J. Wollaston. 30 Lectrs.

SHILLONG, *St. Edmund's College*, Assam (tel.: Shillong 307). IA, ISc, BA, BT. Principal—Rev. Br. J. N. Foley. 17 Profs., 4 Lectrs.

SHILLONG, *St. Mary's College*, Assam. IA, BA, BT. Principal—Rev. Mother M. D. E. Sales. 8 Profs., 6 Lectrs.

SHILLONG (BARPANI), *Union Christian College*, Assam. IA. Principal—I. M. Simon, MA. 7 Lectrs.

SIBSAGAR, *Sibsagar College*, Assam. IA, BA, ISc. Principal—P. D. Chaliha, MA BL. 16 Lectrs.

SILCHAR, *Gurucharan College*, Assam (tel.: Silchar 2). IA, ISc, ICom, BA, BSc, BCom. Principal—J. K. Choudhury, BA Oxon. 29 Profs.

TEZPUR, *Darrang College*, Assam. IA, ISc, BA. Principal—S. Shome, MA. 19 Profs.

TINSUKIA, *Tinsukia College*. IA, ICom. Principal—U. P. De. 11 Lectrs.

## GENERAL INFORMATION

The univ. came into existence on Jan. 1, 1948, and its constitution is governed by the Gauhati Univ. Act, 1947 (Assam Act XVI of 1947). It

is an affiliating, teaching and residential univ. with jurisdiction over all the achs. and colls. in the state of Assam which were formerly affiliated

to the Univ. of Calcutta. Under the Gauhati Univ. Act, 1947, the govt. of Assam contributes annually not less than 5 lakhs of rupees to meet the recurring charges of the univ.

**INCOME (1958-59).** Rs. 9,244,996. Govt. grant, 60.6 per cent.; fees, 30.9 per cent.; endowments, 0.2 per cent.; misc., 8.3 per cent.

**FACULTIES AND DEANS.** *Agric.*, Dr. M. C. Das; *arts*, Prof. B. K. Barua (Assamese); *comm.*, Prof. D. C. Sabharwal; *law*, Dr. J. C. Medhi; *med.*, .....; *sci.*, Prof. H. K. Baruah (bot.).

**UNIVERSITY CAMPUS.** All teaching depts. except Assamese hons. and undergrad. educn. are now in the newly constructed bldgs. on the univ. campus at Jalukbari, 7 mls. west of Gauhati.

**LIBRARIES.** Univ. library, 35,600 vols.

**MUSEUMS.** Anthropol., bot., comm., geol., educn.

**ADMISSION.** Candidates must have passed the matric. exam. of an Indian univ. or an exam. recognized as equivalent.

The univ. proposes to introduce the 3-yr. degree course from the academic session 1962-63.

**FIRST DEGREES.** 2 yrs. after inter.—BA, BSc, BCom, BSc(Agri); 3 yrs.—LLB; 4 yrs. after ISC—BE; 5 yrs.—BVSc&AH; 5½ yrs. after ISC—MB BS.

**HIGHER DEGREES.** 2 yrs. after corresponding bachelor's degree—MA, MSc, MCom. 1 yr. after bachelor's degree—BT. 2 yrs. after master's degree—DPhil.

**DIPLOMAS AND CERTIFICATE.** Dipl. in secretarial practice (2 yrs.); teachers' trg. cert. course in geog. (3 mos.); dipl. in teachers' trg. in method of Engl. teaching (1 yr.).

**THE USUAL LANGUAGE OF INSTRUCTION** is English.

**FEES.** Postgrad. tuition fees, Rs. 12 p.m.; BT, Rs. 15 p.m., and law, Rs. 9 p.m. Undergrad., Rs. 8 p.m.; inter. classes, Rs. 7 p.m.; dipl. courses, Rs. 6 p.m.; geog. trg., Rs. 10 p.m.

**ACADEMIC YEAR.** July-June.

**STUDENTS' ADVISORY BOARD.** The bd. assists students who wish to pursue higher studies in India and abroad; it also maintains a register of former students and supplies information about careers and appts.

**STUDENT RESIDENCES.** (For Wardens, see 'Admin. and Other Staff', *above*.) Hall No. 1, Hall No. 2, Hall No. 3, Hall No. 4 and Hall No. 5 all situated at Jalukbari, P.O. Gauhati Univ. Seat rent, Rs. 51 p.a. in any hall.

**STAFF RESIDENCES.** 56 residences at Jalukbari, 7 mls. west of Gauhati.

**STUDENTS' UNIONS.** Postgrad. students' union and undergrad. students' union, in addn. to unions at the affiliated colls. BT trainees have an assocn. of their own.

**PUBLICATIONS.** Univ. *Calendar*, every 3 yrs. (Rs. 10); *Journal*, annual; various text-books; university students' *Journal*, annual (Rs. 3).

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . .	18,219	1906
Women . .	3,071	13
Total . .	21,290	1919

**Distribution by Faculties.** *Agric.*, 195; *arts*, 14,940; *comm.*, 1347; *engin.*, 280; *law*, 374; *med.*, 547; *sci.*, 5245; *vet. sci.*, 148; others, 133.

*Included in the figures above are:—*

Intermediate students, 15,571.

Postgraduate students, 833.

New admissions, 8691.

Students from other countries, 43.

**DEGREES AWARDED (1958-59).** BA, 1034; BCom, 109; BSc, 236; LLB, 24; BSc(Agri), 13; BVSc&AH, 20; BT, 72; MA, 121; MB BS, 35; MCom, 20; MSc, 32.

**DIPLOMAS AWARDED (1958-59).** Secretarial practice, 4.

**CERTIFICATES AWARDED (1958-59).** Teacher's trg. in English, 16.

# GORAKHPUR UNIVERSITY\*

Founded 1956

Postal Address : Gorakhpur, Uttar Pradesh, India

Cables and Telegrams : University, Gorakhpur

Telephones : 201, 60

CHANCELLOR—V. V. GIRI, Governor of Uttar Pradesh

VICE-CHANCELLOR—B. N. JHA, BEd *Edin.*

TREASURER—S. N. M. TRIPATHI, MA LLB

REGISTRAR—K. J. MAJMUDAR, MA BT

HON. LIBRARIAN—Professor V. P. UPADHYA, MA BL DLitt

## UNIVERSITY TEACHING STAFF

[† = Part-Time]

### Ancient History and Culture

Pandey, G. C., MA DPhil	Prof., Hd. of Dept.
Singh, R. B., MA PhD	Asst. Prof.
Ojha, K. C., MA DPhil	Asst. Prof.
Chaturvedi, S. N., MA	Asst. Prof.
Singh, S. J., MA	Asst. Prof.
Ghosh, K., MA	Asst. Prof.
Goel, S. R., MA	Asst. Prof.
Thakur, U., MA DPhil	(on leave) Asst. Prof.
Mukerji, S., MA PhD	Asst. Prof.
Rai, J. M., MA	Asst. Prof.
Tripathi, D. N., MA	Asst. Prof.
Misra, S. N., MA	Asst. Prof.
Shukla, D. C., MA	† Lectr.
Rao, V. B., MA	† Lectr.

### Botany

Bhargva, K. S., PhD <i>Lond.</i> , MSc DPhil	Prof., Hd. of Dept.
Chatterji, U. N., DPhil DSc	Asst. Prof.
Sahai, R., MSc	Asst. Prof.
Rai, S. K., MSc PhD	Asst. Prof.
Kumar, H. D., MSc	Asst. Prof.
Ganguli, Mrs. S., MSc	Asst. Prof.
Pande, D. K., MSc	† Lectr.
Misra, P. C., MSc	† Lectr.

### Chemistry

Mehrotra, R. C., MSc DPhil <i>Alld.</i> , PhD <i>Lond.</i> , FRIC	Prof., Hd. of Dept.
Tripathi, S. C., MSc DPhil	Asst. Prof.
Rai, R. S., MSc DPhil	Asst. Prof.
Joshi, K. C., MSc PhD	Asst. Prof.
Tiwari, P. H., MSc PhD	Asst. Prof.
Rao, R. P., MSc	Asst. Prof.
Giri, S., MSc	Asst. Prof.
Tandan, J. P., MSc	Asst. Prof.
Agrawal, R. P., MSc	† Lectr.

Bahel, S. C., MSc	† Lectr.
Puri, D. M., MSc	† Lectr.
Srivastava, G. B., MSc	† Lectr.
Gupta, V. S., MSc	† Lectr.
Mehrotra, R. K., MSc	† Lectr.
Rai, A. K., MSc	† Lectr.

### Chinese Language

Hu, C. T., MA	Asst. Prof.
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### Commerce

Misra, A. B., MA DLitt	Asst. Prof., Hd. of Dept.
Singh, P. N., MCom	Asst. Prof.
Bajjal, A. P., MCom	Asst. Prof.
Dwivedi, P. K., MCom	Asst. Prof.
Singh, M., MCom	Asst. Prof.
Tripathi, R. N. M., MCom	Asst. Prof.
Singh, B., MCom	Asst. Prof.
Pande, U. S., MCom	Asst. Prof.
Bisen, B. B. S., MCom	Asst. Prof.
Prasad, S. D., MCom	Asst. Prof.
Singh, H. H., MCom	Asst. Prof.
Singh, F. B., MCom	Asst. Prof.
Dube, K. D., BCom MA LLB	Asst. Prof.
Pandey, R. K., MCom	Asst. Prof.
Bajpai, O. P., MCom	Asst. Prof.

### Economics

Bahadur, R. P., MA DPhil	Prof., Hd. of Dept.
Shahi, H. P., MA BT PhD	Asst. Prof.
Joseph, I., MA	Asst. Prof.
Dube, V., MA	(on leave) Asst. Prof.
Mukerji, B. K., MA	Asst. Prof.
Singh, B. K., MA	Asst. Prof.
Shardamma, K., MA	Asst. Prof.
Misra, S. S., MA	Asst. Prof.

Member of the Association of Universities of the British Commonwealth

Asst. Prof  
Asst. Prof  
Asst. Prof  
Asst. Prof  
Asst. Prof

## Hd. of Dept.

Singh, H. L., MA PhD *Lond.*

Prof., Hd. of Dept.

Srivastava, H. S., MA LT PhD	Asst. Prof.
Chand, T. P., MA LLB	Asst. Prof.
Bhatnagar, G. D., MA PhD	Asst. Prof.
Varma, H. C., MA	†Lectr.
Dwivedi, S. D., MA	†Lectr.
Srivastava, V. S., MA	†Lectr.
Banerjee, Mrs. L., MA	†Lectr.

**Misra, P. N., MA LLB**

**Asst. Prof., Hd. of Dept.**

Sharma, R. P., BA LLM *Lond.*

(on leave) Asst. Prof.

Hingorani, R. C., LLM	(on leave)	Asst. Prof.
Tiwari, S. P., BSc LLM		Asst. Prof.
Ahluwalia, S., LLM <i>Yale &amp; Gorakhpur,</i> BSc		† Lectr.
Prasad, A., BSc LLB		† Lectr.
Bajpai, R. K., MA LLB		† Lectr.

**Misra, R. S., MSc PhD, FNI**

Prof., Hd. of Dept.

Lal, K. B., MA	Asst. Prof.
Singh, U. P., MA	Asst. Prof.
Kumari, S., MSc DPhil	Asst. Prof.
Verma, B. G., MA	Asst. Prof.
Mahajan, S. C., MSc	Asst. Prof.
Tripathi, R. S., MSc	†Lectr.
Warsi, N. A., MSc	†Lectr.
Sinha, R. S., MSc	†Lectr.

**Kulshrestha, Lt. R. C., MA**

**Asst. Prof., Hd. of Dept.**

Nagar, K. S., MA Asst. Prof.

Sinha, M. M., MA MS PhD <i>Oregon</i>	Asst. Prof.
Bharadwaj, S. B., MA LT PhD	Asst. Prof.
Tripathi, I. B., MA Dipl in Psychol	Asst. Prof.
Singh, L. A., MA	Asst. Prof.
Srivastava, S., MA	Asst. Prof.
Pal, A. K., MA	Asst. Prof.
Rastogi, G. D., MA PhD	Asst. Prof.
Prasad, M., MA PhD	Asst. Prof.
Saxena, Mrs. L., MA DPhil	Asst. Prof.
Singh, R. S., MA	†Lectr.
Mall, R. A., MA	†Lectr.
Singh, B. B., MA	†Lectr.
Srivastava, S., MA	†Lectr.

<b>Sharma, D., MSc DPhil</b>	<b>Prof., Hd. of Dept.</b>
<b>Mehrotra, B. N., MSc</b>	<b>Asst. Prof.</b>

Misra, S. P., MA *Minn.*

Asst. Prof., Hd. of Dept.

Varma, R. N., MA PhD	Asst. Prof.
Srivastava, G. P., MA	(on leave) Asst. Prof.
Varma, R. S., MA DPhil	Asst. Prof.
Singh, M., MA	Asst. Prof.
Singh, B. M., MA	Asst. Prof.
Singh, P., MA	Asst. Prof.
Srivastava, N. S., MA	Asst. Prof.
Misra, U., MA	Asst. Prof.
Biswas, J. C., MA	Asst. Prof.
Upadhyaya, U. P., MA BEd	Asst. Prof.
Tripathi, R. S., MA	Asst. Prof.
Dube, G., MA	Asst. Prof.
Tripathi, Y. B. R., MA	† Lectr.

**Kumar, J., BA DipFineArts**

Asst. Prof., Hd. of Dept.

Shukla, S., MA MMus BV Luck.	Asst. Prof.
Dhulia, D. P., DipFineArts	Asst. Prof.
Singh, M., MMus	Asst. Prof.
Tripathi, R. N. M.	Instr.
Vyas, Mrs. R., BA BT	Instr.
Mathur, K. N., MA	Instr.

Singh, M., MA	Asst. Prof., Hd. of Dept.
Tewari, C. B., MA	Asst. Prof.
Pannu, S., MA	Asst. Prof.
Shahi, M. P., MA	† Lectr.
Singh, Mrs. P. L., MA	† Lectr.
Rai, S. D., MA	† Lectr.

Shukla, R. S., MA DLitt	Prof., Hd. of Dept.
Tiwari, G. N., MA PhD	Asst. Prof.
Misra, B. G., MA	Asst. Prof.
Dixit, A. P., MA PhD	Asst. Prof.
Sanadhya, D., MA PhD Shastri	Asst. Prof.
Sharma, S. P., MA BT PhD	Asst. Prof.

Tripathi, S. B. M., MSc  
 Srivastava, G. P., MSc DPhil  
 Sanyal, N. K., MSc  
 Saxena, V. N., MSc  
 Srivastava, B. B., MSc  
 Khanna, S. M., MSc  
 Tripathi, K. K., MSc

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 †Lectr.

Misra, V. N., MA Shastri  
 Gupta, S. K., MA PhD

Asst. Prof.  
 Asst. Prof.

### Political Science

Srivastava, H. S., MA LT PhD

Asst. Prof., Hd. of Dept.

Krishnanand, MA LLB DPA PhD  
 Tiwari, J. N., MA LLB  
 Sinha, K. N., MA LLB  
 Nangpal, P., MA LLB  
 Tripathi, R. K. M., MA  
 Dikshit, B. V., MA PhD  
 Srivastava, N. N., MA LLB  
 Singh, L. N., MA Acharya  
 Joshi, H. C., MA Acharya  
 Pande, R. M., MA  
 Tripathi, R. K. M., Acharya  
 Tripathi, V. N., MA Shastri  
 Avasthi, S. S., MA Shastri  
 Srivastava, Mrs. S., MA  
 Shukla, U. S., MA

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 †Lectr.  
 †Lectr.

### Sanskrit

Upadhyaya, V. P., MA BL DLitt

Prof., Hd. of Dept.

Shukla, D. N., MA PhD DLitt

(on leave) Asst. Prof.

### Sociology

Deo, I., MA PhD  
 Gaur, R. P. S., MA  
 Saxena, D. P., MA  
 Bhusan, G., MA

Asst. Prof., Hd. of Dept.  
 Asst. Prof.  
 Asst. Prof.  
 †Lectr.

### Tibetan Language

Bhikhu, M. H.

Asst. Prof.

### Urdu

Illahi, M., MA PhD  
 Salam, A., MA PhD

Asst. Prof., Hd. of Dept.  
 †Lectr.

### Zoology

Chaudhury, H. S., MSc DPhil

Prof., Hd. of Dept.

Shukla, G. S., MSc PhD  
 Khara, S., MSc PhD  
 Saxena, S. C., MSc PhD Lond.  
 Sinha, B. J., MSc DPhil  
 Srivastava, G. J., MSc  
 Srivastava, B. M., MSc  
 Das, A. B., MSc  
 Swaroop, K., MSc  
 Kapoor, P., MSc  
 Tripathi, S. R.

Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 Asst. Prof.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.  
 †Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Proctor : H. P. Shahi, MA BT PhD. Accounts  
 Officer : M. S. Negi, BSc. Warden : R. S.

Misra, MSc PhD, FNI. Med. Officers : J. P.  
 Srivastava, MB BS ; N. R. Banerji, MB BS.

## AFFILIATED COLLEGES

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

AZAMGARH, *D.A.V. College* (1957). BA, BEd.  
 Actg. Principal—S. K. Srivastava, MA.

AZAMGARH, *S.N. College* (1941). BA, BSc,  
 BCom, LLB. Principal—S. Sultan, MA LLB.

BALLIA, *S.C. College* (1916). BA, BSc, LLB.  
 Actg. Principal—S. Chaube, MA.

BALLIA, *T.D. College* (1955). BA, BCom, BSc  
 (Ag), BEd. Principal—S. R. Chaturvedi, MA,  
 BT.

BALRAMPUR, *M.L.K. College* (1955). BA, BSc.  
 Principal—R. K. Vaish, MSc.

BASTI, *K.D. College* (1959). BA. Principal—  
 R. K. Misra, MA LT.

CHANDEGARH, *S.D.J.D. College* (1958). BSc(Ag).  
 Principal—S. K. Misra, MSc(Ag).

DEORIA, *Buddha College*, Kushinagar (1953).  
 BA, BEd. Principal—R. S. N. Tripathi, MA LT.

DEORIA, *D.M. College* (1954). BSc, BSc(Ag).  
 Principal—H. R. Nanda, MSc(Ag).

DUBAHAR, *K.D.D. Degree College* (1959). BA.  
 Principal—P. N. Misra, MA.

FAIZABAD, *K.S.S. College* (1951). BA. Prin-  
 cipal—H. Hukku, MA DLitt.

GHAZIPUR, *Degree College* (1957). BA. Actg.  
 Principal—M. Singh, MA PhD.

GHAZIPUR, *Hindu Degree College*, Zamania  
 (1957). BA. Principal—B. D. Tripathi, MA.

GORAKHPUR, *St. Andrew's College* (1899). BA,  
 BSc, LLB. Principal—M. O. Varkey, MSc.

JAUNPUR, *R.S.K.D.D. College* (1959). BA.  
 Principal—A. Chandra.

JAUNPUR, *T.D. College* (1948). BA, BSc, BCom,  
 BEd. Principal—H. N. Singh, MA BT.

MAZAPUR, *K.B. College* (1957). BA. Prin-  
 cipal—S. S. Jain, MA.

## GENERAL INFORMATION

The univ. was establd. by the Gorakhpur Univ. Act of 1956 and started functioning in July 1957. It is a teaching and affiliating univ. with jurisdiction extending throughout the eastern districts of Uttar Pradesh. Postgrad. teaching is concentrated in the univ. teaching depts.

**CONSTITUTION.** The first statutes of the univ. have been finalized and the necessary steps are being taken to constitute the authorities of the univ.

**INCOME.** Estimate for 1960-61 : Rs. 22,500,000 (principal source : govt. grants).

**UNIVERSITY PRECINCT.** The univ. has a site of about 200 acres. The sci. block has been completed. Bldgs. under constrcn. or planned include the senate hall, various depts., hostels and staff quarters.

**LIBRARY.** Over 26,200 vols.

**LABORATORIES.** Bot., chem., phys., psychol., zool.

**BOTANICAL GARDEN.**

**MUSEUM.** Anc. hist.

**ADMISSION.** The minimum qualif. for admission to a first-degree course is a pass in the inter. exam. of the bd. of high sch. and inter. educn., Uttar Pradesh, or of an Indian univ. incorporated by law, or any other exam. recog. by the univ. as equivalent.

**FIRST DEGREES.** 2 yrs. from inter. arts, inter. sci., inter. sci. (agric.), inter. comm., or equivalent—BA, BSc, BSc(Ag), BCom.

**HIGHER DEGREES.** 1 yr.—BEd ; 2 yrs.—LLB, MA ; 2 yrs. after corresponding bachelor's degree—MSc, MCom, MEd. Courses of instructn. are provided for MA, MSc, MCom. 2 yrs.' res. and thesis after postgrad. degree—PhD. The univ. also awards a DLitt.

**DIPLOMAS.** French, German, Indian music, each 2 yrs. ; soc. work, 2 yrs. postgrad.

**EXTERNAL STUDENTS.** Teachers, inspecting officers of the dept. of educn., librarians and women candidates may be admitted as external students to exams. for the degrees of BA, MA (except in exper. psychol.), MSc (in maths. only), BCom, MCom. Exams. are the same as for the corresp. internal degree.

**RESEARCH.** Facilities available in all univ. depts.

**FEES.** Tuition fees : BA, BSc, BCom, Rs. 12 ; BEd, LLB, MA, MSc, MCom, MEd, Rs. 15.

**ACADEMIC YEAR.** July to April. Term dates (approx.) : July 16 to Dec. 24 ; Jan. 2 to April 30.

**USUAL LANGUAGES OF INSTRUCTION.** Hindi in undergrad. classes ; English at postgrad. level.

**STUDENT RESIDENCE.** Every student not living with a parent or guardian must reside in a hostel maintained by the univ. or a coll. or in a hostel or lodge recognized by the univ. or a coll. There is a 3-storied univ. hostel, and most of the affiliated colls. provide accomm. for a fair proportion of their students.

**STAFF RESIDENCES.** 19 quarters, controlled by univ., for staff members.

**NATIONAL CADET CORPS.** Two indep. coys. (1 at Gorakhpur and 1 at Jaunpur), containing 6 platoons, operate at the various affiliated colls. It is intended also to raise a contingent in the univ. itself.

**STUDENT HEALTH.** Every student is required, by the end of the 2nd term following his admission, to present himself for med. exam. by the univ. med. officer at the univ. dispensary. There are separate arrangements for med. exam. of girl students. Med. facilities are also provided in the affiliated colls.

**STUDENTS' UNION.** A students' union has been formed.

**PUBLICATIONS.** *Prospectus* (annual), Rs. 2.25 n.p.

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

		Full-Time	Part-Time
Men	}	7861	—
Women			
Total		7861	—

Distribution by Faculties. *Agric.*, 620 ; *arts*, 4972 ; *comm.*, 652 ; *law*, 517 ; *sci.*, 1100.

Included in the figures above are :—

Postgraduate students, 840.

**DEGREES AWARDED (1958-59).** *Agric.* : BSc (Ag), 73. *Arts* : BA, 808 ; MA, 152. *Comm.* : BCom, 177 ; MCom, 42. *Educn.* : BEd, 399 ; MEd, 11. *Law* : LLB, 94. *Sci.* : BSc, 399 ; MSc, 5. Total number of first degrees awarded, 1203.

**DIPLOMAS AWARDED (1958-59).** Chinese, 3 ; photography, 13.

**CERTIFICATES AWARDED (1958-59).** Library sci., 9.



# GUJARAT UNIVERSITY

Founded 1949

Postal Address : Navrangpura, Ahmedabad 9, Gujarat State, India

Cables and Telegrams : Unigujarat

Telephones : 7198, 7488

CHANCELLOR—H.E. THE GOVERNOR OF GUJARAT (*ex officio*)

VICE-CHANCELLOR—M. P. DESAI

REGISTRAR—K. C. PARIKH, MA LLB

LIBRARIAN—K. R. DESAI

## UNIVERSITY TEACHING STAFF

### Gujarati Language and Literature

Joshi, U., MA *Bom.* Prof., Dir.  
Pandit, P. B., MA *Bom.*, PhD *Lond.*  
(Linguistics) Reader

### Psychology

Prabhu, P. H., BA LLB PhD Prof., Dir.  
Bhopatkar, C. T. Reader  
Singh, V. K., MA *Patna* Lectr.  
Das, G. D., MA Lectr.  
Apte, S. M., MA *Poona* Demr.

### Science

Vaidya, P. C., MSc PhD *Bom.* (Maths.) Prof.  
Chinoy, J. J., MSc *Bom.*, DIC, PhD *Lond.*  
(Bot.) Prof.  
Raval, H. N., MA *Bom.* (Maths.) Reader  
Thakker, K. A., MSc *Bom.* (Chem.) Reader  
Pathak, P. D., MSc *Bom.* (Phys.) Reader  
Shah, J. J., MSc *Bom.*, PhD *Bda.* (Bot.) Reader  
Basen, D., MA (Maths.) Lectr.  
Pandya, N. M., MSc (Maths.) Lectr.  
Desai, M. M., MSc PhD (Chem.) Lectr.  
Patel, S. R., MSc PhD *Bom.* (Chem.) Lectr.  
Shah, R. K., MSc PhD (Chem.) Lectr.  
Trivedi, V. M., MSc *Bom.* (Phys.) Lectr.  
Desai, Miss S. R., MSc *Dub.*, PhD *Lond.*  
(Bot.) Lectr.

Shah, C. K., PhD *Delhi*, MSc (Bot.) Lectr.  
Vashi, I. G., MSc (Chem.) Demr.  
Mody, B. A., MSc (Chem.) Demr.  
Jani, K. G., MSc (Phys.) Demr.  
Vora, J. C., MSc (Phys.) Demr.  
Acharya, U. H., MSc (Bot.) Demr.

### Social Sciences

Shenoy, B. R., MA *Ban.*, MSc(Econ) *Lond.*  
(Econ.) Prof., Dir  
Patel, Miss Taraben N., MA *Col.*,  
PhD *Lond.*, BA (Sociol.) Reader  
Pathak, D. N., MA *Chic. & Gujar.*  
(Pol.) Reader  
Pathak, H. N., MA MSc(Econ) *Lond.*  
(Econ.) Reader  
Dholakia, J. L. (Econ.) Reader  
Vashi, D. G., MSc *Lond. & Gujar.*  
(Stats.) Reader  
Ramanmurti, V. V., MA MLitt *Madras.*  
(Pol.) Lectr.  
Parekh, M. G., MA LLB (Pol.) Lectr.  
Parikh, R. D., MA (Sociol.) Lectr.  
Shah, S. M. (Stats.) Lectr.  
Patel, R. C., MSc *Bda.* (Stats.) Lectr.  
Jaiswal, M. C., MSc *Bda.* (Stats.) Lectr.  
Kale, J. D., MSc *Patna* (Stats.) Demr.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : J. M. Mehta, BSc BT *Bom.* Med. Officer : K. A. Shah, MB BS *Bom.* Dir. of  
Asst. Registrar : S. P. Medh, BA LLB. Chief Phys. Educn. : V. P. Mehta, BSc DipPED.

## CONSTITUENT INSTITUTIONS

(Postgraduate depts. of the univ. ; for teaching staff, see above)

UNIVERSITY SCHOOL OF GUJARATI LANGUAGE AND LITERATURE, founded 1954. Prepares post-graduate students for MA and PhD. Dir.—Joshi, MA *Bom.*

UNIVERSITY SCHOOL OF PHILOSOPHY AND PSYCHOLOGY, founded 1957. Prepares postgraduate students for MA and PhD. Dir. and Prof. of PSYCHOL.—P. H. Prabhu, BA LLB PhD.

UNIVERSITY SCHOOL OF SCIENCES, founded

1960. Prepares postgraduate students for MSc and PhD.

UNIVERSITY SCHOOL OF SOCIAL SCIENCES, founded 1954. Prepares postgraduate students for MA and PhD. Dir. and Prof. of ECON.—B. R. Shenoy, MA *Ban.*, MSc(Econ) *Lond.*

## AFFILIATED COLLEGES AND RECOGNIZED INSTITUTIONS

[IA, BA, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, BA, etc.; †=Part-Time]

AHMEDABAD, *Acharatilal Girdharlal Teachers' College*, Navrangpura, Ahmedabad, 9 (tel.: 3602). Founded 1952. TD, BEd, MEd, PhD. Principal—L. R. Desai, BA BT *Bom.*, TD *Lond.* 3 Profs., 8 Lectrs., 3 Tutors, 1 Arts Master† and 1 Phys. Instr.

AHMEDABAD, *Ahmedabad Textile Industry's Research Association*, Navrangpura, Ahmedabad, 9 (tel.: 2851-2). Founded 1953. PhD. Dir.—L. T. S. Subramaniam. Asst. Dirs. & Hds. of Divisions : PHYS.—B. K. Vaidya, MSc PhD *Liv.*; CHEM AND CHEM. PROCESSING—P. C. Mehta, BSc(Tech) MA PhD *Prin.*; HUMAN RELATIONS—K. C. Chawdhary, MA PhD *Mich.*

AHMEDABAD, *Balabhai Damodardas Arts College* (for ladies), Sankli Sheri, Ahmedabad, 1 (tel.: 51792). Founded 1956. ISc, BA. Principal & Prof of ENGL.—S. R. Bhatt, MA LLB. 18 other Profs. and Lectrs.

AHMEDABAD, *Behramji Jijibhai Medical College*, Asarva, Ahmedabad, 11 (tel.: 2947). Founded 1946. MB BS, MD, MS, BSc(Med), MSc(Med). Dean & Prof. of PHARMACOL.—G. K. Karandikar, MS PhD; PHYSIOL.—E. M. Best, MD *Bom.*; ANAT.—B. D. Mishra, MS; PATHOL.—Y. M. Bhende, MD *Bom.* 5 Lectrs., 19 Jr. Lectrs., 14 Demrs. and 50 other Hon. Assts.

AHMEDABAD, *Bholabhai Jeshingbhai Institute of Learning and Research*, Bhadra (tel.: 2202). Founded 1939. Postgrad. and Res. (MA, PhD). Dir. & Prof. of SANSK.—R. C. Parikh, BA *Bom.*; DARSHANA-SHASHTRA—Pdt. S. Sanghvi; GUJARATI APABRANSA—M. C. Modi, MA LLB; ARABIC—S. A. Z. Nadvi (Nadwa Arabic Coll.); ANC. INDIAN CULTURE—H. G. Shastri, MA PhD. 7 other Profs. and Lectrs.

AHMEDABAD, *B.M. Institute of Psychology & Child Development*, Ahmedabad, 6 (tel.: 7923). Founded 1955. MA, PhD, in Psychol. Actg. Dir.—B. Gupta, MA PhD. 2 Assoc. Profs. & Lectrs.

AHMEDABAD, *City Law College*, Laldarwaja, Ahmedabad. Founded 1958. LLB. Principal & Prof. of EVIDENCE, MOHD. LAW, TORT—D. D. Desai, BA LLB. 4 other Lectrs.

AHMEDABAD, *Gujarat College*, Ellisbridge, Ahmedabad, 6 (tel.: 7057). Founded 1879. BA, MA, BSc, MSc, PhD. Principal & Prof. of PHYS.—Y. G. Naik, MSc PhD; GUJARATI—; HIST. AND ECON.—N. B. Naik, MA;

MATHS.—P. V. Parekh, MSc; BIOL.—G. T. Pandya, MSc; BOT.—H. D. Norohna, PhD *Edin.*, MSc; SANSKRIT AND ARDHAMAGADHI—V. M. Kukarni; ENGL.—C. N. Patel; URDU—H. M. Shaikh, MA; PERSIAN—M. A. H. Farooqui, MA PhD; HINDI—S. D. Mansharamani, MA. 49 other Lectrs. and Asst. Lectrs.

AHMEDABAD, *Hargovandas Lakhmichand College of Commerce*, Navrangpura, Ahmedabad, 9 (tel.: 7142). Founded 1936. BCom, MCom, PhD. Principal & Prof. of FOREIGN EXCHANGE AND INTERNAT. BANKING, PUBLIC ECON., ECON. AND COMM.—S. V. Desai, MS *Col.*; Vice-Principal & Prof. of ENGL. AND SCI. METHOD—V. N. Joshi, MA; ACCTG., AUDITING AND ACCTS.—C. R. Lakhia, BCom; ORGN. OF TRADE, MOD. ECON. DEVEL. AND FORMS OF ECON. ORGN.—S. P. Vaswani, MA LLB; ORGN. OF TRANS., TRANS. AND BUS. ORGNS.—P. V. Lokras, BCom MA. 4 Assoc. Profs., 6 Asst. Profs., 16 other Lectrs. and Tutors.

AHMEDABAD, *H.K. Arts College*, Ahmedabad, 9 (tel.: 4290). Founded 1955. BA. Principal & Prof. of GUJARATI—Y. P. Shukla, MA; ENGL.—L. H. Tengshe, MA PhD; SANSK.—J. S. Jetly, MA PhD; POL.—M. G. Parekh, MA LLB; ANC. INDIAN CULTURE—Miss P. J. Shah, DLitt *Paris*, MA PhD. 28 Profs., Lectrs. and Tutors.

AHMEDABAD, *Lalabhai Dalpathbhai Arts College*, Navrangpura, Ahmedabad, 9 (tel.: 7152). Founded 1957. BA, MA, PhD. Principal & Prof. of POL.—P. G. Mavlankar, MA; ENGL.—F. C. Davar, MA LLB; SANSK.—R. B. Athavle, MA; GUJARATI—R. M. Shukla, MA; ECON.—; PHILOS.—V. A. Vanikar, MA; HINDI—R. B. Upadhyaya, MA; ARDHAMAGADHI—V. M. Shah, MA. 27 other Lectrs. and Tutors.

AHMEDABAD, *Lalabhai Dalpathbhai College of Engineering*, Navrangpura, Ahmedabad, 9 (tel.: 3486). Founded 1948. BE, ME. Principal—S. K. Katrak, BE(C) MS *Ill.*; ELECTR. ENGIN.—B. D. Chaudhari, MSE *Mich.*, BE; CIVIL ENGIN.—G. J. Kulkarni, BE(Civil); MECH. ENGIN.—; APPL. MECH.—K. S. Shankara, BE. 59 other Profs. and Lectrs.

AHMEDABAD, *Lalabhai Motilal College of Pharmacy*, Navrangpura, Ahmedabad, 9 (tel.: 7216). Founded 1947. BPharm, MPharm. Principal & Prof. of PHARMACEUTICS AND FORENSIC PHARMACY—R. P. Patel, MSc *Bom.*, PhD *Lond.*; PHARMACEUTICAL CHEM.—C. R. Mehta, MSc PhD

*Bom.*; PHARMACOGNOSY, BIOCHEM., GERMAN—C. S. Shah, DrSc *Fran.*, BSc; PHYSIOL., PHARMACOL.—H. R. Derasari, BSc MB BS. 9 other Lectrs.

AHMEDABAD, *Mafatlal Gagalbhai Science Institute*, Navrangpura, Ahmedabad, 9 (tel.: 7457). Founded 1937. BSc, MSc, PhD. Principal & Prof. of CHEM.—R. D. Desai, BA MSc *Bom.*, DSc *Lond.*, FRIC, FNI; MATHS.—K. R. Dave, MSc; PHYS.—N. J. Patel, MSc; BIOL.—.....; M. S. Dubale, PhD; GEOL. AND GEOG.—S. Mukherjee, MSc. 45 other Profs., Lectrs. and Tutors.

AHMEDABAD, *Physical Research Laboratory*, Navrangpura, Ahmedabad, 9 (tel.: 7076). Founded 1948. MSc and PhD in Phys. Dir. & Prof. of ATMOSPHERIC PHYS.—K. R. Ramanathan, MA DSc, FNI; COSMIC RAYS PHYS.—V. A. Sarabhai, MA PhD *Camb.*; R. P. Kane, MSc PhD; ELECTRONICS—U. D. Desai, MSc PhD; THEORET. PHYS.—S. P. Pandya, MSc PhD.

AHMEDABAD, *Prakash Arts College*, Ahmedabad. Founded 1957. IA, BA. Principal & Prof. of ENGL.—C. N. Patel, MA. 12 other Lectrs. and Tutors, and 1 Phys. Trg. Instr.

AHMEDABAD, *St. Xavier's College*, Ahmedabad, 6 (tel.: 7986). Founded 1955. BA. Principal—Rev. H. A. de Souza, MA *Col.*, PhL *Rome*, STL *Comillas*, PhD *Fordham*; Vice-Principal & Prof. of ECON.—F. Braganza, MA *Col.*; ENGL.—J. Braganza, MA *Col.*, BA LPh *Rome*. 6 Profs., 32 Lectrs. and Tutors, and 1 Phys. Trg. Instr.

AHMEDABAD, *Sardar Vallabhbhai Arts and Commerce College*. Founded 1960. ICom, BA. Principal & Prof. of ECON.—C. J. Patel, MA. 13 Lectrs.

AHMEDABAD, *Sheth Haridas Acharatlal College of Commerce*, Ellisbridge, Ahmedabad, 6 (tel.: 7028). Founded 1956. BCom. Principal—M. C. Desai, MA LLB. 19 other Lectrs.

AHMEDABAD, *Sheth K.M. Postgraduate School of Medicine and Research*, Ellisbridge, Ahmedabad, 6 (tel.: 7601). Founded 1931. MD and MS Pt. II. Dir. & Prof. of SURG.—M. D. Desai, MB MS *Madr.*, MChOrth *Liv.*, FRCS; SURG.—M. D. Patel, DLO *Lond.*, MB BS, FRCS; MED.—K. C. Gupta, MD BS; G. R. Kamat, MD BS; OBSTET. AND GYNÆCOL.—Miss Saudamini C. Pandya, MB BS *Bom.*, MD. 11 other Profs. and Lectrs.

AHMEDABAD, *Shreyas Arts and Science Intermediate College*, Khajuri Bungalow, Ahmedabad, 4 (tel.: 3227). Founded 1955. IA, ISc. Principal & Prof. of ENGL.—B. A. Sarabhai, BA *Bom.* & *Oxon.* 12 Lectrs.

AHMEDABAD, *Shri Swaminarayana Arts & Science College*, Citamandir Road, Ahmedabad (tel.: 51849). Founded 1956. BA. Principal & Prof. of GUJARATI—P. H. Bhatt, MA; ECON.—G. K. Bhatt. 20 other Lectrs.

AHMEDABAD, *Sir Lallubhai A. Shah Law*

*College*, Ellisbridge, Ahmedabad, 6 (tel.: 7028). Founded 1927. LLB, LLM. Principal & Prof. of CONTRACT, TRANSFER OF PROPERTY AND HINDU LAW—M. S. Pandit, BA LLB; ELEMENTS OF CONST.—.....; INDIAN PENAL CODE—V. K. Desai; CONTRACTS—I. M. Nanavati, BCom LLB; CIVIL PROCEDURE CODE—B. K. Gandhi; MOHD. LAW, ETC.—S. S. Belsare, BA LLB; EVIDENCE AND INDIAN PENAL CODE—D. C. Trivedi, MA LLB. 16 other Lectrs.

ALIABADA, *Darbar Gopaldas Mahavidyalaya*, Halar, Saurashtra State. Founded 1953. BA. Principal & Prof. of GUJARATI—M. S. Patel. 4 Profs., 5 other Lectrs. and Tutors.

BHAVNAGAR, *Mangaldas Jeshingbhai College of Commerce*, Saurashtra State. Founded 1949. BCom, MCom. Principal & Prof. of BUS. ORGNS.—S. C. Pathak, MCom; ENGL.—P. P. Mehta, MA; BANKING AND SCIENTIFIC METHODS—H. D. Narayan, MCom; ACCOUNTING AND AUDITING—J. G. Mankad, BCom. 11 other Profs., Lectrs. and Tutors.

BHAVNAGAR, *Samaldas College and Sir P. P. Institute of Science*, Saurashtra State. Founded 1885. MA, BSc, MSc, PhD. Principal & Prof. of MATHS. AND PHYS.—J. B. Sandil, MSc; MATHS.—S. S. Dave, MSc; HIST. AND ECON.—I. J. Dhruv, MA; ENGL.—V. J. Trivedi, MA; GUJARATI—I. R. Dave, MA; CHEM.—H. M. Mapara, MSc; BIOL.—P. J. Chandukar, MSc; PHYS.—K. L. Narsinham, BA *And.*, MSc *Ban.* 42 other Profs., Lectrs. and Demrs.

BHUJ, *R.R. Lalan Intermediate College*, Kutch, Bhuj. Founded 1953. BA. Principal & Prof. of ENGL.—Y. D. Bhavne, MA; ENGL.—H. D. Dave, MA; CHEM.—A. G. Munshi, MSc PhD; GUJARATI—C. A. Shukla, MA. 15 other Lectrs. and Demrs., 1 Phys. Trg. Instr.

BROACH, *Jayendrapuri Arts and Science College*. Founded 1955. ISc, BA. Principal & Prof. of MATHS.—K. V. Desai, MSc. 3 Profs., 18 Lectrs., 1 Tutor, 1 Phys. Trg. Instr.

BULSAR, *Science and Arts College*, Bulsar. Founded 1957. IA, ISc, BA. Principal & Prof. of CHEM.—K. G. Naik, MA DSc *Lond.* 23 other Lectrs., Demrs. and Tutors.

CAMBAY, *Shri Rajani Parekh Arts College*. Founded 1960. IA. Principal & Prof. of GUJARATI—P. Chandravakar, MA. 6 Lectrs.

DABHOI, *Arts College*, Dabhoi. Founded 1958. IA. Principal & Prof. of GUJARATI—B. P. Kothari, MA. 7 other Lectrs.

DWARKA, *Shri Shardapith Arts College*. Founded 1960. IA. Principal & Prof. of SANSKRIT—D. P. Joshi, MA LLB. 6 Lectrs.

GODHARA, *Sheth P.T. Arts and Science College*. Founded 1960. IA, ISc. Principal & Prof.—C. C. Shah, MSc. 9 Lectrs.

JAMNAGAR, *Ayurvedic Mahavidyalaya*, Jamnagar. Founded 1956. BAMS. Principal & Prof. of SHARIR RACHANA—V. V. Vaidya; ROGANIDAN—

KAYACHIKITSA—K. P. Vyas, LAM Ayurveda-charya. 22 other Profs., Lectrs. and Demrs.

JAMNAGAR, *D.K.V. Arts & Science College*, Jamnagar. Founded 1956. IA, BA, ISc, BSc. Principal—A. M. Raval, MA. 2 Profs., 8 Lectrs.

JAMNAGAR, *M.P. Shah Medical College*. Founded 1955. 1st MB BS. Principal & Prof. of PHYSIOL.—P. C. Rakshit, MSc PhD MB BS; PATHOL.—H. H. Shah, MD; SURG.—P. P. Sheth, FRCS; GYN&COL.—S. M. Sen, MS MO DGO. 2 other Profs., 20 Lectrs.

JUNAGADH, *Agriculture College*. Founded 1960. Sc(Agr). Principal & Prof. of PLANT PATHOL.—J. K. Desai. 10 Lectrs.

JUNAGADH, *Bahauddin College*, Saurashtra State. Founded 1901. MA, MSc. Principal & Prof. of ENGL.—N. N. Bharucha, MA; MATHS.—L. R. Rao, MSc; BIOL.—G. A. Kapadia, MSc; HYS.—S. S. Joshi, BSc PhD; CHEM.—S. A. Kashnav, MSc; ECON.—P. N. Joshi, MA. 18 other Profs. and Lectrs.

MANSA, *L.H. Science and S.D. Arts Intermediate College*. Founded 1960. IA, ISc. Principal & Prof. of BOT.—C. M. Patel, MSc. 9 Lectrs.

MODASA, *Sir P.T. Arts and S.K. and Shri Krishnalal Arts College*. Founded 1960. IA, Sc. Principal & Prof. of GUJARATI—D. P. Baker, MA PhD. 9 Lectrs.

MORVI, *H.H. Mahendrasinji Science and M.N. Lehta Arts College*. Founded 1960. IA, ISc. Principal & Prof. of GUJARATI—V. G. Upadhyay, BA. 9 Lectrs.

MORVI, *Lukhdhirji Engineering College*, Saurashtra State. Founded 1951. BE (Civil, Electr. Mech.). Principal—M. S. Yajnik, BSc(Eng); VII ENGIN.—M. D. Bhojani, BE(Civil); APPL. PHYS.—L. T. Patil, MA. 39 other Lectrs. and Demrs.

NADIAD, *I.V. College of Commerce*. Founded 1960. ICom. Principal & Prof. of ECON.—S. R. Lehta, MA. 6 Lectrs.

NADIAD, *Jethabhai Jhaverbhai College of Science C. B. Patel Arts Institute*. Founded 1947. BA, BSc, MA, MSc. Principal & Prof. of CHEM. M. D. Avasare, BA MSc PhD, FRIC, FNI; EM.—K. N. Chokshi, MSc BT Bom.; MATHS. Hassan Darshan Singh, MA; PHYS.—M. M. Tel, MSc; ZOOL.—N. L. Naik, MSc; BOT.—S. Toor, MSc; GUJARATI—R. M. Patel, MA BT Bom.; R. N. Pandya, MA; ENGL.—B. J. Pandya, MA; HIST. AND ECON.—R. N. Desai, A PhD. 22 other Lectrs., Demrs. and Tutors.

NAVSARI, *Sorabji Burjorji Garda College and P. Baria Science Institute*. Founded 1945. A, MSc, PhD. Principal & Prof. of PHILOS.—K. Trivedi, MA LLB; BIOL.—B. P. Menon, A Madr.; CHEM.—R. D. Advani, MSc; MATHS.—S. R. Gothivrekhar, MA MEd LLB; GUJARATI—J. S. Joshi, MA; PHYS.—V. N. Padhyaya, MSc; PERSIAN—M. F. Quraishi,

MA; MICROBIOL.—W. V. Kotasthane, MScTech Manc., MSc Bom.; SANSK.—.....; HINDI—Mrs. Suddha J. Phadke, MA. 31 other Profs., Lectrs. and Demrs.

PETLAD, *Petlad College*. Founded 1946. IA, BSc. Principal, S. V. Shah, BSc PhD; SANSK.—B. M. Dhruva, MA PhD; LOGIC—J. G. Joglekar, MA; MATHS.—D. K. Patwardhan, MSc. 14 other Lectrs. and Demrs. 1 Phys. Instr.

PILVAI, *Umedram Panchal Arts College and Sarvedaya Science College*. Founded 1960. IA, ISc. Principal & Prof. of CHEM.—M. S. Shah, MSc PhD. 9 Lectrs.

PORBANDER, *Mahila Mahavidyalaya*. Founded 1955. BA. Principal—J. G. Shah. 9 Lectrs. and Tutors.

PORBANDER, *Ramba Graduate Teachers' College*. Founded 1955. BEd. Principal—H. E. Hakim, MA BT MEd. 8 Lectrs.

RAJKOT, *A.M. Parekh Law College*. Founded 1955. LLB. Principal & Prof. of LAW—H. S. Sanghavi, MA LLB. 7 other Profs. and Lectrs.

RAJKOT, *Dharmendrasinhji College & Kotak Institute of Science*, Saurashtra State. Founded 1937. MA, MSc. Principal & Prof. of ENGL.—G. R. Kotwal, MA BLitt Oxon.; ECON., INDIAN ECON. PROBLEMS—R. R. Mishra, MA LLB; FRENCH—M. G. Desai, MA LLB; PHYS.—P. Y. Deshpande, MSc PhD; SANSK.—.....; LOGIC AND PHILOS.—U. D. Bhatt, MA; MATHS.—K. M. Shah, MSc BT Bom. 32 other Profs., Lectrs. and Demrs.

RAJKOT, *Shri Popatlal Dhanjibhai Malaviya College of Commerce*. Founded 1957. ICom, BCom. Principal & Prof. of COMM. AND ECON.—J. H. Adhvaryu, MA PhD. 4 Profs., 10 Lectrs., 2 Tutors.

SURAT, *Kikabhai Premchand College of Commerce*, Athva Lines. Founded 1946. MCom. Principal—A. R. Desai, MA Bom., MSc(Econ) Lond. ACCOUNTS, CO-OPERATION AND RURAL DEVEL., ETC.—R. N. Bhatt, MCom; MATHS. AND STATS.—K. M. Talati, MA; ENGL.—R. L. Keswani, MA; ECON.—..... 13 other Lectrs., 1 Phys. Trg. Instr.

SURAT, *Maganlal Thakordas Balmukunddas College*, Athva Lines. Founded 1918. MA, MSc, PhD. Principal & Prof. of ENGL.—K. L. Desai, BA Camb., MA LLB; GUJARATI—V. R. Trivedi, MA; SANSKRIT AND ARDHAMAGADHI—J. T. Parikh, MA; URDU AND ARABIC—T. H. Shamshi; GEOG.—P. N. Modak, MSc Nag.; HIST. AND ECON.—P. C. Joshi, MA Agra; MATHS.—S. Ramkrishnan, MSc. 5 other Profs., 12 Lectrs., 3 Tutors and 2 Phys. Trg. Instrs.

SURAT, *O.H. Nazar Ayurvedic Mahavidyalaya*, Surat. Founded 1958. I & II BAMS. Principal & Prof. of DRAVYAGUNA—B. G. Shah; Vice-Principal & Prof. of NIDAN CHIKITSA—R. N. Desai, Ayurvedacharya.

**SURAT, Sarvajani Law College, Athva Lines.** Founded 1935. LLB, LL.M. Principal & Prof. of ENGL., HINDU LAW, EQUITY, ETC.—C. D. Vyas, MA LL.M. 4 other pt.-time Profs. and Lectrs.

**SURAT, Sarvajani College of Science.** Founded 1960. BSc. Principal & Hd. of Dept. of PHYS.—M. S. Desai. 3 Profs., 12 Lectrs.

**SURENDRANAGAR, M.P. Shah Arts & Science College, Surendranagar.** Founded 1956. IA, ISc, BA. Principal—M. M. Parekh, MSc PhD, FRIC; HIST. AND ECON.—R. B. Shrivastava, MA. 2 Profs., 8 Lectrs.

**TALOD, Sheth H.P. Arts and Shrimati S.M.S.**

**Panchal Science Intermediate College.** Founded 1960. IA, ISc. Principal & Prof. of GUJARATI—R. G. Bhatt. 9 Lectrs.

**VERAVAL, Shri Somnath College.** Founded 1960. IA, ISc. Principal & Prof. of PHILOS.—I. V. Trivedi, MA. 6 Lectrs.

**VISNAGAR, Meneklal Nanchand College.** Founded 1946. MA, MSc. Principal & Prof. of GUJARATI—K. B. Vyas, MA; LOGIC AND PHILOS.—V. M. Kulkarni, MA; PERSIAN—A. S. Kadri, MA; BIOL.—H. V. Kashyap, MSc PhD. 33 other Profs., Lectrs. and Demrs.

## GENERAL INFORMATION

Following upon the report of a cttee. under the chairmanship of the Hon. G. V. Mavalankar, an act was passed in 1949 by the Bombay legislature for the establ. and incorporation of the Gujarat Univ. as a teaching and affiliating univ. in the province of Bombay.

Postgrad. teaching and res. is carried out in the 4 univ. depts., 5 recognized instns., and 59 postgrad. centres for teaching establ. in affiliated colls. in the univ. area.

**CONSTITUTION.** There are 3 principal academic and executive bodies, viz. senate, syndicate and academic council. The senate is largely composed of elected members in different constituencies representing different academic groups such as registered grads., teachers, secondary teachers. The principals of affiliated colls. and hds. of recognized instns. and a few persons holding public offices are *ex-officio* members. There are also 20 members nominated by the chancellor. The syndicate, the principal executive body, also has elective membership. The members of the senate and appropriate constituencies in this behalf elect the syndicate for a term of 3 yrs. The academic council is largely concerned with all academic matters such as courses of study, standards of passing and classes, text-books, etc. Every chairman of the bd. of study is an *ex-officio* member of the academic council. In addition, it has 3 representatives each of the principals and hds. of recognized instns. The vice-chancellor, registrar, deans of facs. and hds. of univ. depts. are the other *ex-officio* members of the academic council.

**INCOME (1958-59).** Govt. grants, Rs. 819,061 (recurring), Rs. 658,403 (non-recurring); endowments, Rs. 80,275; fees, Rs. 1,835,395; other sources, Rs. 233,403.

**FACULTIES AND DEANS.** Agric., Y. T. Desai, BAg Bom.; MSc(Econ) Lond.; arts, K. L. Desai; Ayurvedic med., . . . . .; comm., Principal S. V. Desai, MA; law, H. P. Shukla; med., S. B. Anklesaria, MD BS; sci., Y. G. Naik, MSc PhD; technol., T. A. Desai, MIE(India).

**LIBRARIES.** 52,501 vols.

**FIRST DEGREES.** 4 yrs.—BA general or special, BCom, BSc. 3 yrs. after ISc—BE (civil, mech. & electr.), BPharm. 5½ yrs. after ISc—MB BS, 2 yrs. after IA, ISc or ICom (or 2 yrs. after BA, BSc or BCom)—LLB.

**HIGHER DEGREES.** MA (2 yrs. after BA gen. or spec.); MCom (2 yrs. after BCom); BEd (1 yr. postgrad.); MEd (1 yr. after BEd); MSc (1 yr. after BSc); ME (2 yrs. after BE); LLM (2 yrs. after LLB); MPharm (2 yrs. after BPharm); BSc(Med) (1 yr. after MB BS); MSc(Med), MD, MS (each 2 yrs. after MB BS); PhD (3 yrs. after bachelor's degree or 2 yrs. after master's degree); DSc (2 yrs. after PhD or 3 yrs. after master's degree or 6 yrs. after bachelor's degree); DLitt (2 yrs. after PhD or 3 yrs. after master's degree or 7 yrs. after bachelor's degree).

**EXTERNAL DEGREES.** The univ. holds external exams. in arts up to BA general and BA special standards. Only candidates whose mother tongue is Gujarati or who have lived in the state for 6 mos. prior to their applicn. for registration are eligible to enrol for external exams.

**DIPLOMAS.** Undergrad.: TD, 1 yr.; Dip Pharm, 2 yrs. Postgrad.: labour welfare (DIW), 2 yrs.

**FEES.** Examination. BA general and special; internal, Rs. 50, external, Rs. 75; MA, Rs. 75; BCom, Rs. 50; MCom, Rs. 100; BEd, Pt. I, Rs. 15; BEd, Pt. II, Rs. 15; MEd, Rs. 75; BSc (principal), Rs. 50; BSc (subsidiary), Rs. 35; MSc, Rs. 100; BE (civil, mech. & electr.), Rs. 100 each; ME, Rs. 100; LLB, Rs. 60; LLM, Rs. 150; MB BS, Rs. 75; BPharm, Rs. 75; MPharm, Rs. 200; MD, Pt. I, Rs. 100; MD, Pt. II, Rs. 200; MS, Pt. I, Rs. 100; MS, Pt. II, Rs. 200; BSc (medical), Rs. 100; MSc (medical), Rs. 200; PhD (by thesis), Rs. 100; PhD (French & German translation), Rs. 25. Tuition (in postgrad. schs. of the univ.): arts & maths., Rs. 75 per term; sci., Rs. 125 per term.

**ACADEMIC YEAR.** Two terms. Term dates (approx.): June 15 to Oct. 15; Nov. 5 to March 15 (med., April 15).

LANGUAGE OF INSTRUCTION. Gujarati.

STUDENT RESIDENCES. Each affiliated coll. provides hostel accomm. for its own students. Fees vary from coll. to coll.

NATIONAL CADET CORPS. 4th & 7th Bombay, and 1st Saurashtra bns.; 1st Bombay E.M.E.; 4th Bombay Girls troop; Surat indep. co.; Bhuj indep. co.; Bhuj Saurashtra E.M.E.

STUDENT HEALTH SERVICE. Full-time med. officer. All new entrants to univ. medically examined; free surgical and medical aid in

appropriate cases. New student health centre on univ. campus planned (approx. cost: Rs. 200,000).

STUDENTS' UNIONS. In this mainly affiliating univ. there is no central student organization. Each affiliated college has its own students' union which normally arranges cultural, sporting and extracurricular activities for the students.

PUBLICATIONS. *Annual Report*; *Handbook, Part I* (Rs. 2); *Handbook, Parts II* (1958 edition, Rs. 12) and *III* (vol. I, Rs. 2.62; vol. II, Rs. 3.37); *Univ. Bulletin* (Rs. 1; annual sub., Rs. 4); *University Journal: Vidya* (Rs. 3).

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, March 31, 1959

	<i>Full-Time</i>	<i>Part-Time</i>	<i>External</i>
Men .	23,993		} 9473
Women .	4,583		
Total	28,576	—	9473

*Included in the figures above are :—*

Intermediate or Pre-University students, 21,892.

Postgraduate students, 985.

New admissions (full-time), 14,693 (incl. students coming from other univs.).

Students from other countries, nil.

DEGREES AWARDED (1958-59). *Agric.*: BSc (Agri), 9; MSc(Agri), 3. *Arts* (incl. educn.): BA, 1242; MA, 122; BEd, 113; MEd, 6; PhD (arts), 5. *Comm.*: BCom, 293; MCom, 16; PhD (comm.), 1. *Engin.*: BE, 145; ME, 2. *Law*: LLB, 256; LLM, 4. *Med.*: MB BS, 33; MS, 3; MD, 8; BSc(Med), 1; BPharm, 49; MPharm, 8. *Sci.*: BSc, 505; MSc, 90; PhD (sci.), 6.

# UNIVERSITY OF JABALPUR\*

Founded 1957

*Postal Address* : Jabalpur, Madhya Pradesh, India

*Cables and Telegrams* : University, Jabalpur

*Telephones* : Jabalpur 712, 713, 715

CHANCELLOR—H. V. PATASKAR, BA LLB, Governor of Madhya Pradesh

PRO-CHANCELLOR—S. D. SHARMA, PhD *Camb.*, MA LLM, Minister of Education of the State of Madhya Pradesh

VICE-CHANCELLOR—Pandit K. L. DUBEY, BA LLB

RECTOR—U. MISRA, MA LLB

TREASURER—S. K. PATERIA, MA

REGISTRAR—K. R. PANDYA, MA

## TEACHING STAFF

(Teachers recognized as Professors by the University)

### Agriculture

Gupta, R. L., BA Ag PhD

### Economics

Bhargava, R. N., MA DLitt

### Education

Misra, A., MA BSc LLB BT DLitt

### Engineering, Civil

Lakshmanaswamy, A., ME

### Engineering, Telecommunication

Sarvate, V. V., MSc MA

### English

Sen Gupta, S. C., MA PhD

### Entomology

Gupta, R. L., BA Ag PhD

### History

Sinha, H. N., MA PhD *Lond.*

### Medicine

Sachdeva, J. C., MSc PhD MB BS (Physiol.)

Bhonsle, Mrs. I. N., MB BS

(Obstet. & Gynaecol.)

Mishra, M. P., MD BS DTM&H (Med.)

Rao, Y. G., MB BS (Anat.)

Goswami, S. L., MD BS

(Pharmacol. & Therapeutics)

Wahi, P. N., MD BS (Pathol. & Bacteriol.)

Koshal, K. D., MB BS, FRCS (Surg.)

Bhargava, R. P., MB BS (Physiol.)

Chowdhary, D. S., MB MS DOMS

PhD (Anat.)

Chaudhary, M. S., BSc MD BS (Physiol.)

### Philosophy

Sharma, C. D., MA DPhil DLitt *Alld.*

### Physics

Mukerjee, U., MSc

### Sociology

Motwani, K., MA PhD

### Veterinary Science

Mangrulkar, M. Y., MSc DTVM *Edin.*

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : K. P. Govil, BCom LLB. DipPhysEd. Univ. Engineer : U. C. Jain, BE.  
Dir. of Phys. Educn. : C. S. Rathore, MA

\* Member of the Association of Universities of the British Commonwealth

**AFFILIATED COLLEGES\***

[BA, BCom, etc., after the name of a coll. means that courses are provided there for BA, BCom, etc.]

D. N. JAIN MAHAVIDYALAYA (1949) (tel. : 812).  
B.Com, BA, BCom, MA, MCom. Principal—  
B. S. Audholia, MA BCom. 21 Teachers.

GOVERNMENT COLLEGE OF AGRICULTURE (1955)  
(tel. : 708). BSc(Agr), MSc(Agr). Principal—  
R. L. Gupta, BAg PhD. 24 Teachers.

GOVERNMENT ENGINEERING COLLEGE (1947)  
(tel. : 128). BE (hons.), ME. Principal—V. M.  
Dokras, MSc PhD Col. 48 Teachers.

GOVERNMENT MEDICAL COLLEGE (1955) (tel. :  
221). MB BS. Dean—J. C. Sachdev, MSc  
PhD MB BS. 49 Teachers.

GOVERNMENT POLYTECHNIC (1955) (tel. : 647).  
Dipl. in Engin. Principal—R. L. Bhattacharya,  
BSc(Engg). 42 Teachers.

GOVERNMENT VETERINARY COLLEGE (1948) (tel. :  
41). BVSc, MVSc. Principal—M. Y. Man-  
gulkar, MSc DTVM Edin. 17 Teachers.

G.S. COLLEGE OF COMMERCE AND ECONOMICS  
(1948) (tel. : 130). BCom, MCom, MA. Prin-  
cipal P. L. Baldua, MA BCom. 21 Teachers.

HAWARAGH 'TEACHERS' TRAINING COLLEGE FOR  
WOMEN (1928) (tel. : 345). Dip'T, Dipl. in  
Nursery Educn. Principal—Miss Zillah L.  
Soule, MA MED. 20 Teachers.

HITKARINI LAW COLLEGE (1933). LLB. Prin-  
cipal—S. C. Upadhyaya, MA LLB. 4 Teachers.

HITKARINI MAHAVIDYALAYA (1933) (tel. : 327).  
BA, MA. Principal—N. M. Deshpande, MA  
LLB. 17 Teachers.

INSTITUTE OF LANGUAGES AND RESEARCH (1956)  
(tel. : 696). Management transferred to univ.

from 1/4/60 for 5 yrs. initially. Doctorate degrees  
in Sanskrit, Hindi, Engl., Hist. Dir.-in-charge—  
H. N. Sinha, MA PhD Lond. 3 Teachers.

MAHAKOSHAI MAHAVIDYALAYA (1936) (tel. :  
680). BA, BSc, MA, MSc. Principal—U.  
Mukerjee, MSc. 118 Teachers.

MAHILA MAHAVIDYALAYA (1944) (tel. : 946).  
BA. Principal—G. M. Ranade, MA BT. 10  
Teachers.

M.H. COLLEGE OF HOME SCIENCE FOR WOMEN  
(1954) (tel. : 146). BA, ISc, BHSc. Principal—  
Mrs. K. Mehta, MA BT. 47 Teachers.

NEW EDUCATION SOCIETY LAW COLLEGE (1956).  
LLB. Principal—R. C. Sanghi, MA LLB. 3  
Teachers.

POSTGRADUATE BASIC TRAINING COLLEGE (1954)  
(tel. : 660). BT(Basic), MEd. Principal—G. Y.  
Tankhiwale, MSc BT. 7 Teachers.

PRANTIYA SHIKSHAN MAHAVIDYALAYA (1889)  
(tel. : 193). Dip'T, B'T, MA(ApplPsychol), MEd.  
Principal—A. Misra, MA BSc LLB BT DLitt.  
46 Teachers.

ST. ALOYSIUS' COLLEGE (1951) (tel. : 718).  
BA, BSc. Principal—Rev. H. Van Engelen, MA.  
17 Teachers.

SIHYAM SUNDER AGARWAL COLLEGE, Sihora  
(District Jabalpur) (1957). BSc, BA. Principal—  
M. C. Agarwal, MA MSc BT. 11 Teachers.

TILAK RASHTRIYA MAHAVIDYALAYA, Katni  
(District Jabalpur) (1958). BA, BSc. Principal—  
L. K. Gokhale, MSc. 8 Teachers.

**GENERAL INFORMATION**

Although the Univ. of Jabalpur is among the youngest of the univs. of India, the city of Jabalpur is one of the oldest centres of univ. educn. in India. The Radhakrishnan commission recognized the 'traditions of higher education' in Jabalpur and suggested that a unitary univ. might be developed there. This proposal was further examined by the Cttee. on the Financing of Education of Madhya Pradesh, apptd. by the state govt., which recommended (in 1952) 'the immediate establishment of a univ. of the federal type at Jabalpur'. The second 5-yr. plan for the former state of Madhya Pradesh included a scheme for the establishment of a univ. at Jabalpur and an act setting up the univ. came into force in 1957.

Almost all the colls. affiliated to the univ. are in the city of Jabalpur, the univ.'s territorial jurisdiction being restricted to the revenue district

of Jabalpur. It is intended to develop the univ. along federal lines and to encourage the maximum intercollegiate co-operation, especially in relation to postgrad. courses and the development of a corporate life for the univ. as a whole. The academic council of the univ. frames the annual teaching programmes of the colls. as a whole and the recognition of profs. & readers and the appt. of teachers of private constituent colls. is normally made on the recommendation of the selection cttees. of the univ. Colls. which provide postgrad. courses in at least 2 subjs. and fulfil certain other conditions are to be treated as 'constituent colls.' and will be more closely linked to the univ. than the affiliated colls.

CONSTITUTION. The present vice-chancellor holds his office in an honorary capacity, there being a full-time rector. There are 10 facs. (see

\* Except for the S.S.A. and T. R. Mahavidyalaya, Katni, all are in Jabalpur



*below*) and 36 depts. of study subordinate to them. In the constitution of the univ. bodies, the element of election has been kept to a minimum; while the functions of the court, academic council and executive council are similar to those of the corresponding bodies in other Indian univs., membership of them will in most cases be *ex officio* according to seniority by rotation or by nomination. The registered grads., however, elect 20 members to the court.

**INCOME (1959-60).** Maintenance grant from state govt., Rs. 90,000; devel. grants from state govt. and univ. grants commission, Rs. 250,000 and Rs. 50,000 respectively; exam. and other fees, Rs. 426,661.

**FACULTIES AND DEANS.** *Agric.*, Dr. R. L. Gupta (entomol.); *arts*, . . . . .; *comm.*, B. S. Audholia; *educn.*, Dr. A. Misra; *engin.*, A. Lakshmanaswamy (civil engin.); *home sci.*, Mrs. K. Mehta; *law*, Justice T. C. Shrivastava; *med.*, Dr. J. C. Sachdeva (physiol.); *sci.*, U. Mukerjee (phys.); *vet. sci.*, M. Y. Mangrulkar.

**UNIVERSITY PRECINCT.** The present univ. offices are in the Shaheed Smarak Bhavan, Jabalpur. Construcn. of convocation hall & admin. bldgs. on a 61-acre site given to the univ. by the state govt., nr. the Mahakoshal Mahavidyalaya (the oldest coll. in the state and the principal univ. centre of postgraduate work), is nearing completion. Construcn. of a non-resident student centre, arts bldg. and univ. library will be started by October 1960.

**LIBRARY.** 6107 vols.

**FIRST DEGREES.** 3 yrs.—BA, BSc, BHSc, BCom; 4 yrs.—BE (hons.), BSc(Agr), BVSc; 4½ yrs.—MB BS.

**HIGHER DEGREES.** 1 yr.—BEd, BEd(Basic), MEd; 2 yrs.—LLB, MA, MA(ApplPsychol), MSc, ME, MSc(Agr), MCom, MVSc; 2 yrs. from master's degree—PhD.

**DIPLOMAS.** 1 yr.—economic planning; 2 yrs.—nursery educn., teaching; 3 yrs.—engin.

**ORIENTAL TITLES.** 2 yrs.—Prajna, Visharad (1 yr. for BAs with Sansk.); 3 yrs.—Shastri (1 yr. for MAs with Sansk.).

**STUDY LEAVE.** Rules for teachers in univ. depts. are at present under consideration.

**FEES.** Rs. 126 per session.

**ACADEMIC YEAR (1960-61).** July to April, 3 terms. Term dates: July 1 to Oct. 8; Oct. 20 to Dec. 24; Jan. 2 to April 30.

**LANGUAGE OF INSTRUCTION.** Hindi for IA, BA, ISc(HomeSci), BHSc, ICom, BCom, ISc, DipT, dipl. in nursery educn. Other courses in English.

**POSTGRADUATE AWARDS.** Res. fellowships of Rs. 200 each, tenable for 2 yrs., awarded annually by univ. for study leading to PhD.

**N.C.C. Sr. div. of N.C.C.:** authorized strength is 1204. 50 merit scholps. (value Rs. 10 p.m.) awarded to cadets.

**EMPLOYMENT ADVISER.** To help univ. grads. to secure suitable employment, a part-time employment adviser has been appointed.

**STUDENTS' UNION SOCIETY.** A univ. students' union has been formed, which runs a reading-room and library. The pres. and sec. are elected by the students themselves.

**PUBLICATIONS.** *Calendar*; prospectuses for exams.; journals of academic socs.

## THE YEAR 1959

**NEW DEPARTMENTS.** Postgrad. depts. of econ., Engl., hist., philos., pol. sci. and pub. admin., sociol.

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	6036	—
Women . . .	3036	—
Total	9072	

**Distribution by Faculties.** *Agric.*, 250; *arts*,

2537; *comm.*, 1335; *educn.*, 431; *engin.*, 1354; *home sci.*, 330; *law*, 362; *med.*, 331; *sci.*, 1837; *vet. sci.*, 305. Total: 9072.

*Included in the figures above are:—*

Postgraduate students (registered for PhD), 100.

**DEGREES AWARDED (1958-59).** *Agric.*: BSc (Agr), 50. *Arts*: BA, 323; MA, 141; MA (ApplPsychol), 15. *Comm.*: BCom, 97; MCom, 38. *Educn.*: MEd, 9; BT, 160; BT(Basic), 53. *Engin.*: BE (hons.), 122; ME, 5. *Home sci.*: BHSc, 33. *Law*: LLB, 41. *Sci.*: BSc, 86; MSc, 43. *Vet. sci.*: BVSc, 41.

# JADAVPUR UNIVERSITY\*

Founded 1955

Postal Address : P.O. Jadavpur University, Calcutta 32, India

Cables and Telegrams : Jadavpur University, Calcutta

Telephone : 46-6519

PRESIDENT—B. C. ROY, MD, MRCP, FRCS

RECTOR—T. SEN, DrIng *Munich*, MIE(India)

TREASURER—S. S. BAGCHI, BEE, MIE(India)

REGISTRAR—P. C. V. MALLIK, MA *Camb.*

CHIEF LIBRARIAN—A. K. MUKHERJEE, MA DipLib *Calc.*

## TEACHING STAFF

[† = Part-Time]

### UNIVERSITY COLLEGE OF ARTS

Principal—A. K. Datta, MA *Calc.*, BA *Oxon.*

#### Bengali

Bose, G. C., MA <i>Dacca</i>	Prof., Hd. of Dept.
Dutta, A. K., MA <i>Dacca</i>	Reader
Goswami, M. M., DPhil <i>Calc.</i>	Lectr.
Chatterjee, S. K., MA <i>Calc.</i>	Lectr.
Ghosh, P. R., MA <i>Calc.</i>	Lectr.
Goswami, K. P., DPhil <i>Calc.</i>	Lectr.
Bhattacharyya, D. P., MA <i>Calc.</i>	Lectr.
† Res. Asst.	

#### Comparative Literature

Bose, B., MA <i>Dacca</i>	Prof., Hd. of Dept.
Guha, N., MA <i>Calc.</i>	(on leave) Reader
Das Gupta, A. R., MA <i>Calc.</i>	Lectr.
Bhattacharyya, N. N., MA <i>Calc. &amp; Dacca</i>	Lectr.
Binepal, S. S., MA LLB <i>Calc.</i>	Lectr.
Fallon, Fr. P. S. J.	† Lectr.
Dev, A. K., MA	Lectr.
Dutta, S. N., BA <i>Calc.</i>	† Lectr.

#### Economics

Chakraborty, P., MA <i>Calc.</i>	Prof., Hd. of Dept.
Banerjee, H., DSc(Econ) <i>E.H. Rotterdam</i>	Reader
Sarvadhikary, P., MSc MA <i>Calc.</i>	Reader
Datta, A. K., MA <i>Calc.</i>	(on leave) Lectr.
Banerjee, Mrs. Anita, BA <i>Calc. &amp; Camb.</i>	Lectr.
Das Gupta, A. K., BA <i>Calc. &amp; Camb.</i>	Lectr.
Majumdar, K. K., MA <i>Calc.</i>	Lectr.
Roy, P., MSc <i>Ill.</i>	Lectr.
Ghosh, A.	Lectr.
Sen Gupta, A.	Lectr.
Dasgupta, Mrs. Sipra, MA <i>Calc.</i>	Lectr.
† Res. Assts.	

#### English

Guha, P. K., MA <i>Dacca</i>	Prof., Hd. of Dept.
Dasgupta, R. K., DPhil <i>Calc. &amp; Oxon.</i>	Reader
Mukherjee, D., MA <i>Calc.</i>	(on leave) Lectr.
Chatterjee, V., MA <i>Calc.</i>	Lectr.
Sinha, B., MA BT <i>Calc.</i>	Lectr.
Guha Roy, G., DPhil <i>Calc.</i>	Lectr.
Mukherjee, N. B., MA <i>Calc.</i>	Lectr.
Dey, Mrs. Pranati, MA <i>Calc.</i>	Lectr.
Mitra, S. N., MA <i>Calc.</i>	Lectr.
Ganguly, N. L., MA <i>Calc.</i>	Lectr.
De, R. P., MA <i>Calc.</i>	Lectr.
Roy, S. N., MA <i>Calc.</i> , PhD <i>Lond.</i>	Lectr.
Ghosh, H. J., MA <i>Calc.</i>	Lectr.

#### History

Sarkar, S., MA <i>Oxon.</i>	Prof., Hd. of Dept.
Bhattacharya, S., MA <i>Calc.</i>	Reader
Mukherjee, B. P., MA <i>Calc.</i>	Reader
Bose, N. S., MA <i>Calc.</i> , PhD <i>Lond.</i>	Lectr.
Maity, S. K., MA <i>Calc.</i> , PhD <i>Lond.</i>	Lectr.
Sarkar, Sipra, MA <i>Calc.</i>	Lectr.
Mukherjee, A., MA <i>Calc.</i>	Lectr.
Majumdar, B. K., DPhil <i>Calc.</i>	(on leave) Lectr.
Guha, R., MA <i>Calc.</i>	Lectr.
Bose, Aparna, BA <i>Bom. &amp; Camb.</i> , MA <i>George Washington</i>	Lectr.
Choudhury, D., MA	Lectr.

#### International Affairs

Chakravarti, P. C., MA <i>Dacca</i> , PhD <i>Lond.</i>	Prof., Hd. of Dept.
Rehfeld, W., DPhil	† Prof.

Dutta, A. K., MA Calc., MSS *Inst. for Soc. Studies (The Hague)*, PhD Ley.  
 Mitra, Basanti, MA Col.  
 Roy, J. K., MA Calc.  
 Dhar, S. N., MA Calc.  
 Bose, T. C., MA Calc.  
 Bhattacharyya, G., MA *Dacca*  
 2 Visiting Lectrs.

Bhattacharyya, S. K., DPhil Calc. Lectr.  
 Sen, P. K., MA Calc. Lectr.  
 Mukherjee, M. L., MA Calc. Lectr.  
 Banerjee, D., MA Calc. Lectr.  
 Ganguly, A. K., MA Calc. Lectr.  
 Ganguly, S. N., MA Calc. Lectr.  
 Sastri, Pdt. P. Lectr.  
 Sen Gupta, P. K., MA Calc. Lectr.

### Language

Binepal, S. S., MA LLB Calc. †Lectr.  
 Rehfeld, W., DPhil †Lectr.  
 Sen, Mrs. Larissa †Lectr.

### Philosophy

Bhattacharyya, G. N., MA Calc. Prof., Hd. of Dept.  
 Banerjee, K. K., MA Calc. Reader

### Sanskrit

Bhaduri, S., PhD Calc. Prof., Hd. of Dept.  
 Mukherjee, R. R., DPhil Calc. Lectr.  
 Goswami, S. N., DPhil Calc. Lectr.  
 Bhattacharyya, G. M., MA Calc. Lectr.  
 Bhattacharyya, Mrs. Sukumari, MA Calc. Lectr.  
 Bhattacharyya, G. N., DI Lit Calc. †Lectr.  
 Chakravarti, M. K., MA LLB Calc. Lectr.  
 Bose, N. K., MA Lectr.

## UNIVERSITY COLLEGE OF ENGINEERING AND TECHNOLOGY

Principal—T. Sen, DrIng *Munich*, MIE(India)

### Chemical Engineering

Roy, T. K., MSc Calc., ScD *M.I.T.* Prof., Hd. of Dept.  
 Ghosh, B., MSc Calc., DSc *Carnegie Tech. Inst.* (on leave) Prof.  
 Dutta, D. K., BSc Calc., BChE MS *Carnegie Tech. Inst.* Prof.  
 Chanda, B. C., BChE DrRerNat *T.H.Aachen* Reader  
 Bose, N. K., MSc Calc., ScD Col. Reader  
 Roy Choudhury, K. C., BSc Calc., DrIng *T.H.Karlsruhe*, BChE Reader  
 Sen Gupta, K., MSc Calc. Lectr.  
 Sinha, A. P., BChE (on leave) Lectr.  
 Ghosal, S. R., BChE Lectr.  
 Mukherjee, S. K., BChE Lectr.  
 Dutta, P. C., BChE Lectr.  
 2 Visiting Lectrs., 7 Res. Assts.  
 Food Technology Division  
 Bose, A. N., MSc Calc., PhD *M.I.T.* Prof.  
 Ghosh, T. K., MChE DrScTech *E.T.H. Zürich* Reader  
 3 Visiting Lectrs., 1 Res. Asst.

### Civil Engineering

Roy, K., BSc Calc., BSc(Eng) *Lond.*, MICE Prof., Hd. of Dept.  
 Som, P. K., BE Calc., MSc(Eng) *Lond.* Prof.  
 Mitra, A. K., BE Calc. Reader  
 Choudhury, N., BE Calc. Reader  
 Sarma, A. K., BArch *Kharagpur* Lectr.  
 Choudhury, S., BE Calc. Lectr.  
 Ghosh, B. N., BE Calc. Lectr.  
 Sinha, A. K., BE Calc. Lectr.  
 Das, S. C., BTech *Kharagpur* Lectr.  
 Choudhury, T. K., BTech *Kharagpur* Lectr.  
 5 Visiting Lectrs.

### Electrical Engineering

Guha, H. C., BSc *Edin.*, MIEE Prof., Hd. of Dept.  
 Chowdhury, J. K., MSc Calc., MScTech *Manc.* Prof.  
 Deb, D. K., MS *Northwestern* Prof.  
 Das Gupta, S. C., BEE Prof.  
 Kar, M. M., BSc Calc., BEE Reader  
 Roy Bardhan, D. N., BEE Reader  
 Purkayastha, G. P., MS *Mich.*, BEE Reader  
 Patra, S., PhD *Manc.*, BEE Reader  
 Mondal, P. C., BSc Calc., BEE Lectr.  
 Sadhukhan, P. K., BEE Lectr.  
 Das, M. K., BEE (on leave) Lectr.  
 Roy, N. N., DrIng *T.H.Karlsruhe*, BEE Lectr.  
 Saha, A. R., MScTech Calc. Lectr.  
 Nag, S. K., BEE *Raj.* Lectr.  
 Dhar, R. N., BEE Lectr.  
 Dey, G. C., BEE (on leave) Lectr.  
 Bhattacharyya, S. N., BSc *Ban.*, MSc Calc. Lectr.  
 Mukhopadhyaya, P., BEE Lectr.  
 Roy, A. K., BEE Lectr.  
 Mandyopadhyay, P. K., BEE Lectr.  
 Mandal, R. K., MScTech Calc. Lectr.  
 Bandyopadhyay, S. R., BEE Lectr.  
 2 Visiting Lectrs.

### Humanities

Roy, K. C., MA Calc. Lectr.

### Mechanical Engineering

Sen, G. C., MS *Mich.* Prof., Hd. of Dept.  
 Chakraverti, S. K., BS *Worcester Poly. Inst.*, MA *Mich.* Prof.  
 Bhattacharyya, S. C., MSc Calc., DrIng *Berl.* Prof. Emeritus  
 Basu, A. K., BSc Calc. Prof.  
 Chatterjee, N. N., BSc Calc., MME Prof.

Ganguli, H. G.	Reader	Choudhury, P. C., BME	Lectr.
Mukherjee, B. C., EIH <i>Grenoble</i> , BME	Reader	Chakraborty, P. K., BME	Lectr.
Sen Gupta, M. S., BSc <i>Calc.</i> , BME		Das, S. K., BME	Lectr.
MS <i>Wash.</i>	Reader	Sen, P. K., BME	Lectr.
Ghosh, A. P., MME	Reader	Das, K. C., BME	Lectr.
Majumdar, B. B., MME	Reader	Bhowmik, M. N., BSc <i>Calc.</i> , BME	Lectr.
Banerjee, H. D., MME	Reader	Das, N. C., BME	Lectr.
Das, J. C., DrIng <i>T.H.Stuttgart</i> , BME	Reader	Das, A. K., BME	Lectr.
Roy, A. K., DrIng <i>Munich</i> , BME	Reader	Majumdar, K. P., BSc <i>Calc.</i> , BME	Lectr.
Chatterjee, K. C., MME <i>Corvallis</i>	Reader	Saha, B. B., BME	Lectr.
Pal, G. B., MME	Reader	Mallik, B. K., BME	Lectr.
Gupta, A. K., MME	Reader	Bhowmick, A. K., BME	Lectr.
Chanda, B. N., BME MS <i>Iowa</i> ,		Bose, B., BME	Lectr.
PhD <i>Colorado</i>	Reader	Datta, S., BME	Lectr.
Chakraborty, A. N., MME	Reader	Das Talukdar, N. K., BME	Lectr.
Roy, B. K., BME	(on leave) Reader	Kundu, K. N., BME	Lectr.
Banerjee, B. D., BME	Reader	Sen Gupta, N. B., BME	Lectr.
Ghosh, B. P., BME	Reader		
De, A. K., BME	Reader		
Sen Gupta, S. C.	Reader		
Das, B. L., BME	Reader		
De, P. C., BME	Lectr.		
Das, G. N., BME	Lectr.		
Roy, P. C., BME	Lectr.		
Bhaduri, S. N., BCom <i>Calc.</i> , BME	(on leave) Lectr.		
Sarkar, J. C., BME	Lectr.		
Chatterji, P. B., BME	Lectr.		
Kundu, N. C., BME	Lectr.		

### Telecommunication Engineering

Chatterjee, J. S., DPhil <i>Calc.</i> Prof., Hd. of Dept.	
Kundu, P., MSc <i>Calc.</i> , DipComEng	
<i>Chemsford</i>	Prof.
Banerjee, S. B., BE <i>Bom.</i> , DipEE <i>Kharagpur</i>	Reader
Ganguly, U. S., MTech	Lectr.
Sen, P. C., BEE	Lectr.
Nag, B., MScTech <i>Calc.</i>	Lectr.

### UNIVERSITY COLLEGE OF SCIENCE

Principal—A. K. Majumder, DSc *Calc.*

#### Chemistry, Inorganic

Majumder, A. K., DSc <i>Calc.</i> Prof., Hd. of Dept.	
De, A. K., DPhil <i>Calc.</i>	Reader
Sen, D., DPhil <i>Calc.</i>	Reader
Roy, N. N., DSc <i>Calc.</i>	Reader
Sen Gupta, J. G., MSc <i>Calc.</i> (on leave)	Lectr.
Chakraborty, A. K., MSc <i>Calc.</i>	Lectr.
Sen Sarma, K. P., MSc <i>Calc.</i>	Lectr.
Sen Gupta, A. K., MSc <i>Calc.</i>	Lectr.
Sur, B., MSc <i>Calc.</i>	Lectr.
Roy, A. K., DPhil <i>Calc.</i>	Lectr.
Goswami, B. K., MSc <i>Calc.</i>	Lectr.
Dutta, R. L., MSc <i>Dacca</i>	Lectr.
Guha, S., MSc <i>Dacca</i>	Lectr.
Mitra, B. K., MSc <i>Calc.</i>	Lectr.
Sen Sarma, R. N., DPhil <i>Calc.</i>	Lectr.
Gupta, P. K., MSc <i>Calc.</i>	Lectr.
Chatterjee, A. B., MSc <i>Calc.</i>	Lectr.
1 Res. Asst.	

#### Chemistry, Organic

Bhattacharyya, B. K., DSc <i>Calc.</i>	
Dutta, J., DPhil <i>Calc.</i>	Prof., Hd. of Dept.
Chatterjee, A., DPhil <i>Calc.</i> (on leave)	Reader
Banerjee, A., DPhil <i>Calc.</i>	Lectr.
De, P. K., MSc <i>Calc.</i>	Lectr.
Sen, K., <i>Calc.</i> (on leave)	Lectr.
Mukherjee, B. B., MSc <i>Calc.</i>	Lectr.
3 Res. Assts.	

#### Chemistry, Physical

Mukherjee, S. N., DSc <i>Calc.</i> Prof., Hd. of Dept.	
Das, M. N., DPhil <i>Calc.</i>	Reader
Rohatgi, K. K., MSc <i>Calc.</i> , DPhil <i>Oxon.</i>	Reader
Bhattacharyya, P. K., MSc <i>Calc.</i>	Lectr.
Pochhali, L., DPhil <i>Calc.</i>	Lectr.
Bhattacharyya, G. C., MSc <i>Calc.</i>	Lectr.
Roy, K. C., DPhil <i>Calc.</i>	Lectr.
2 Res. Assts.	

#### Geological Sciences

Deb, S., DresSc <i>Paris</i> , FNI Prof., Hd. of Dept.	
Mukherjee, B. C., MSc <i>Calc.</i> , FGS	Reader
Hore, P. N., MSc <i>Calc.</i>	Lectr.
Chakraborty, K. L., MSc <i>Calc.</i>	Lectr.
Chakraborty, P. S., MSc <i>Calc.</i>	Lectr.
Bhattacharyya, T. K., MSc <i>Calc.</i>	
DresSc <i>Nancy</i> (on leave)	Lectr.
Mitra, K. C., MSc <i>Lond.</i>	Lectr.
Sarkar, S. C., MSc	Lectr.
Ghosh, S. K., MSc <i>Calc.</i>	Lectr.
Roy, S., DPhil <i>Calc.</i>	Lectr.
Bhattacharyya, A. K., MSc	Lectr.
Basu, N. K., MSc <i>Calc.</i>	Lectr.
4 Visiting Lectrs., 1 Res. Asst.	

#### Mathematics

Sen, B. B., DSc <i>Calc.</i> , FNI Prof., Hd. of Dept.	
Mukherjee, D. N., MSc <i>Calc.</i>	Reader
Bhattacharyya, R., MSc <i>Calc.</i>	Reader
Bhattacharyya, R. N., MA <i>Calc.</i>	Reader

Dutta, A. K., MA <i>Calc.</i> , MSS <i>Inst. for Soc. Studies (The Hague)</i> , PhD <i>Ley.</i>	Lectr.	Bhattacharyya, S. K., DPhil <i>Calc.</i>	Lectr.
Mitra, Basanti, MA <i>Col.</i>	Lectr.	Sen, P. K., MA <i>Calc.</i>	Lectr.
Roy, J. K., MA <i>Calc.</i>	Lectr.	Mukherjee, M. L., MA <i>Calc.</i>	Lectr.
Dhar, S. N., MA <i>Calc.</i>	Lectr.	Banerjee, D., MA <i>Calc.</i>	Lectr.
Bose, T. C., MA <i>Calc.</i>	Lectr.	Ganguly, A. K., MA <i>Calc.</i>	Lectr.
Bhattacharyya, G., MA <i>Dacca</i>	Lectr.	Ganguly, S. N., MA <i>Calc.</i>	Lectr.
2 Visiting Lectrs.		Sastri, Pdt. P.	Lectr.
		Sen Gupta, P. K., MA <i>Calc.</i>	Lectr.

**Language**

Binopal, S. S., MA LLB <i>Calc.</i>	†Lectr.
Rehfeld, W., DPhil	†Lectr.
Sen, Mrs. Larissa	†Lectr.

**Philosophy**

Bhattacharyya, G. N., MA <i>Calc.</i>	Prof., Hd. of Dept.
Banerjee, K. K., MA <i>Calc.</i>	Reader

**Sanskrit**

Bhaduri, S., PhD <i>Calc.</i>	Prof., Hd. of Dept.
Mukherjee, R. R., DPhil <i>Calc.</i>	Lectr.
Goswami, S. N., DPhil <i>Calc.</i>	Lectr.
Bhattacharyya, G. M., MA <i>Calc.</i>	Lectr.
Bhattacharyya, Mrs. Sukumari, MA <i>Calc.</i>	Lectr.
Bhattacharyya, G. N., DLit <i>Calc.</i>	†Lectr.
Chakravarti, M. K., MA LLB <i>Calc.</i>	Lectr.
Bose, N. K., MA	Lectr.

**UNIVERSITY COLLEGE OF ENGINEERING AND TECHNOLOGY**Principal—T. Sen, DrIng *Munich*, MIE(India)**Chemical Engineering**

Roy, T. K., MSc <i>Calc.</i> , ScD <i>M.I.T.</i>	Prof., Hd. of Dept.
Ghosh, B., MSc <i>Calc.</i> , DSc <i>Carnegie Tech. Inst.</i>	(on leave) Prof.
Dutta, D. K., BSc <i>Calc.</i> , BChE	Prof.
MS <i>Carnegie Tech. Inst.</i>	
Chanda, B. C., BChE DrRerNat	Reader
T.H. <i>Aachen</i>	Reader
Bose, N. K., MSc <i>Calc.</i> , ScD <i>Col.</i>	Reader
Roy Choudhury, K. C., BSc <i>Calc.</i> ,	Reader
DrIng T.H. <i>Karlsruhe</i> , BChE	Reader
Sen Gupta, K., MSc <i>Calc.</i>	Lectr.
Sinha, A. P., BChE	(on leave) Lectr.
Ghosal, S. R., BChE	Lectr.
Mukherjee, S. K., BChE	Lectr.
Dutta, P. C., BChE	Lectr.
2 Visiting Lectrs., 7 Res. Assts.	
Food Technology Division	
Bose, A. N., MSc <i>Calc.</i> , PhD <i>M.I.T.</i>	Prof.
Ghosh, T. K., MChE DrScTech	Reader
E.T.H. <i>Zürich</i>	
3 Visiting Lectrs., 1 Res. Asst.	

**Civil Engineering**

Roy, K., BSc <i>Calc.</i> , BSc(Eng) <i>Lond.</i> ,	Prof., Hd. of Dept.
MICE	Prof.
Som, P. K., BE <i>Calc.</i> , MSc(Eng) <i>Lond.</i>	Reader
Mitra, A. K., BE <i>Calc.</i>	Reader
Choudhury, N., BE <i>Calc.</i>	Lectr.
Sarma, A. K., BArch <i>Kharagpur</i>	Lectr.
Choudhury, S., BE <i>Calc.</i>	Lectr.
Ghosh, B. N., BE <i>Calc.</i>	Lectr.
Sinha, A. K., BE <i>Calc.</i>	Lectr.
Das, S. C., BTech <i>Kharagpur</i>	Lectr.
Choudhury, T. K., BTech <i>Kharagpur</i>	Lectr.
5 Visiting Lectrs.	

**Electrical Engineering**

Guha, H. C., BSc <i>Edin.</i> , MIEE	Prof., Hd. of Dept.
Chowdhury, J. K., MSc <i>Calc.</i> , MScTech	Prof.
<i>Manc.</i>	Prof.
Deb, D. K., MS <i>Northwestern</i>	Prof.
Das Gupta, S. C., BEE	Prof.
Kar, M. M., BSc <i>Calc.</i> , BEE	Reader
Roy Bardhan, D. N., BEE	Reader
Purkayastha, G. P., MS <i>Mich.</i> , BEE	Reader
Patra, S., PhD <i>Manc.</i> , BEE	Reader
Mondal, P. C., BSc <i>Calc.</i> , BEE	Lectr.
Sadhukhan, P. K., BEE	Lectr.
Das, M. K., BEE	(on leave) Lectr.
Roy, N. N., DrIng T.H. <i>Karlsruhe</i> , BEE	Lectr.
Saha, A. R., MScTech <i>Calc.</i>	Lectr.
Nag, S. K., BEE <i>Raj.</i>	Lectr.
Dhar, R. N., BEE	Lectr.
Dey, G. C., BEE	(on leave) Lectr.
Bhattacharyya, S. N., BSc <i>Ban.</i> , MSc <i>Calc.</i>	Lectr.
Mukhopadhyaya, P., BEE	Lectr.
Roy, A. K., BEE	Lectr.
Mandyopadhyay, P. K., BEE	Lectr.
Mandal, R. K., MScTech <i>Calc.</i>	Lectr.
Bandyopadhyay, S. R., BEE	Lectr.
2 Visiting Lectrs.	

**Humanities**

Roy, K. C., MA <i>Calc.</i>	Lectr.
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**Mechanical Engineering**

Sen, G. C., MS <i>Mich.</i>	Prof., Hd. of Dept.
Chakraverti, S. K., BS <i>Worcester Poly. Inst.</i> ,	Prof.
MA <i>Mich.</i>	
Bhattacharyya, S. C., MSc <i>Calc.</i> ,	Prof. Emeritus
DrIng <i>Berl.</i>	
Basu, A. K., BSc <i>Calc.</i>	Prof.
Chatterjee, N. N., BSc <i>Calc.</i> , MME	Prof.

Ganguli, H. G.	Reader	Choudhury, P. C., BME	Lectr.
Mukherjee, B. C., EIH <i>Grenoble</i> , BME	Reader	Chakraborty, P. K., BME	Lectr.
Sen Gupta, M. S., BSc <i>Calc.</i> , BME		Das, S. K., BME	Lectr.
MS <i>Wash.</i>		Sen, P. K., BME	Lectr.
Ghosh, A. P., MME	Reader	Das, K. C., BME	Lectr.
Majumdar, B. B., MME	Reader	Bhowmik, M. N., BSc <i>Calc.</i> , BME	Lectr.
Banerjee, H. D., MME	Reader	Das, N. C., BME	Lectr.
Das, J. C., DrIng <i>T.H.Stuttgart</i> , BME	Reader	Das, A. K., BME	Lectr.
Roy, A. K., DrIng <i>Munich</i> , BME	Reader	Majumdar, K. P., BSc <i>Calc.</i> , BME	Lectr.
Chatterjee, K. C., MME <i>Corvallis</i>	Reader	Saha, B. B., BME	Lectr.
Pal, G. B., MME	Reader	Mallik, B. K., BME	Lectr.
Gupta, A. K., MME	Reader	Bhowmick, A. K., BME	Lectr.
Chanda, B. N., BME MS <i>Iowa</i> ,		Bose, B., BME	Lectr.
PhD <i>Colorado</i>		Datta, S., BME	Lectr.
Chakraborty, A. N., MME	Reader	Das Talukdar, N. K., BME	Lectr.
Roy, B. K., BME	(on leave) Reader	Kundu, K. N., BME	Lectr.
Banerjee, B. D., BME	Reader	Sen Gupta, N. B., BME	Lectr.
Ghosh, B. P., BME	Reader		
De, A. K., BME	Reader		
Sen Gupta, S. C.	Reader		
Das, B. L., BME	Reader		
De, P. C., BME	Lectr.		
Das, G. N., BME	Lectr.		
Roy, P. C., BME	Lectr.		
Bhaduri, S. N., BCom <i>Calc.</i> , BME	(on leave) Lectr.		
Sarkar, J. C., BME	Lectr.		
Chatterji, P. B., BME	Lectr.		
Kundu, N. C., BME	Lectr.		

### Telecommunication Engineering

Chatterjee, J. S., DPhil <i>Calc.</i> Prof., Hd. of Dept.	
Kundu, P., MSc <i>Calc.</i> , DipComEng	Prof.
<i>Chemsford</i>	
Banerjee, S. B., BE <i>Bom.</i> , DipEE <i>Kharagpur</i>	Reader
Ganguly, U. S., MTech	Lectr.
Sen, P. C., BEE	Lectr.
Nag, B., MScTech <i>Calc.</i>	Lectr.

### UNIVERSITY COLLEGE OF SCIENCE

Principal—A. K. Majumder, DSc *Calc.*

#### Chemistry, Inorganic

Majumder, A. K., DSc <i>Calc.</i> Prof., Hd. of Dept.	
De, A. K., DPhil <i>Calc.</i>	Reader
Sen, D., DPhil <i>Calc.</i>	Reader
Roy, N. N., DSc <i>Calc.</i>	Reader
Sen Gupta, J. G., MSc <i>Calc.</i> (on leave)	Lectr.
Chakraborty, A. K., MSc <i>Calc.</i>	Lectr.
Sen Sarma, K. P., MSc <i>Calc.</i>	Lectr.
Sen Gupta, A. K., MSc <i>Calc.</i>	Lectr.
Sur, B., MSc <i>Calc.</i>	Lectr.
Roy, A. K., DPhil <i>Calc.</i>	Lectr.
Goswami, B. K., MSc <i>Calc.</i>	Lectr.
Dutta, R. L., MSc <i>Dacca</i>	Lectr.
Guha, S., MSc <i>Dacca</i>	Lectr.
Mitra, B. K., MSc <i>Calc.</i>	Lectr.
Sen Sarma, R. N., DPhil <i>Calc.</i>	Lectr.
Gupta, P. K., MSc <i>Calc.</i>	Lectr.
Chatterjee, A. B., MSc <i>Calc.</i>	Lectr.
1 Res. Asst.	

#### Chemistry, Organic

Bhattacharyya, B. K., DSc <i>Calc.</i>	
Dutta, J., DPhil <i>Calc.</i>	Prof., Hd. of Dept.
Chatterjee, A., DPhil <i>Calc.</i>	(on leave) Reader
Banerjee, A., DPhil <i>Calc.</i>	Lectr.
De, P. K., MSc <i>Calc.</i>	Lectr.
Sen, K., <i>Calc.</i>	(on leave) Lectr.
Mukherjee, B. B., MSc <i>Calc.</i>	Lectr.
3 Res. Assts.	

#### Chemistry, Physical

Mukherjee, S. N., DSc <i>Calc.</i> Prof., Hd. of Dept.	
Das, M. N., DPhil <i>Calc.</i>	Reader
Rohatgi, K. K., MSc <i>Calc.</i> , DPhil <i>Oxon.</i>	Reader
Bhattacharyya, P. K., MSc <i>Calc.</i>	Lectr.
Pochhali, L., DPhil <i>Calc.</i>	Lectr.
Bhattacharyya, G. C., MSc <i>Calc.</i>	Lectr.
Roy, K. C., DPhil <i>Calc.</i>	Lectr.
2 Res. Assts.	

#### Geological Sciences

Deb, S., DresSc <i>Paris</i> , FNI Prof., Hd. of Dept.	
Mukherjee, B. C., MSc <i>Calc.</i> , FGS	Reader
Hore, P. N., MSc <i>Calc.</i>	Lectr.
Chakraborty, K. L., MSc <i>Calc.</i>	Lectr.
Chakraborty, P. S., MSc <i>Calc.</i>	Lectr.
Bhattacharyya, T. K., MSc <i>Calc.</i>	
DresSc <i>Nancy</i> (on leave)	Lectr.
Mitra, K. C., MSc <i>Lond.</i>	Lectr.
Sarkar, S. C., MSc	Lectr.
Ghosh, S. K., MSc <i>Calc.</i>	Lectr.
Roy, S., DPhil <i>Calc.</i>	Lectr.
Bhattacharyya, A. K., MSc	Lectr.
Basu, N. K., MSc <i>Calc.</i>	Lectr.
4 Visiting Lectrs., 1 Res. Asst.	

#### Mathematics

Sen, B. B., DSc <i>Calc.</i> , FNI Prof., Hd. of Dept.	
Mukherjee, D. N., MSc <i>Calc.</i>	Reader
Bhattacharyya, R., MSc <i>Calc.</i>	Reader
Bhattacharyya, R. N., MA <i>Calc.</i>	Reader

Dutta, M., DPhil *Calc.*  
 Chatterjee, B. B., DPhil *Calc.*  
 Chakraborty, S. K., MSc *Calc.*  
 Mitra, A. K., MSc *Calc.*  
 Mitra, M., MSc *Calc.*  
 Khamrui, S. R., MSc *Calc.*  
 Bhattacharyya, R. K., MSc *Calc.*  
 Dutta, S. K., MSc *Calc.*  
 Mitra, M. K., MSc *Calc.*  
 Ghosh, K. M., MSc *Calc.*  
 Bagchi, K. M., MSc *Calc.*  
 Sen, A. R., MSc *Calc.*  
 Das, S. P., MSc *Calc.*  
 Neogi, P., MSc *Calc.*  
 Chakraverty, B., MSc *Calc.*  
 Das, B. R., MSc  
 Majumder, S. R., MSc *Calc.*  
 1 Res. Asst.

### Physics

Chatterjee, S. D., DSc *Calc.*, FNI  
 Prof., Hd. of Dept.

Reader Sen, H. P., MSc *Calc.*  
 Reader Ganguly, S. C., DPhil *Calc.*  
 Reader Sen, S. N., DPhil *Calc.*  
 Lectr. Roy, T. C., DPhil *Calc.*  
 Lectr. Bhattacharyya, B., MSc *Ban.*, PhD *Camb.*  
 Lectr. Sutradhar, N., MSc *Calc.*  
 Lectr. Das, N. C., *Calc.*  
 Lectr. Sural, D., MSc *Calc.*  
 Lectr. Banerjee, A. N., MSc *Dacca*  
 Lectr. Coondoo, L. K., MSc *Calc.*  
 Lectr. Mukherjee, S. K., MSc *Calc.*  
 Lectr. Khan, D. C., MSc *Calc.*  
 Lectr. Sanyal, S. B., DPhil *Calc.*  
 Lectr. Dutta, S. P., MSc *Calc.*  
 Lectr. Chatterjee, D., MSc *Calc.*  
 Lectr. Bhadra, D. K., MSc *Calc.*  
 Lectr. Bandyopadhyay, K. G., BEE  
 Lectr. Gupta, N. N., MSc *Calc.*  
 Lectr. Sen, D. K., MSc *Calc.*  
 Lectr. Syam, P., MSc *Calc.*  
 4 Res. Assts.

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 Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Provost : G. C. Sen, MSE *Mich.* Librarian :  
 N. C. Maitra, BSc *Alld.*, BA DipLib *Calc.* Med.  
 Officer : T. J. Gupta, MB DTM *Calc.* Hostel  
 Supt. : B. L. Das, BME. Dir. of Youth Welfare :

H. Biswas, BSc DipJour DipSocSci *Calc.* Phys.  
 Instrs. : P. C. Banerjee ; J. Pal. Controller of  
 Exams. : D. N. Chakrabarty, BEE. Asst.  
 Registrar : S. N. Khan, BA *Calc.*

## GENERAL INFORMATION

The National Council of Education was started in 1906 to impart educn. 'on national lines and exclusively under national control, not in opposition to, but standing apart from the existing system of primary, secondary and collegiate education, attaching special importance to a knowledge of the country, its literature, history and philosophy, and designed to incorporate with the best oriental ideals of life and thought the best assimilable ideals of the west, and inspire students with the genuine love for and desire to serve the country'. The council at first maintained both arts and sci. and technical depts., but finding that public demand for technical educn. was more insistent, the council devoted for the last 50 yrs. almost the whole of its resources to technical educn. through its coll. of engin. and technol.

In view of the fact that the coll. of engin. and technol. had been virtually functioning as a univ., and in order that the degrees of the National Council of Educn. should receive statutory recognition, the govt. of West Bengal with the concurrence of the govt. of India enacted the necessary legislation for the establishment of a univ. at Jadavpur, and so Jadavpur Univ. came into being on Dec. 24, 1955, by West Bengal Act XXXIII of 1955.

The Jadavpur Univ. Act provides that 'any degree conferred by the National Council at any time between the 1st day of Jan. 1944 and the commencement of this act shall, for all purposes,

be deemed to be a degree corresponding to such degree of the univ. as may be declared by the state govt.'

CONSTITUTION. On the expiry of the 1st 4-yr. period after its incorporation all authority in the univ. has come to rest in a body composed of the following members : pres., rector, treasurer, dean of facs., hds. of institutions under univ., pres. of alumni assocn., chairman of institution of engineers, mayor of Calcutta corporation (all *ex officio*) ; 2 members elected by teachers other than profs., 2 elected by profs., 2 registered grads., 8 persons elected by National Council of Educn., 4 nominated by legal reps. of founder donors and 5 representing the state and union govts. The pres. is the titular hd. of the univ. and the rector is the principal executive officer. Other principal officers are the treasurer (an honorary officer) and the registrar. The following bodies have been constituted to advise the univ. on different matters : academic council, administrative council, finance council and development council.

The univ. has no affiliated colls. but the coll. of engin. and technol., the coll. of arts and the coll. of sci. are constituent colls. and function as teaching depts. of the univ.

INCOME. Total income (1959-60) : Rs. 4,134,800 (govt. grants, 82.1 per cent. ; fees, 10.1 per cent. ; other sources, 7.8 per cent.).

LIBRARY. 75,450 vols.

**FACULTIES AND DEANS.** *Arts*, Prof. P. K. Guha (Engl.); *engin.*, Prof. H. C. Guha (electr. engin.); *sci.*, Prof. B. B. Sen (maths.).

**ADMISSION.** Students who have passed the inter. exam. of an Indian univ. or any other exam. recognized as equivalent are eligible for admission to undergrad. courses in arts, sci. and engin. Those who have passed the matric. or sch. final exams. are admitted to the 1-yr. pre-univ. course for admission to honrs. courses in arts or sci. Only those who have passed the inter. sci. or equivalent exam. are eligible for admission to engin. degree courses in the univ. Students who hold dipls. in engin. and are in service are eligible for admission to pt.-time degree courses in civil, electr. and mech. engin. For postgrad. course in food technol. a student who holds the bachelor's degree in chem. engin. (with food technol.) or equivalent degree is eligible for admission.

**FIRST DEGREES.** 3 yrs. after class XI sch. final or pre-univ. course exam.—BA honrs., BSc honrs.; 4 yrs. after ISc or equivalent—BME, BEE, BTelE, BCE, BChE. There is no pass BA or pass BSc.

The exams. of all statutory Indian univs. are recognized as equivalent to the corresponding exams. of the univ.

**HIGHER DEGREES.** 1 yr. after corresponding bachelor's degree—MME, MChE, MCE, MEE, MTelE and MTech. 2 yrs. after corresponding bachelor's degree—MA, MSc in all subjs. available in the univ. DSc, PhD awarded on submission of thesis on res. in sci. subject, after at

least 2 yrs.' work under supervisor recognized by the univ.

**HONORARY DEGREES.** DSc, DLitt, DrEngg.

**STUDY LEAVE.** Study leave is granted to staff members for higher study or res. approved by the univ.

**FEES.** Annual tuition fees: pre-univ. course, Rs. 114; undergrad. course, Rs. 180; postgrad. course, Rs. 240.

**ACADEMIC YEAR.** One term. Pre-univ. & undergrad. courses: July 1–June 30; postgrad. courses: Aug. 1–July 31.

**LANGUAGE OF INSTRUCTION** and examination is English.

**GRADUATES' ASSOCIATION.** Alumni assocn. situated within campus.

**STUDENT RESIDENCE.** For men: Jadavpur univ. hostel, Calcutta, 32 (tel.: 46-4446), 525 students (it is expected that an addnl. 325 places will be available in 1959). Fees: Rs. 120–Rs. 144 plus admission fee of Rs. 5.

**STAFF RESIDENCES.** Univ. provides limited residential accomm. on campus for staff.

**NATIONAL CADET CORPS.** Naval, air, signals and engin. units of N.C.C.U.

**STUDENT HEALTH SERVICE.** No provision at present except for annual med. exam. A students' health centre is being establd. where periodical check-ups will be arranged.

**PUBLICATIONS.** *Calendar*; *Prospectus*, annually.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: phys. lab. *Approaching completion*: students' health centre; hostel for girls; hostel for boys.

### Statistics

**STUDENT NUMBERS, 1959–60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	2166	93
Women . . .	330	—
<b>Total</b>	<b>2496</b>	<b>93</b>

**Distribution by Faculties.** *Arts*, 552; *engin.*, 1569; *sci.*, 468. Total: 2589.

*Included in the figures above are* :—

Pre-University students, 116.

Postgraduate students, 561.

New admissions, 1038.

Students from other countries, 14. (Countries from which largest numbers came: Nepal, 7; Ceylon, 5).

**DEGREES AWARDED (Dec. 1959).** *Arts*: MA, 91; BA (honrs.), 7. *Engin.*: BChE, 55; BEE, 56; BME, 116; MME, 2; MChE, 2; MCE, 1. *Sci.*: MSc, 26; BSc (honrs.), 40.

**RESIGNATIONS.** M. L. Mondal (mech. engin.), apptd. to Delhi Polytechnic; S. Roy (mech. engin.), to undertake higher studies in W. Germany; R. N. Bhowal (electr. engin.), to join industry; M. K. Kar Gupta (phys.), to join govt. service; Rekha Deb (maths.), to undertake higher studies in U.K.; A. K. Mukherjee (chem.), to undertake post-doctoral res. in U.S.A.; S. P. Sanyal (geol. sci.), to join Geological Survey of India; S. K. Mukherjee (internat. relns.), apptd. to Calc.; Chaya Bhattacharyya (internat. relns.).

**DEATH.** M. N. Chakraborty (electr. engin.).



# UNIVERSITY OF JAMMU AND KASHMIR\*

Founded 1948

*Postal Address* : Srinagar, Kashmir, India  
*Cables and Telegrams* : University, Srinagar  
*Telephone* : Srinagar 230

CHANCELLOR—Y. K. S. JI, MA  
PRO-CHANCELLOR—B. G. MOHAMMAD  
VICE-CHANCELLOR—B. A. SAYEED, MA BL *Madr.*  
TREASURER—Sirdar M. A. K. LODI, BA  
REGISTRAR—G. MOHAMMAD, MA

## TEACHING STAFF

### Economics

Bhan, J. N., MA PhD  
Singh, I., BA *Camb.*  
Pall, B. N., MA  
Sharma, B. D., BSc MA

### Hindi

Prof. . . . .  
Reader Gupta, H. P., MA DPhil  
Lectr. Singhal, S. B., MA PhD  
Lectr. Kaul, M., MA  
Lectr.

Prof.  
Reader  
Lectr.  
Lectr.

### English

Pandit, S. L., MA  
Apurab, S., MA PhD  
Want, M. S., MA PhD  
Pandit, M. L., MA

Prof. . . . .  
Reader Puri, M. R., MSc DiplStats *Leeds*, MA  
Lectr. Mohammad, J., BSc *Leeds*, MA  
Lectr. Mohammad, Q. G., MA  
Lectr. Jain, D. L., MA

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.

### Geology

Wakhaloo, S. N., MSc PhD, FGS  
Sawhney, R., MSc  
Bhatia, T. R., MSc  
Sharma, T. R., MSc

### Urdu

Prof. . . . .  
Reader . . . . .  
Lectr. Shakil-ur-Rahman, MA  
Lectr. Ahmed, S., MA  
Lectr. Kamil, A. U., MA BEd HPU

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : Bhagat Singh, MA LLB ; Dep. Librarian : M. H. Razvi, MA DipLibSc.  
Asst. Registrar (General) : R. K. Sapru, BSc ; Dir. of Phys. Educn. : G. Mohammad, BA DPED.  
Asst. Registrar (Exams.) : M. A. Chishti, BA.

## AFFILIATED COLLEGES

[FA, BA, etc., after the name of a coll. means that courses are provided there for  
Intermediate Arts, BA, etc.]

ANANTNAG, *Govt. Intermediate College*, Kash- BARAMULLA, *St. Joseph's College*, Kashmir-  
mir. FA, FSc. Principal—Saif-ud-Din, MA. FA, FSc, BA. Principal—Rev. J. McMahon.

\* Member of the Association of Universities of the British Commonwealth

BIHARWARAH, *Govt. Intermediate College*, Jammu. FA, FSc. Principal—B. L. Kaw, MSc PhD.

JAMMU, *Govt. College for Women*. FA, FSc, BA. Principal—Miss S. Winifred Shaw, MA.

JAMMU, *Govt. Gandhi Memorial Arts College* (tel. : 314A). FA, BA. Principal—Hassan Shah, MA.

JAMMU, *Govt. Gandhi Memorial Science College* (tel. : 314). FSc, BSc. Principal—T. Ram, MSc.

JAMMU, *Sri Pratap Memorial Rajput College of Commerce*. ICom, BCom. Principal—G. P. Singh, MCom.

JAMMU, *Teachers' Training College*. BEd. Principal—Ghanashyam, MSc.

POONCH, *Govt. Intermediate College*, Jammu. FA, FSc. Principal—.....

SOPORE, *Govt. Intermediate College*, Kashmir

(tel. : 12). FA, FSc. Principal—A. S. Dhar, MA.

SRINAGAR, *Amar Singh College*, Kashmir (tel. : 392). FA, FSc, BA, BSc, BSc(hons.). Principal—M. Ahmed, MA.

SRINAGAR, *Gandhi Memorial College*, Kashmir. FA, FSc, BA, BEd. Principal—G. N. Mattu, MA MOL.

SRINAGAR, *Govt. Medical College*, Kashmir. MB BS. Principal—G. V. S. Murthi, MD.

SRINAGAR, *Govt. Women's College*, Kashmir (tel. : 398). FA, FSc, BA. Principal—Miss Mahmuda Ahmed Ali Shah, MA.

SRINAGAR, *Sri Pratap College*, Kashmir (tel. : 228). FA, FSc, BA, BA(hons.), BSc. Principal—Nurud-Din, MA.

SRINAGAR, *Teachers' Training College*, Kashmir (tel. : 386). BEd. Principal—A. Ashraf Ali, MA.

## GENERAL INFORMATION

The Univ. of Jammu and Kashmir was establd. in Nov. 1948. It is a teaching and examining univ.

CONSTITUTION. Senate, syndicate, academic bd. The senate is the supreme governing body, the syndicate is the executive body.

INCOME (1959-60). Total: Rs. 1,653,925 (exam. fees, Rs. 500,390; other fees, Rs. 79,940; other receipts, Rs. 104,440; state grants, Rs. 515,000; U.G.C. grant, Rs. 454,155).

FACULTIES AND DEANS. *Arts*, S. L. Pandit; *comm.*, G. P. Singh; *educn.*, A. A. Ali; *med.*, Dr. G. V. S. Murthi; *oriental learning*, G. N. Mattu; *sci.*, Ghanashyam; *soc. sci.*, Dr. J. N. Bhan.

LIBRARIES. Univ. libr., 29,020 vols. Librs. of affiliated colls., about 90,817 vols.

OBSERVATORY. A high elevation observatory for res. on cosmic rays has been establd. at Gulmarg, Kashmir, in co-operation with Aligarh Muslim Univ.

ADMISSION. The min. qualif. necessary for admission to the univ. is the passing of the matric. exam. or an exam. recog. as equivalent.

It is proposed to start the 3-yr. degree course from the academic year 1962. The qualif. necessary for entry to the course will be the passing of the higher secondary course exam. or the pre-univ. exam.

FIRST DEGREES. 4 yrs. after matric.—BA, BSc, BCom.

HIGHER DEGREES. 1 yr. —BEd. 2 yrs.—MA in econ., Engl., Hindi, maths., Urdu; MSc in geol.

The univ. postgrad. depts. are located as follows: English, Hindi, maths. and Urdu, at Srinagar; econ. and geol., at Jammu.

CERTIFICATES. Proficiency, high proficiency and hons. in Hindi, Urdu, Panjabi, Arabic, Sansk. and Persian, each 1 yr.

The LANGUAGE OF INSTRUCTION is Engl., except in classical and mod. Indian lang. classes, where the medium of instructn. is the lang. concerned, or an allied lang.

PRIVATE CANDIDATES. Men, in professions such as teaching and librarianship, and women are allowed to appear as private candidates under certain conditions, provided they come from the state of Jammu and Kashmir.

STUDY LEAVE. There is no regular practice regarding study leave for members of staff.

TERMS in univ. depts. Srinagar: Sept. 1-Dec. 20; March 1-May 20; June 1-Aug. 10. Jammu: Sept. 21-Dec. 20; Jan. 5-March 31; April 11-July 5.

FEEs. No tuition fees are charged in univ. postgrad. depts. or in govt. affiliated colls.

PUBLICATIONS. *Handbook* (publd. at irregular intervals); *Univ. Review* (2 issues p.a.).

**Sociology**

Chandrashekhariah, K., MA Mys.,  
DPhil Fran.  
Marulasiddayya, MA

\*Reader  
Lectr.

Bhat, B. R., MA *Madr. & Karn.*

(on leave) Lectr.

Kabe, D. G., MSc *Bom. & Karn.*

Lectr.

Bhat, U. N., MA

Lectr.

Basavarajappa, K. G., MSc

(on leave)

**Statistics**

Prabhu, N. U., MA *Bom.*, MSc *Manc.* \*Reader

Tikkiwal, B. D., MSc *Raj.*, PhD *N.Carolina*

Reader

**Zoology**

Joseph, K., MSc PhD

\*Reader

**ADMINISTRATIVE AND OTHER STAFF**

O.S. (Admin.): B. G. Siriannavar. Asst.  
Registrar (Accounts): R. A. Pandurangi, BCom.  
Dir., Extension Services: C. S. Kanavi, MA;  
Asst. Dirs.: B. S. Gaddagimath, MA PhD; S. B.

Naik, MA. Sec., Bd. of Sports, Students Welfare;  
S. M. Desai, BA; Asst. Secs.: S. N. Dixit, BA;  
F. K. Patil, BA.

**CONSTITUENT COLLEGES**

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

DHARWAR, *Karnatak Arts College* (1917) (tel.: 18). BA, MA. Principal—A. Menezes, MA. Hds. of Depts.: ENGL.—A. Menezes, MA; FRENCH—Miss Aurora Figuirodo, BA; HINDI—R. K. Mudaliar, MA; HIST AND ECON.—.....; KANNADA—S. S. Malwad, MA; MARATHI—P. N. Kulkarni, MA; MATHS.—.....; PERSIAN AND URDU—V. Balakrishna, MA; PHILOS.—T. G. Kalghatgi, MA; SANSK. AND PRAKRIT—

K. T. Pandurangi, MA.

DHARWAR, *Karnatak Science College* (1934) (tel.: 176). BSc, MSc (in bot. and zool.). Principal—G. S. Paramashivayya, MSc *Col.* Hds. of Depts.: BOT.—L. K. Gunjekar, MSc; CHEM.—R. P. Dodwadmath, MSc; GEOG.—M. S. Honrao, MSc; PHYS.—K. S. Savanur, MSc; ZOOL.—A. M. Patil, MSc PhD.

**AFFILIATED COLLEGES**

BAGALKOT, *Basaveshwar College* (1944) (tel.: 40). BA, BSc. Principal—S. C. Nandimath, MA PhD *Lond.* Hds. of Depts.: BIOL.—M. S. S. Rao, MSc; CHEM.—Prof. B. H. Yelburgi, MSc; ECON.—Prof. S. N. C. Rao, MA; ENGL.—Prof. L. G. Hiremath, MA *BT Bom.*; HINDI—G. M. Umapati, Shastri MA; KANNADA—.....; MATHS.—Prof. R. Gopalan, MA; PHILOS.—S. B. Mathad, MA; PHYS.—A. R. Chandrashekhar Rao, MSc; SANSK. AND PRAKRIT—Prof. S. C. Nandimath, MA PhD *Lond.*

BELGAUM, *K.L. Society's College of Commerce* (1954) (tel.: 381). BCom. Principal—D. S. Kurltakoti, MA *Bom.*

BELGAUM, *Lingaraj College* (1933) (tel.: 27). BA, MA, TD. Principal—B. Rudrappa, MA *BT.* Hds. of Depts.: EDUCN.—M. S. Uppin, BA *MEd*; ECON. AND HIST.—Prof. M. Halayya, MA; ENGL. AND FRENCH—B. Rudrappa, MA *BT*; FRENCH—S. R. Salkar, MA; HINDI—B. L. Kotmire, MA PhD *LLB*; KANNADA—Prof. V. G. Kulkarni, MA *LLB*; MARATHI—Prof. K. B. Nikkumb, MA; PERSIAN AND URDU—M. A. Topinkatti, MA; PHILOS. AND LOGIC—L. V. Rajgopal, MA; SANSK. AND PRAKRIT—Prof. S. V. Dixit, MA.

BELGAUM, *R.L. Law College* (1939) (tel.: 381).

LLB, LLM. Principal—V. R. Bhat, MA *LLM.* HIST. AND SOCIOL.—Prof. & Hd. of Dept.: A. P. Karmarkar, MA *LLB PhD*; LAW—Prof. & Hd. of Dept.: Principal V. R. Bhat, MA *LLM*; Profs.: R. G. Deole, BA *LLB*; V. A. Majumdar, BA *LLB*.

BELGAUM, *R.L. Science Institute* (1944) (tel.: 435). BSc. Principal—V. V. Jatti, MSc. Hds. of Depts.: BIOL.—P. S. Chikkannaiah, MSc; CHEM.—V. V. Jatti, MSc; ENGL.—V. D. Kulkarni, MA; HINDI—D. D. Deo, MA; MARATHI—Miss Vijaya R. Dhopeshwarkar, MA; MATHS.—R. V. Thakar, MSc; KANNADA—V. G. Kulkarni, MA; PHYS.—N. C. Charantimath, MSc.

BELGAUM, *R.P.D. College* (1945) (tel.: 79). BA, BSc. Principal—B. T. Bhalerao, MA. Hds. of Depts.: BIOL.—U. K. Kulkarni, MSc; CHEM.—K. D. Phadnis, MSc; ECON.—B. T. Bhalerao, MA; ENGL.—M. S. Iyengar, MA; FRENCH—V. V. Vaidya, MA; GEOG.—V. R. Phadnis, MSc; HINDI—N. K. Chitale, MA; KANNADA—K. G. Kundangar, MA; MARATHI—H. S. Shinolikar, MA; MATHS.—G. N. Chapekar, MA; PHILOS.—A. D. Mendonca, PhD; PHYS.—A. S. Deshpande, MSc; SANSK. AND PRAKRIT—D. R. Page, MA.

BELGAUM, *S.T. College* (1939) (tel.: 206). BEd. Principal—B. K. Surebankar, MEd.

BIJAPUR, *Vijay College* (1945) (tel.: 68). BA, BSc. Principal—B. S. Ganachari, MA BT Bom. Hds. of Depts.: BOT.—B. C. Hoskeri, MSc; CHEM.—P. S. Shastri, MSc; ECON.—C. S. Krishnamoorthy, MA; ENGL.—B. S. Ganachari, MA BT; HINDI—S. R. Gupta, MA; HIST.—S. H. Rao, MA; KANNADA—B. T. Sasnur, MA BT PhD Bom.; MARATHI—G. M. Kulkarni, MA; MATHS.—P. K. Hakkaladaddi, MSc; PERSIAN AND URDU—M. A. Bhandari, MA; PHILOS.—T. Reuben, MA; PHYS.—I. R. Patil, MSc; PRAKRIT—S. R. Bhide, MA; SANSK.—V. H. Barikeri, MA; SOCIOLOG.—A. Laxman Rao, MA; ZOOL.—Mrs. Sarojini T. Reuben, MSc.

DHARWAR, *College of Agriculture* (1947) (tel.: 73). Principal—Prof. S. W. Mensinkai, DIC, MSc PhD Lond., DipAgric R'dg. Profs.: AGRIC. BOT.—S. W. Mensinkai, DIC, MSc PhD Lond., DipAgric R'dg. AGRIC. CHEM.—B. Bhimsurao, BSc; AGRIC. ECON.—.....; AGRIC. ENGIN., MATHS. AND PHYS.—R. F. Patil, BE(Civil) Bom.; AGRIC. ENTOMOL.—H. L. Kulkarni, MSc (Agri); AGRON.—S. V. Patil, MAgrSc Q'ld.; ANIMAL HUSB. AND DAIRYING—B. H. Sindagi, BAg; HORTIC.—S. D. Kololgi, MS Calif., MSc (Agri); PLANT PATHOL. AND BACTERIOL.—R. S. Deshpande, DIC, BSc PhD Lond.; VET. SCI.—K. L. Shiggaon.

DHARWAR, *Janata Shikshana Samiti's Law College* (1955) (tel.: 68). LLB. Principal—N. R. Kulkarni, MA LLB; Prof. N. K. Dixit, BA LLB; Prof. K. R. Apte, BA LLB.

DHARWAR, *Janata Shikshana Samiti's Science and Banashankari Arts College* (1944) (tel.: 68). BA, BSc. Principal—R. Y. Dharwadkar, MA. Hds. of Depts.: BIOL.—V. N. Kalghatgi, MSc; CHEM.—V. G. Kulkarni, MSc PhD; ECON.—K. N. Naik, MA PhD; ENGL.—G. A. Kulkarni, MA; GEOG.—H. D. Lele, MA BT; HINDI—C. G. Nadagouda, MA; KANNADA—R. Y. Dharwadkar, MA; LOGIC AND PHILOS.—C. S. Kulkarni, MA; MATHS.—K. S. Amur, MSc; PERSIAN AND URDU—.....; PHYS.—N. V. Gejji, MSc; SANSK. AND ARDHAMAGADHI—H. R. Naware, MA.

GADAG, *K.L.E. Society's College of Arts & Science* (1958) (tel.: 15). Pt. I BSc & Pt. I BA. Principal—T. K. Patil, BA Bom., MA Lond.

GADAG, *Institute of Pre-University Course* (1957). Pre-Univ. Supt.—M. R. Gajendragad, MSc.

GULBARGA, *Engineering College* (1958) (tel.: 172). SE. Principal—K. B. Krishna Rau, BA BE, MIE(India).

GULBARGA, *Govt. Arts & Science College* (1932) (tel.: 64). BA, BSc. Principal—D. J. Davar, MSc PhD.

GULBARGA, *Govt. BEd College* (1955) (tel.: 128). BEd. Principal—K. Ramachandra, MA MEd.

GULBARGA, *Sharan Basaveshwar College* (1958) (tel.: 46). Pre-Univ. (in Sci.), Pre-Professional in Engin. and Med.; Pt. II BA. Principal—S. T. Kallapur, MA.

HUBLI, *B.V.B. College of Engineering and Technology* (1948) (tel.: Hubli 76). BE (Civil), Dipl. in Civil, Mech. & Electr. Engin. Principal—A. S. Menon, BSc(Engg) Ban., MIE(India). Hds. of Depts.: APPL. MECHS.—S. S. Shivaswami, BE(Civ); CIVIL ENGIN.—R. Srinivasan, BE; ELECTR. ENGIN.—B. H. Karakaraddi, BSc; GEOL. & CHEM.—Y. B. Deshpande, MSc; MATHS.—V. M. Sakhare, MA Camb.; MECH. ENGIN.—B. R. Sali, BE(Mech) Bom.

HUBLI, *J.G. College of Commerce* (1947) (tel.: Hubli 144). BCom. Principal—C. C. Pattanshetti, MA PhD. Hds. of Depts.: ACCTY. & AUDITING—C. A. Aralimatti, BA; BANKING & ECON.—C. C. Pattanshetti, MA PhD; COMM.—J. K. Irani, MCom; ENGL.—A. V. Shastri, MA; STATS.—G. Bhasker Rao, MA Sc.

HUBLI, *Kadasiddeshwar Arts College* (1952) (tel.: Hubli 97). BA. Principal—D. S. Karki, MA PhD. Hds. of Depts.: ARDHAMAGADHI & MARATHI—I. A. Fernandis, MA; ECON.—H. R. Sakhare, MA; ENGL.—G. V. Nadgouda, MA; GEOG.—Miss S. Indira Devi, MA; KANNADA—D. S. Karki, MA PhD; LOGIC & PSYCHOL.—S. L. Bhyarappa, MA; PERSIAN & URDU—M. A. Pyare, MA; SANSK.—S. B. Topkhane, MA.

HUBLI, *Karnatak Medical College* (1957) (tel.: 99). MB BS. Principal—V. G. Kale, MB MS Bom. Hds. of Depts.: ANAT.—V. G. Kale, MS Bom.; PHARMACOL.—S. W. Hardikar, MD, MRCPEd; PHYSIOL.—J. S. Saksena, BSc MB BS MD(Physiol) Luck.; BIOCHEM.—T. C. Appanna, MSc PhD; PATHOL.—M. R. Parthasarathy, MB MS, FACP; MED. UNIT—K. S. Shadaksharappa, DSc MB BS Mys., MS; SURG. UNIT—K. Krishnamurthy, MB BS Mys., MS(Surg) Louvain, FRCSed; SOC. AND PREV. MED.—S. V. Rama Rao, MB BS DPH; GYNÆCOL. AND OBSTET.—.....

HUBLI, *P.C. Jabin's Science College* (1957) (tel.: 285). Pt. I BSc. Principal—S. S. Bommanavar, MSc Ban.

KUMTA, *Kanara College* (1949) (tel.: 45). BA, BSc. Principal—L. S. Kamat, MA. Hds. of Depts.: BIOL.—Miss Girija R. Sabnis, MSc; CHEM.—Prof. V. N. Shetgeri, MSc; ECON.—Prof. N. R. Rao, MA; ENGL.—B. S. Shanbhag, MA; HINDI—V. R. Pungawkar, MA LLB; HIST. & ECON.—N. R. Gopalrao, MA; KANNADA—K. G. Shastri, MA; LOGIC & PSYCHOL.—N. A. Hanumanthrao, MA; MATHS.—L. S. Kamat, MA; PHYS.—R. A. Kaulgud, BSc; SANSK.—B. H. Shreedhara, MA.

MANGALORE, *Kasturba Medical College, Clin. Section* (1955) (telegrams: 'Keymsee') (tel.: 452). Principal—G. D. Veliah, MD DTM Col. Hds. of Depts.: PHARMACOL.—.....; PATHOL.

—Prof. G. D. Veliath, MD DTM Col.; BACTERIOL.—Prof. P. S. Gollerkeri, MD; FORENSIC MED.—Prof. J. C. Jacob, BA MD; MED.—Prof. M. V. Chari, MB BS Rangoon, MRCP; SOC. & PREV. MED.—Prof. R. Bhaskar Rao, MB BS BSc; SURG.—Prof. D. S. Iyer, MS, FRCS; OBSTET. & GYNÆCOL.—Prof. (Mrs.) Bhagyamma Purushotham, MD; ORTHOPÆDICS—H. Srinivasan, MB BS, FRCS, FRCSEd; PÆDIATRICS—B. R. Rama Rao, MB BS DCH; OPHTHALMOL.—P. Narayan Rao, MB BS DOMS; OTO-RHINO-LARYNGOL.—K. Satyashankar, MB BS DLO; TUBERCULOSIS—M. Umesh Rao, LM&S TDD; VENEREOL. & DERMATOL.—A. F. Coelho, MB BS; ANÆSTHESIOL.—K. R. Kamath, MB BS DA; DENT. SURG.—A. T. Rai, LDSc; RADIOI.—P. B. Choudiah, MB BS DMR.

MANIPAL, *Engineering College* (1957) (tel.: 85 Udupi). BE(Civil). Principal—M. N. Kamath, BE(CE), MIE(India).

MANIPAL, *Kasturba Medical College Pre-Clin. Section* (1953) (tel.: 81 Udupi). 1st MB BS. Dean—R. P. Koppikar, MS. Hds. of Depts.: ANAT.—R. P. Koppikar, MS; PHYSIOL.—A. Krishnarao, MB BS MSc; PREV. MED.—E. Anantha Rao, BSc MB BS DPH.

RAICHUR, *L.V.D. College* (1954). BA, BSc. Principal—R. B. Magal, MA.

UDIPI, *Law College* (1957) (tel.: 73). LLB. Principal—B. L. N. Rai, BA ML.

YADGIRI, *Shankar College* (1953) (tel.: 60). Principal—B. M. Ramalingayya, MA Bom. & Madr., BT.

## INSTITUTION MANAGED BY THE UNIVERSITY

DHARWAR, *Kannada Research Institute* (1939). Dir.—B. A. Saletore, MA PhD Lond., DPhil Giessen. KANNADA—B. S. Kulkarni, MA, Reader;

ANC. INDIAN HIST. AND CULTURE—P. B. Desai, MA Bom., Reader; SOCIOI.—K. Chandrasekariah, MA PhD.

## GENERAL INFORMATION

Karnatak Univ. is one of the regional univs. which came into existence with the splitting up of Bombay Univ. In response to an insistent demand from the Kannadigas for a separate univ. for Karnatak, the govt. of Bombay appointed the Karnatak Univ. Cttee. in April 1947, under the chairmanship of Mr. Justice N. S. Lokur. The Karnatak Univ. bill, based on this cttee.'s report, was passed by the Bombay legislature in April 1949. In June 1949 R. A. Jahagirdar was apptd. by the govt. of Bombay as first vice-chancellor of the univ. and on March 1, 1950, Karnatak Univ. was brought into existence as a corporate body. At present its jurisdiction extends over the districts of Dharwar, Belgaum, Bijapur, North Kanara, Raichur, Gulbarga and Bidar. The univ. is situated on a 283-acre site, given by the govt. of Bombay. The univ. is both an affiliating and teaching univ. It aims to develop into a residential univ. with emphasis on postgrad. instrcn., affiliation being one of its subsid. functions. The univ. also runs two colls. in Dharwar, one in arts and one in sci. (see above, under 'Constituent Colls.'). These two colls., which were formerly run by govt., were transferred in 1958 to the management of the univ.

CONSTITUTION. The senate is the supreme governing body of the univ. The executive powers are vested in the syndicate. The other authorities are the academic council, the facs., the bds. of univ. teaching and the bds. of studies in the various facs.

INCOME (1958-59). Rs. 2,220,719.

FACULTIES AND DEANS. *Agric.*, Dr. S. W.

Mensinkai; *arts*, Prof. V. G. Kulkarni; *engin.*, Prof. B. R. Sali; *law*, Prof. V. A. Mujumdar; *med.*, Principal G. D. Veliath; *sci.*, Principal V. V. Jatti; *soc. sci.*, Dr. C. C. Pattanshetty.

UNIVERSITY PRECINCT. The univ. campus, now about 350 acres in area, is situated on a high hill-top known as 'Chhota-Mahabaleshwar', about 2 miles S.E. of Dharwar city. A small township is growing up on the campus, the more important univ. bldgs. being the educn. bldg., admin. bldg., residential bungalows of sr. staff members, quarters for admin., teaching and menial staff, boys' hostel for 300 students, health centre, fac. club, central workshop, recreation/auditorium bldg., canteen. The fac. club, situated at the highest point, commands a view of the entire campus.

LIBRARY. Univ. libr., about 39,786 vols.

ADMISSION. The min. qualif. for admission to pre-univ. courses in arts, sci. and comm. is the S.S.C. exam. of the S.S.C. exam. bd., Mysore State (if passed in prescribed subjs. with 35 per cent. marks in each subj.), or any other exam. recog. as equivalent by the univ.

The univ. does not permit any students to pursue a prescribed course privately and take any exam. without attending a coll.

FIRST DEGREES. BA, BSc, BCom, 3 yrs. after pre-univ. exam. BE (civil, mech. and electr.), 3 yrs. after BSc pt. I exam. BSc(Agric), 4 yrs. after pre-univ. sci. exam. LLB, 3 yrs. after pt. I exam., 2 yrs. after graduation in arts or comm. or sci. MB BS, 4½ yrs. after BSc pt. I exam. with med. group.

**HIGHER DEGREES.** 1 yr.—BED; 2 yrs.—MA (econ., hist., sociol., pol., philos., soc. anthropol., Engl., Sansk., Kannada, stats., Marathi, maths.), MSc (chem., phys., geol., zool., bot., maths., stats.), MEd, MSc(Agric), LLM, MCom. Also PhD (chem., phys. geol., zool., bot., linguistics, econ., sociol., soc. anthropol., pol., Engl., philos., hist., Kannada), DLitt (for publ. work), DSc. PhD and DLitt also awarded as honorary degrees.

**DIPLOMAS.** Teaching (TD), 1 yr.

**RESEARCH.** Facilities in following subjs. provided for MA, MSc and PhD : Engl., Kannada, Sansk., hist., archæol., epigraphy, anthropol., econ., pol., sociol., philos., phys., chem., geol., bot., zool., maths. and stats.

**STUDY LEAVE.** The univ. grants study leave to its employees to enable them to undertake higher studies or specialized trg. in professl. or tech. subjs. having a direct or close connection with the sphere of their duties. Ordinarily, the period of such leave does not extend to more than 12 mos. in the service of an employee. Study leave not debited against leave account.

**FEES (Annual).** Rs. 223 for master's degree course in arts; Rs. 223 for PhD in arts; Rs. 253 for master's degree in sci.; Rs. 263 for PhD in sci.; addnl. (refundable) fee of Rs. 30 towards lab. deposit payable by sci. and stats. students.

**ACADEMIC YEAR.** June to March, 2 terms. Term dates (approx.): June 15 to Oct. 30; Nov. 9 to March 12.

**USUAL LANGUAGE OF INSTRUCTION** at present is English.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARDS.**

One studentship of Rs. 50 p.m., tenable for 2 yrs., is given for every 20 students in each of the subjs. at MA, MSc, MSc(Agric), MEd, LLM and MCom. 4 govt. fellowships, each of Rs. 60 p.m., tenable for 2 yrs., are available for students admitted for postgrad. courses. 5 univ. res. scholps., each of Rs. 125 p.m. for 2 yrs., are available for students working for PhD and DLitt. These awards are all open to grads. of any recog. univ.

**STUDENT RESIDENCES.** Karnatak Univ. Boys' Hostel, Chhota-Mahabaleshwar, Dharwar, Mysore State. Accom. for 150 students, intended mainly for postgrads. Fees, Rs. 25 deposit (refundable) plus Rs. 80 for single room, and Rs. 60 for double room, per term.

**STAFF RESIDENCES** controlled by univ.: vice-chancellor's lodge, registrar's residence, dep. registrar's residence, 23 postgrad. teachers' residential quarters, 12 jr. quarters, 24 quarters for peons on staff of univ.

**UNIVERSITY EXTENSION.** 7 lecture camps organized at different mofussil (rural) places (only in centres with no instns. of higher educn.); univ. teachers and other persons deliver lectures on a variety of topics.

**PUBLICATIONS.** *Bulletin*, Vol. I, No. 1 (free); annual reports (free); *Handbook*, Part I (annual, as. 8), Part II (Rs. 10), Part IV (as. 8); Kannada extension lecture booklets (Rs. 0.25 n.p. each); *Univ. Journal*, mainly intended to promote res. work by teachers and students of the univ., issued in Nov. (sci.) and June (humanities) (each Rs. 2.50). Also text-books and other scholarly publicns.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: swimming pool; recreation hall/auditorium; central workshop; health centre; shops; room for poisonous chemicals and store-room.

**RETIREMENTS.** Dr. K. S. Naragund (org. chem.).

**RESIGNATIONS.** Dr. R. C. Paul (inorg. chem.), apptd. prof., Panj. (I.).

Distribution by Faculties. *Agric.*, 370; *arts*, 4018; *engin.*, 745; *law*, 541; *med.*, 977; *sci.*, 4999; *soc. sci.*, 1271.

*Included in the figures above are :—*

Pre-University students, 3754.

Postgraduate students, 533.

New admissions (to 3-yr. degree course), 8634.

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	11,862	—
Women . . .	1,059	—
<b>Total</b>	<b>12,921</b>	

**DEGREES AWARDED (1959).** *Agric.* : BSc, 46; MSc, 5. *Arts* : BA, 386; MA, 51. *Engin.* (Civil) : BE, 46. *Law* : LLB, 120. *Med.* : MB BS, 48. *Sci.* : BSc, 248; MSc, 58. *Soc. scis.* : BEd, 56; MEd, 29; BCom, 104. PhD (all facs.) : 4. *Total number of first degrees awarded, 998.*

# UNIVERSITY OF KERALA\*

Founded 1937

Postal Address : University Buildings, Trivandrum, Kerala State, South India

Cables and Telegrams : University, Trivandrum

Telephone : Trivandrum 3112

CHANCELLOR—THE GOVERNOR OF KERALA (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF KERALA (*ex officio*)

VICE-CHANCELLOR—K. C. K. E. RAJA, DTM&H

REGISTRAR—V. P. KANNAN NAIR, MA LT

DEANS OF FACULTIES—AGRICULTURE—M. C. CHERIAN, DIC, BA BSc(Agri); ARTS—V. NARAYANA PILLAI, MA BL; AYURVEDA—M. N. KESAVA PILLAI, BA; COMMERCE—K. VARMA, BA BCom, FCA; EDUCATION—V. S. NAIDU, MA BL TD; ENGINEERING—M. V. KESAVA RAO, BSc PhD; FINE ARTS—Mrs. LEKSHMIKUTTY NARAYANAN NAIR, MA; LAW—MALLOOR K. GOVINDA PILLAI, BA BL; MEDICINE—T. K. RAMAN, MD DTM; ORIENTAL STUDIES—P. K. NARAYANA PILLAI, MA PhD; SCIENCE—C. C. JOHN, DIC, MA DSc; TECHNOLOGY—K. C. CHACKO, MA MS; VETERINARY SCIENCE—K. S. NAIR, DTVM *Edin.*

## TEACHING STAFF

(Hds. of univ. teaching depts. and research)

<b>Applied Chemistry</b>	<b>Marine Biology and Fisheries</b>
Pillai, P. P., DSc, FRIC	Prof. John, C. C., DIC, MA DSc Prof
<b>Botany</b>	<b>Politics</b>
Abraham, A., MA MSc Pl D	Prof. Sukumaran Nair, V. K., MA PhD Reader
<b>Economics</b>	<b>Psychology</b>
Pillai, V. R., MA MSc	Prof. George, E. I., MA PhD Reader
<b>Education</b>	<b>Statistics</b>
Pillai, N. P., PhD <i>Birm.</i> , MA LT	Prof. George, Miss Aleyamma, DSc Prof
<b>Islamic History and Culture</b>	<b>Tamil</b>
.....	Reader Subramoniam, V. I., MA Prof.

## ADMINISTRATIVE AND OTHER STAFF

Vice-Chairman, Council of Res. : C. C. John, DIC, MA DSc. Dir. of Phys. Educn. : V. G. Abraham, BA. Officer-in-charge, Univ. Employment Bureau : K. S. Lakshmana Panikkar, MA

MLitt. Supt., Dept. of Publicns. : K. M. Mathew, BA LT. Curator, MSS. Library : K. Raghavan Pillai, MA PhD.

## AFFILIATED COLLEGES

[Pre-Univ., etc., after the name of a coll. means that courses are provided there for Pre-Univ., etc.]

### Arts and Science Colleges

#### FIRST GRADE COLLEGES

ALLEPPEY, *Sanatana Dharma College* (tel. : phys., chem., bot., zool. and comm. Principal—550). Pre-Univ. Pass courses in econ., maths., V. Ramanathan, MA LT. 53 other Teachers.

\* Member of the Association of Universities of the British Commonwealth

ALLEPPEY, *St. Joseph's College for Women* (tel. : 622). Pre-Univ. Pass courses in hist., econ., maths., chem., bot., zool. and home sci. Principal—Mother Olive Rodrigues, BA TD. 23 other Teachers.

ALWAYE, *Union Christian College* (tel. : 94). Pre-Univ. Pass courses in philos., econ., maths., phys., chem. and bot.; postgrad. course in phys.; pre-professional courses in engin., med., dent. surg., Ayurveda, agric. and vet. sci. Principal—T. B. Thomas, MSc. 49 other Teachers.

CALICUT, *Guruvayurappan College* (tel. : 116). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool. and comm.; postgrad. course in econ. Principal—N. T. Madhavan Nambiar, MA. 37 other Teachers.

CALICUT, *Malabar Christian College* (tel. : 679). Pre-Univ. Pass courses in econ., maths., phys., chem. and zool. Principal—V. G. M. Pavamani, MA L.T. PhD. 33 other Teachers.

CALICUT, *Providence Women's College* (tel. : 566). Pre-Univ. Pass courses in econ., chem. and zool. Principal—Rev. Mother M. Benedicta, MA. 18 other Teachers.

CHANGANACHERRY, *Assumption College*. Pre-Univ. Pass courses in econ., phys., chem., bot., zool. and home sci. Principal—Sister Mary Xavier, BA. 31 other Teachers.

CHANGANACHERRY, *N.S.S. Hindu College* (tel. : 90). Pre-Univ. Pass courses in Engl., philos., hist., pol., maths., phys., chem., zool., Malayalam, Hindi and comm.; dipl. course in soc. service. Principal—G. Balakrishna Pillai, MA BL. 50 other Teachers.

CHANGANACHERRY, *St. Berchmans' College* (tel. : 25). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool. and Malayalam; postgrad. courses in econ. and Malayalam; pre-professional courses in engin., med., dent. surg., Ayurveda, agric. and vet. sci. Principal—Rev. Fr. P. C. Mathew, MA. 62 other Teachers.

CHITTUR, *Govt. College*. Pre-Univ. Pass courses in philos., econ., music, maths., phys., chem., bot., zool., Malayalam, Tamil and comm. Principal—C. M. S. Mohideen Shah, MA L.T. 55 other Teachers.

DEVAGIRI, *St. Joseph's College* (tel. : 909). Pre-Univ. Pass courses in Engl., econ., maths., phys., chem., zool., Malayalam, Hindi and Syriac; postgrad. courses in Engl. and maths. Principal—Rev. P. Theodosius, MA PhD. 36 other Teachers.

ERNAKULAM, *Maharaja's College* (tel. : 104). Pre-Univ. Pass courses in hist., econ., maths., phys., chem., bot., zool., Malayalam, Sansk. and Hindi; postgrad. courses in Engl., hist., econ., maths., phys., appl. chem., chem., bot., zool., Malayalam and Hindi; pre-professional courses in engin., med., dent. surg., Ayurveda, agric. and vet. sci. Principal—T. M. Menon, MSc. 109 other Teachers.

ERNAKULAM, *St. Albert's College* (tel. : 182). Pre-Univ. Pass courses in hist., maths., phys., chem., bot. and zool. Principal—Rev. Fr. X. Kaniampurath, MA. 35 other Teachers.

ERNAKULAM, *St. Teresa's College* (tel. : 197). Pre-Univ. Pass courses in econ., pol., French, maths., phys., bot. and home sci.; dipl. course in soc. service. Principal—Sister M. Digna, BA. 34 other Teachers.

FEROKE, *Farook College*. Pre-Univ. Pass courses in econ., maths., phys., chem., zool., Arabic and comm.; postgrad. course in maths. Principal—K. A. Jaleel, MA. 40 other Teachers.

GURUVAYOOR, *Little Flower College* (tel. : 57). Pre-Univ. Pass courses in econ., maths., zool. and Malayalam. Principal—Sister Mary Victoria, BA LT. 16 other Teachers.

IRINJALAKUDA, *Christ College* (tel. : 58). Pre-Univ. Pass courses in econ., chem., zool. and comm. Principal—Rev. Fr. A. Gabriel, MA. 33 other Teachers.

KALADY, *Sree Sankara College*. Pre-Univ. Pass courses in econ., maths., phys., chem., zool., Sansk. and comm. Principal—E. Raman Menon, MA. 31 other Teachers.

KASARAGOD, *Govt. College*. Pre-Univ. Pass courses in hist., econ. and maths. Principal—K. R. Ramakrishnan, MA L.T. 13 other Teachers.

KOTHAMANGALAM, *Mar Athanasius College* (tel. : 26). Pre-Univ. Pass courses in econ., maths., phys., chem. and zool.; pre-professional course in engin. Principal—Rev. Fr. V. M. Geevarghese, MA. 20 other Teachers.

KOTTAYAM, *Bishop Chulaparambil Memorial College* (tel. : 527). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool. and Hindi; dipl. course in soc. service. Principal—Anna Nidhiri, MA. 31 other Teachers.

KOTTAYAM, *C.M.S. College* (tel. : 471). Pre-Univ. Pass courses in Engl., hist., maths., phys., chem., zool. and home sci.; postgrad. course in Engl. Principal—P. C. Joseph, MA. 48 other Teachers.

KOZHENCHERRY, *St. Thomas College*. Pre-Univ. Pass courses in econ., maths., phys., chem., bot. and zool. Principal—A. J. Cherian, MA. 32 other Teachers.

MADAPPALLI, *Govt. College*. Pre-Univ. Pass courses in hist. and maths. Principal—C. C. David, MA. 12 other Teachers.

MUVATTUPUZHA, *Nirmala College*. Pre-Univ. Pass courses in econ., maths., phys., chem., bot. and comm. Principal—Rev. Fr. T. Nedumkallil, MA BT. 35 other Teachers.

PALAI, *St. Thomas College* (tel. : 17). Pre-Univ. Pass courses in econ., pol., maths., phys., chem., bot., zool. and Malayalam; postgrad. courses in pol., stats. and Hindi. Principal—Rev. Fr. J. Kureeathadam, MA. 61 other Teachers.



**PALGHAT, Govt. Victoria College** (tel. : 173). Pre-Univ. Pass courses in Engl., philos., hist., econ., maths., phys., chem., bot., zool., Malayalam, Hindi and comm.; postgrad. courses in Engl., appl. phys., zool. and statistics; pre-professional courses in engin., med., dent. surg., Ayurveda, agric. and vet. sci. Principal—C. P. K. Tharagan, BA LT. 93 other Teachers.

**PANDALAM, N.S.S. College** (tel. : 1). Pre-Univ. Pass courses in Engl., econ., maths., phys., chem., bot., zool., Malayalam and comm. Principal—K. C. Nambiar, BA Oxon., MA. 53 other Teachers.

**PATHANAMTHITTA, Catholocate College.** Pre-Univ. Pass courses in econ., maths., phys., chem., bot. and Malayalam. Principal—T. B. Ninan, MA. 34 other Teachers.

**QUILON, Fatima Mata National College** (tel. : 2284). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool. and comm. Principal—Rev. Fr. M. Kuttiath, MA LT. 54 other Teachers.

**QUILON, Sree Narayana College** (tel. : 459). Pre-Univ. Pass courses in Engl., econ., pol., maths., phys., chem., bot., zool., Malayalam, Hindi and comm.; postgrad. courses in pol. and econ. Principal—M. Sreenivasan, MA PhD. 74 other Teachers.

**QUILON, Sree Narayana College for Women** (tel. : 2269). Pre-Univ. Pass courses in econ., chem., bot., zool. and home sci. Principal—E. K. Santha, MA LT. 29 other Teachers.

**TELLICHERRY, Govt. Brennen College** (tel. : 27). Pre-Univ. Pass courses in Engl., hist., econ., maths., phys., chem., bot., zool. and Malayalam; postgrad. course in hist. Principal—E. R. Warriar, MA BT. 49 other Teachers.

**THEVARA, Sacred Heart College** (tel. : 171). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool., Malayalam and comm.; postgrad. courses in econ. and zool.; dipl. course in soc. service. Principal—Rev. Fr. Theobald, MSc PhD. 61 other Teachers.

**TIRUVALLA, Mar Thoma College** (tel. : 42). Pre-Univ. Pass courses in philos., econ., maths., phys., chem. and bot. Principal—M. V. John, MA. 41 other Teachers.

**TRICHUR, St. Mary's College** (tel. : 100). Pre-Univ. Pass courses in econ., maths., phys., chem. and bot. Principal—Sister Annunciata, BSc. 33 other Teachers.

**TRICHUR, St. Thomas College** (tel. : 152). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool., stats. and comm. Principal—Rev. Fr. I. Mampilly, MA. 50 other Teachers.

**TRICHUR, Sree Kerala Varma College** (tel. : 176). Pre-Univ. Pass courses in Engl., econ., maths., phys., chem., bot., zool., Malayalam, Hindi and comm. Principal—R. Varma, MA BCom LLB. 55 other Teachers.

**TRIVANDRUM, H.H. The Maharaja's College for Women** (tel. : 2986). Pre-Univ. Pass courses in philos., hist., econ., music, maths., phys., chem., bot., zool. and home sci. Principal—C. Thankom, BA LT. 68 other Teachers.

**TRIVANDRUM, H.H. The Maharaja's Sanskrit College** (tel. : 3312). Pre-Univ. (Sansk.), BA (Sansk.) and postgrad. course in Nyaya and Vedanta. Principal—P. K. Narayana Pillai, MA PhD. 19 other Teachers.

**TRIVANDRUM, H.H. The Maharaja's University College** (tel. : 2030). Pass courses in Engl., philos., hist., econ., pol., maths., phys., chem., bot., zool., geol., Sansk., Malayalam, Hindi, Tamil; postgrad. courses in Engl., philos., hist., econ., maths., phys., chem., bot., zool., Sansk., Malayalam and Hindi. Principal—V. R. Pillai, MA MSc. 125 other Teachers.

**TRIVANDRUM, Mahatma Gandhi College** (tel. : 2139). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool. and comm. Principal—M. P. Manmathan, MA. 48 other Teachers.

**TRIVANDRUM, Mar Ivanios College** (tel. : 2153). Pre-Univ. Pass courses in econ., maths., phys., chem., bot., zool., Malayalam and comm.; pre-professional course in med. Principal—Rev. Fr. F. Kalacherry, BSc. 56 other Teachers.

**TRIVANDRUM, N.S.S. College for Women** (tel. : 2173). Pre-Univ. Pass courses in hist., econ., bot. and home sci. Principal—C. Saradamma, MA LT. 22 other Teachers.

## SECOND GRADE COLLEGES

**CANNANORE, Sree Narayana College.** Pre-Univ. Principal—R. Madhava Row, MSc. 12 other Teachers.

**TRIVANDRUM, University Intermediate College**

(tel. : 2040). Pre-Univ.; pre-professional courses in engin., med., dent. surg., Ayurveda, agric. and vet. sci. Principal—N. Krishna Pillai, BA. 28 other Teachers.

## Professional Colleges

**CALICUT, Govt. Training College.** BEd. Principal—Miss Mary Varughese, MA TD Lond. 13 other Teachers.

**CALICUT, Medical College** (tel. : 3811). MBBS. Principal—K. N. Pisharoty, MD DTM Calc., MRCP. 30 other Teachers.

CHANGANACHERRY, *N.S.S. Training College* (tel. : 8). BEd. Principal—M. Gopalan Nair, MA LT. 6 other Teachers.

ERNAKULAM, *H.H. The Maharaja's Law College* (tel. : 20). BL. Postgrad. course in law (ML)—law of contracts and mercantile law. Principal—V. N. Subramonia Iyer, MA ML. 4 other Teachers.

ERNAKULAM, *St. Joseph's Training College for Women* (tel. : 651). BEd. Principal—Lilly Kurien, MA BT. 6 other Teachers.

KOTTAYAM, *Mount Carmel Training College* (tel. : 2020). BEd. Principal—Sister M. Crucifix, BA LT MED. 7 other Teachers.

MANNANAM, *St. Joseph's Training College* (tel. : 606). BEd. Principal—Rev. Fr. Papias, MA BT. 5 other Teachers.

MAVELIKARA, *C.S.I. Training College*. BEd. Principal—A. Cheriyan, MA TD. 5 other Teachers.

MOOTHAKUNNAM, *S.N. Training College*. BEd. Principal—G. Ramanatha Iyer, BA LT. 6 other Teachers.

NEDUNGANDA, *Sree Narayana Training College*. BEd. Principal—K. P. Govindan, MA BT. 6 other Teachers.

OTTAPPALAM, *N.S.S. Training College*. BEd. Principal—C. Krishna Das, MA LT. 6 other Teachers.

PAI AI, *St. Thomas Training College*. BEd. Principal—A. O. Joseph, MA LT. 4 other Teachers.

PALGHAT, *N.S.S. College of Engineering*. Pre-professional in engin. ; BSc(Eng.) in civil, mech. and electr. engin. Principal—P. C. Eapen, BSc (Engg). 9 other Teachers.

PANDALAM, *N.S.S. Training College*. BEd. Principal—T. Gopala Pillai, MA LT. 5 other Teachers.

PATHANAPURAM, *Mt. Tabor Training College*. BEd. Principal—V. Murthy, BSc BT MED. 6 other Teachers.

QUILON, *Karmela Rani Training College*. BEd. Principal—P. S. Abraham, BA MED Leeds. 7 other Teachers.

QUILON, *Thangal Kunju Musaliar College of Engineering* (tel. : 2004). Pre-professional in

engin. ; BSc(Eng) in civil, mech. and electr. engin. Principal—..... 16 other Teachers.

TELLICHERRY, *Govt. Training College*. BEd. Principal—K. Raghavan, BA LT. 8 other Teachers.

TIRUVALLA, *Titus II Teachers' College*. BEd. Principal—Rev. T. C. Thomas, MA LT BD. 6 other Teachers.

TRICHUR, *Engineering College* (tel. : 502). Pre-professional in engin. ; BSc(Eng) in civil, mech. and electr. engin. Principal—S. Rajaraman, BE. 14 other Teachers.

TRICHUR, *Govt. Training College* (tel. : 490). BEd. Principal—T. P. Varghese, BA MED DipEd Leeds. 10 other Teachers.

TRICHUR, *Veterinary College* (tel. : 423). BVSc. Principal—M. N. Menon, BVSc. 30 other Teachers.

TRIVANDRUM, *Ayurveda College* (tel. : 2251). Degree (BAM) and dipl. (DAM) in Ayurveda. Principal—Dr. K. K. Nambiar. 37 other Teachers.

TRIVANDRUM, *College of Engineering* (tel. : 2010). BSc(Eng) in civil, mech. and electr. engin. ; postgrad. course in engin. (electr. machine des., hydr., irrigation and flood control and struct. engin.). Principal—M. V. Kesava Rao, BSc PhD. 49 other Teachers.

TRIVANDRUM, *H.H. The Maharaja's Training College* (tel. : 2964). BEd. Principal—K. M. Mani, BA LT. 13 other Teachers.

TRIVANDRUM, *Law College* (tel. : 3326). BL. Principal—M. George, BA ML. 4 other Teachers.

TRIVANDRUM, *Mar Theophilus Training College*. BEd. Principal—T. Y. Harris, MA LT. 7 other Teachers.

TRIVANDRUM, *Medical College* (tel. : 2729). MB BS ; postgrad. course in MD (gen. med.), MD (obstet. & gynecol.) and MS (gen. surg.). Principal—M. Thangavelu, MD. 82 other Teachers.

VELLAYANI, *Agricultural College* (tel. : 3021). BSc(Agric). Principal—L. S. S. Kumar, DIC, MSc. 23 other Teachers.

### Oriental Title Institutions

AREACODE, *Sullamussalam Arabic College*. Course for Afzal-ul-ulama. Principal—M. Sheik Moham-med Sahib. 6 other Teachers.

FEROKE, *Madeenathul Uloom Arabic College*. Course for Afzal-ul-ulama. Principal—M. C. C. Abdurahman Moulavi. 5 other Teachers.

FEROKE, *Rouzathul Uloom Arabic College*. Course for Afzal-ul-ulama. Principal—Abus-sabah Ahmed Ali, MA. 6 other Teachers.

KANJIRAPALLY, *Nurul Huda Arabic College*. Course for Afzal-ul-ulama. Principal—C. H. Mohamed Kunhi. 3 other Teachers.

PATTAMBI, *Sree Neelakanta Govt. Sanskrit College*. Courses for Vidvan (Sansk.) and Vidvan (Malayalam). Principal—P. V. Rama Iyer, Siromani. 5 other Teachers.

PAVARATTY, *Sahitya Deepika Sanskrit College*. Courses for Vidvan (Sansk.) and Vidvan (Malayalam). Principal—P. K. Francis, Siromani. 6 other Teachers.

PERDALA, *Mahajana Sanskrit College*. Courses for Vidvan (Sansk.) and Vidvan (Kannada). Principal—K. S. Bhat, MA. 7 other Teachers.

## GENERAL INFORMATION

The Univ. of Travancore, now reconstituted as the Univ. of Kerala, was establd. under an act promulgated by H.H. the Maharaja of Travancore on Nov. 1, 1937. The chief aims of the univ. were stated as being to effect a reorganization of the system of educn. in the state with a view to the gradual devel. of technical and technol. educn.; to make greater and more systematic provision for furtherance of original res. in the various branches of appl. sci., and to provide for conservation and promotion of Kerala art and culture.

With the reorganization of states and the formation of the new state of Kerala, it was found necessary to reconstitute the univ. into a teaching and federal univ. for the whole of the state of Kerala in order to enable it to provide for the conservation, promotion and development of Kerala art and culture and the Malayalam lang. and for the gradual change of the medium of instructn. into Malayalam in all educnl. instns. of the state, and to provide greater facilities for postgrad. study and original res. in all branches of learning by establishing centres of postgrad. study and res. in different parts of the state. The Kerala Univ. Act came into force on Aug. 30, 1957, and the Univ. of Travancore became the Univ. of Kerala from that date.

**CONSTITUTION.** The governor of the state of Kerala is chancellor of the univ., and the pro-chancellor is the minister of education for the state. The vice-chancellor, the principal academic and executive officer of the univ., is apptd. by the chancellor on the unanimous recommendation of a sp. cttee. of 3 members (1 elected by the senate, 1 by the syndicate, and 1 nominated by the chancellor), to hold office for 3 yrs., the appt. of the first vice-chancellor under the Kerala Univ. Act being made, however, by the chancellor.

The other authorities of the univ. are the senate, syndicate and facs. The senate, to be reconstituted every 3 yrs., includes, *ex officio*, elected and nominated members and has the general superintendence over the affairs, concerns and properties of the univ. The syndicate, of 16 members, is the executive body and exercises general superintendence and control over the instns. of the univ. The facs. advise the senate and syndicate on all academic matters.

**INCOME (1958-59).** Rs. 4,994,781 (govt. grant, fees & misc.).

**FACULTIES.** Agric., arts, Ayurveda, comm., educn., engin., fine arts, law, med., oriental studies, sci., technol., vet. sci. See also p. 496.

**LIBRARIES.** Univ. library contains 71,657 books; univ. MSS library, over 33,300 MSS and 3000 printed books.

**LABORATORIES.** Appl. chem., marine biol., oceanog., stats.

**ADMISSION.** Admission to pre-univ. course is open to candidates who have passed the secondary

sch. leaving cert. exam. conducted by the educn. dept. of the Kerala state or any other exam. accepted by syndicate as equivalent.

**FIRST DEGREES.** 2 yrs. after inter. or 3 yrs. after pre-univ.—BA, BSc, BCom; 3 yrs. after inter.—BA (hons.), BSc (hons.). After inter. or pre-professional: 3 yrs.—BSc(Agri); 4 yrs.—BSc(Eng), BVSc; 5 yrs.—BAM (Ayurvedic med.); 5½ yrs.—MB BS.

**HIGHER DEGREES.** 1 yr.—BED; 2 yrs.—BL, MA (course), MSc (course), MEd (after BT), MI, (after BL); 3 yrs.—MSc by res.; 2 yrs. after MSc by res., 3 yrs. after MA or MSc by exam.—PhD (by res.); 2 yrs. after PhD—DLitt, DSc

**HONORARY DEGREES.** DSc, DLitt, LL.D.

**DIPLOMAS.** Ayurveda, 5 yrs. after S.S.I.C.

**ORIENTAL STUDIES.** The following titles are awarded by exam.: 3 yrs. after S.S.I.C. or entrance exam. in the corresp. lang.—Vidvan (Hindi, Kannada, Malayalam, Sanskrit, Tamil), 4 yrs. after S.S.I.C. or entrance to Afzal-ul-ulama title exam.—Afzal-ul-ulama (Arabic).

**RESEARCH.** To promote res. in appl. sci. a Central Res. Inst. was founded in 1939 by amalgamating scientific units of various govt. depts. The inst. was reorganized in 1956 and again in 1959. With the last reorganization the following depts. and sections became independent depts. of study and/or res. and function directly under the vice-chancellor: stats., appl. chem., marine biol. & fisheries, mineral survey & res. and pharmacognosy. The chairman of the new council of res. is the vice-chancellor.

**FEES.** Tuition fees p.a.: pre-univ. and pre-professional, Rs. 128; BA, BSc (pass & hons.), Rs. 128; BA, BSc (3 yrs.), Rs. 128; FL & BL, Rs. 160; BT, Rs. 150; BSc(Eng), Rs. 200; MB BS, Rs. 240.

**ACADEMIC YEAR.** June to April, 3 terms: June to Aug. 31; Sept. 13 to Dec. 22; Jan. 4 to March 17.

**LANGUAGE OF INSTRUCTION AND EXAMINATION.** English.

**RESIDENCE.** Students not living with their parents or guardians must live in approved hostels or lodgings. Besides the hostels maintained by govt. and the univ. there are also private hostels recog. by the univ.

**MEDICAL INSPECTION AND PHYSICAL EDUCATION.** Provision has been made for inspection by qualified med. officers of students in the pre-univ. classes. Phys. educn. is compulsory for the pre-univ., pre-professional and 1st yr. of the 3-yr. degree courses and the colls. have qualified phys. instrs. Athletics have been provided for in all colls. Univ. tennis stadium; stadium for field sports. Instructn. in Yogic phys. culture.

**THE UNIVERSITY EMPLOYMENT BUREAU** functions as an integral part of the National Employ-

ment Service with freedom to develop on its own lines. It aims to make available to univ. students all current lit. and information relating to careers and openings and information regarding current competitive exams., various courses of studies of a specialized or professl. nature offered by other univs. in India and other countries and assist univ. students in taking up such trg. or studies ; to select and submit suitable registrants of the bureau against vacancies for apprentices and trainees in private establs., etc.

DEPARTMENT OF PUBLICATIONS. This dept. publishes new books of literary and scientific interest in Tamil and Malayalam.

PUBLICATIONS. *Calendar* : 2 pts. (pt. I, act, statutes, ordinances, etc., every 3 yrs., Rs. 4.50 ; pt. II, syllabus, every 3 yrs., Rs. 2 ; *List of Text-books* for univ. exams., annual, R. 1 ; *Administration Report* (annual) ; *Journal of Indian Hist.* (3 issues p.a.), Rs. 10.50 p.a. ; *Sanskrit Journal* (quarterly), Rs. 4 p.a.

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed* - senate house.

NEW CHAIRS. Econ., bot., educn.

RETIREMENT. Dr. U. Sivaraman Nair (stats.).

RESIGNATION. Dr. J. Matthai (vice-chancellor).

### Statistics

#### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	27,700	—
Women . .	10,674	—
Total .	38,374	—

Distribution by Faculties. *Agric.*, 237 ; *arts*, *sci. & oriental studies*, 31,834 ; *Ayurveda*, 225 ; *comm.*, 1774 ; *educn.*, 1524 ; *engin.*, 1169 ; *fine*

*arts*, 30 ; *law*, 321 ; *med.*, 916 ; *vet. sci.*, 344. Total : 38,374.

*Included in the figures above are :—*

Pre-University students, 12,320.

Postgraduate students, 2668.

New admissions, 12,408.

Students from other countries, 42. (Countries from which largest numbers came : Ceylon, 19 ; E. Africa, 10 ; Nepal, 10).

DEGREES AWARDED (1958-59). *Agric.* : BSc (Agric), 25. *Arts* : BA, 1517 ; BA (hons.), 45 ; MA, 76. *Ayurveda* : BAM, 9. *Comm.* : BCom, 194. *Educn.* : BT, 572 ; MEd, 2. *Engin.* : BSc(Eng), 113. *Law* : BL, 195. *Med.* : MB BS, 68. *Oriental studies* : BA, 109. *Sci.* : BSc, 1506 ; BSc (hons.), 42 ; MSc, 62. PhD : 7.

# UNIVERSITY OF LUCKNOW

Founded 1921

Postal Address : Badshah Bagh, Lucknow, Uttar Pradesh, India

Telephones : Univ. Office, 2270 ; Registrar, 3138

CHANCELLOR—THE GOVERNOR OF UTTAR PRADESH

VICE-CHANCELLOR—Professor KALI PRASAD, MA LLB *Alld.*

HON. TREASURER AND REGISTRAR—K. D. TEWARI, MA LLB

PROCTOR—B. N. SHARMA, LLM

HON. LIBRARIAN—Professor KALI PRASAD, MA LLB *Alld.*

## TEACHING STAFF

[†=Part-Time]

CANNING COLLEGE (Arts, Science, Law, Commerce and Oriental Dept.)

(Telephone : 2270)

### Ancient History and Archæology

Dixit, R. K., MA PhD Prof.

..... Asst. Prof.

Puri, B. N., BLitt DPhil *Oxon.*, MA LLB

..... Asst. Prof.

Srivastava, B. N., MA Asst. Prof.

Singh, S. D., MA Asst. Prof.

Avasthi, A. B. Lal, MA Asst. Prof.

Saksena, K. K., MA Asst. Prof.

Thaplyal, K. K., MA Asst. Prof.

### Anthropology

Sen, D. K., MSc *Calc.* Actg. Prof.

Mathur, K. S., MA BCom Asst. Prof.

Sarna, G., MA Asst. Prof.

Madan, T. N., PhD *Melb.*, MA Asst. Prof.

Jain, R. K., MA Temp. Asst. Prof.

Srivastava, R. P., MA Temp. Asst. Prof.

### Applied Economics

Gupta, O. P., BSc(Econ) PhD *Lond.* Prof.

Datt, G., MA MCom LLB Asst. Prof.

Hajela, G. L., MA *Alld.*, LLB PhD Asst. Prof.

Singh, M. P., MA MCom PhD Asst. Prof.

Rastogi, J. L., MCom PhD Temp. Asst. Prof.

Mareshwari, K. L., MCom Temp. Asst. Prof.

Varshney, P. N., MCom Temp. Asst. Prof.

Khandelwal, B. N., MCom PhD

..... Temp. Asst. Prof.

Bangia, R. K., MCom LLM Temp. Asst. Prof.

### Arabic

Samadi, S. B., MA PhD Dabir-i-Kamil Prof.

..... Asst. Prof.

Alavi, M. H., MA PhD

Ahmad, E., MA PhD

Asst. Prof.

Asst. Prof.

**Astronomy**, see Maths.

### Botany

Das Gupta, S. N., DIC, MSc *Calc.*, PhD

DSc *Lond.* (on leave) Prof.

Ramchandra Rao, A., DSc Actg. Prof.

Varma, G. S., MSc PhD, FLS Asst. Prof.

Agarwal, S. C., PhD *Brist.*, MSc *Brist.* &

*Luck.* Asst. Prof.

Trivedi, B. S., MSc Asst. Prof.

Rai, J. N., MSc PhD Asst. Prof.

Ram Udar, MSc PhD Asst. Prof.

Prasad, B. N., MSc PhD Asst. Prof.

Awasthi, D. D., MSc Asst. Prof.

Sharma, B. B., MSc PhD Asst. Prof.

Raghuvanshi, S. S., PhD *Alld.*, MSc Asst. Prof.

John, Rachel, MSc PhD

(on leave) Temp. Asst. Prof.

Saxena, B. N., MSc Temp. Asst. Prof.

Sharma, C. P., MSc Temp. Asst. Prof.

Sharma, Miss Usha, MSc Temp. Asst. Prof.

### Business Administration

Sharma, S. L., MCom PhD

(on leave) Asst. Prof., Hd. of Dept.

Pandey, A., MA *Alld.* Asst. Prof.

Varshney, R. L., MCom PhD Asst. Prof.

Joshi, L. D., MCom DPA Asst. Prof.

Srivastava, K. S., MCom PhD Asst. Prof.

Kaushal, O. P., MA MBA *Penn.*

Temp. Asst. Prof.

**Chemistry**

Sen, A. B., MSc PhD	Prof.
Shukla, S. N., PhD Lond., MSc	Prof.
Krishnan, P. S., PhD Corn., MA MSc	Prof.
Varma, S. C., MSc	Asst. Prof.
Srivastava, L. N., MSc PhD	Asst. Prof.
Mukerji, L. N., DIC, PhD Lond., MSc	Asst. Prof.

Yadava, B. P., MSc PhD	Asst. Prof.
Gopal, R., MSc PhD	Asst. Prof.
Tewari, S. S., MSc PhD	Asst. Prof.
Srivastava, T. N., MSc PhD	Asst. Prof.
Misra, G. S., MSc PhD	Asst. Prof.
Bose, A. N., MSc PhD	Asst. Prof.
Misra, V. S., MSc PhD	Asst. Prof.
Pande, C. S., MSc PhD	Asst. Prof.
Joshi, K. C., MS Ill., MSc PhD	Asst. Prof.
Rastagi, M. C., MSc PhD	Asst. Prof.
Srivastava, R. D., MSc PhD	Asst. Prof.
Khare, M. P., MSc	Asst. Prof.
Agarwal, R. C., MSc	Asst. Prof.
Mukerji, D. D.	Temp. Asst. Prof.
Shukla, J. S., MSc PhD	Temp. Asst. Prof.
Sen Gupta, A. K., MSc	Temp. Asst. Prof.
Sanwal, G. G., MSc	Temp. Asst. Prof.
Gupta, S. S., MSc	Temp. Asst. Prof.
Kulkarni, Y. D., MSc PhD	Temp. Asst. Prof.
Tewari, K. K., MSc	Temp. Asst. Prof.
Krishnan, P. R., MSc	Temp. Asst. Prof.
Prasad, J., MSc	Temp. Asst. Prof.
Bhargava, H. N., MSc PhD	Temp. Asst. Prof.
Bhatnagar, M. P., MSc PhD	Temp. Asst. Prof.

**Commerce**

Sarkar, K. C., MA PhD	Prof.
Lall, R. M., MCom LLB, FCA	Asst. Prof.
Kapoor, T. N., MCom LLB PhD	Asst. Prof.
Sinha, I. B., MCom, FCA	Asst. Prof.
Saksena, K. K., MCom PhD	Temp. Asst. Prof.
Saxena, P. N., MCom PhD	Temp. Asst. Prof.
Tandon, R. K., MCom	Temp. Asst. Prof.
Saxena, R. C., MCom	Temp. Asst. Prof.
Gupta, H. O., MCom	Temp. Asst. Prof.
Srivastava, P. N., MCom	Temp. Asst. Prof.

**Economics**

Singh, B., MA LLB PhD DLitt	Prof.
Joshi, M. D., MA Alld., DLitt	Asst. Prof.
Chandra, P., MA	Asst. Prof.
Khan, N. A., MA PhD DLitt	Asst. Prof.
Seth, K. C. G., MA	Asst. Prof.
Misra, S. D., MA Alld., PhD	Asst. Prof.
Singh, V. B., MA PhD	Asst. Prof.
Srivastava, H. G. P., MA BCom LLB PhD	Asst. Prof.
Singh, S., MA	Temp. Asst. Prof.
Banerji, P., MA	Temp. Asst. Prof.
Misra, D. K., MA	Temp. Asst. Prof.
Ahluwala, R. S., MA	Temp. Asst. Prof.
Srivastava, N. N., MA PhD	Temp. Asst. Prof.
Saxena, P. M., MA	Temp. Asst. Prof.

**Education**

Mathur, R. B., BA PhD DPA Lond., CertEd Camb.	Asst. Prof.
---	-------------

Jha, S. N., BSc MA Agra, LT Alld., EdD Oregon	Asst. Prof.
Jaiswal, S. R., MA EdM PhD Mich.	Asst. Prof.
Paranjyoti, Miss V., MA LT PhD Madr.	Asst. Prof.

Singh, R. P., MA BT Calc., BEdSc	Asst. Prof.
Mukherji, L., MA BEd PhD	Asst. Prof.
Chaubey, S. P., MA EdD Oregon	Asst. Prof.
Gupta, R. P., MA BEdSc MED	Temp. Asst. Prof.

Kaur, Mrs. Surjeet, MA MED	Temp. Asst. Prof.
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**English**

Rao, A. V., MA Madr., PhD Lond.	Prof.
Mohan, R., MA PhD Leeds	Asst. Prof.
Rastogi, R. S., MA	Asst. Prof.
Narain, S. K., MA	Asst. Prof.
Chandra, N., MA	Asst. Prof.
Jamiluddin, K., MA PhD	Asst. Prof.
Sinha, S. M., MA PhD	Asst. Prof.
Saxena, P. K., MA PhD	Asst. Prof.
Chaturvedi, B. N., MA PhD	Asst. Prof.
Deoki, Mrs. Rampal, MA LLB	Asst. Prof.
Mangalik, Mrs. Mohini, MA	Asst. Prof.
Dixit, K. K., MA	Asst. Prof.
Chaubey, S. K., MA PhD	Asst. Prof.
Mathur, K. C., MA PhD	Asst. Prof.
Siddiqi, N. H., MA	Asst. Prof.
Srivastava, R. N., MA	Asst. Prof.
Misra, J. B., MA	Asst. Prof.
Srivastava, A. K., MA	Asst. Prof.
Bisaria, R., MA	Temp. Asst. Prof.
Kanchan, G. K., MA	Temp. Asst. Prof.

**French, see Mod. European Langs.****Geology**

Misra, R. C., MSc PhD	Prof.
Tewari, B. S., MSc	Asst. Prof.
Singh, S. N., MSc	Asst. Prof.
Kharkwal, A. D., MSc Ban.	Asst. Prof.
Bhatia, S. B., DIC, MSc PhD Lond., FGS	Asst. Prof.
Vimal, K. P., MSc	Asst. Prof.
Valdiya, K. S., MSc	Asst. Prof.
Singh, S. K., MSc	Asst. Prof.
Chandra, G., MSc	Temp. Asst. Prof.

**German, see Mod. European Langs.****Hindi**

Gupta, D. D., MA LLB DLitt Alld.	Prof.
Shukla, K. N., MA DLitt Ban.	(on leave) Asst. Prof.
Mishra, B., MA PhD	(on leave) Asst. Prof.
Agarwal, S. P., MA LLB PhD	Asst. Prof.
Avasthi, H. K., MA	Asst. Prof.
Dikshit, T. N., MA LLB PhD DLitt	Asst. Prof.
Trivedi, V. B., MA DPhil Calc.	Asst. Prof.
Misra, B. K., MA	Asst. Prof.
Dikshit, H. L., MA PhD	Asst. Prof.

Tandon, P. N., MA	Asst. Prof.	Upadhaya, M. D., MSc PhD	Asst. Prof.
Shukla, Mrs. Sarla, MA PhD		Chak, A. M., MSc PhD	Asst. Prof.
	(on leave) Asst. Prof.	Singh, Mrs. K. D., MA PhD	Asst. Prof.
Agrawal, R. P., MA <i>Calc. &amp; Luck.</i>	Asst. Prof.	Chaudhuri, P. C., MSc PhD <i>Lond.</i>	Asst. Prof.
Srivastava, D. D. N., MA PhD		Srivastava, R. K., MSc	Temp. Asst. Prof.
	Temp. Asst. Prof.		
Yadava, S. L., MA PhD	Asst. Prof.		
Gupta, Mrs. Usha, MA PhD	Temp. Asst. Prof.		
Shukla, P., MA	Temp. Asst. Prof.		
Gupta, B. C.	(Bengali) †Asst. Prof.		
Bhakay, G. N., MSc LLB			
	(Marathi) †Asst. Prof.		
Soundrarajan, R.	(Tamil) †Asst. Prof.		

### History, see also Anc. Hist. and Archaeol.

Chatterji, N. L., MA <i>Alld.</i> , DLitt PhD	Prof.
Nagar, R. N., MA PhD	Asst. Prof.
Misra, G. S., MA	Asst. Prof.
Srivastava, K. C., MA	Asst. Prof.
Kishore, B., MA LLB PhD	Asst. Prof.
Dube, S. P., MA LLB DPA	Asst. Prof.
Yasin, M., MA LLB PhD	Temp. Asst. Prof.
Seth, U. D., MA LLB	Temp. Asst. Prof.

### Law

Nigam, S. S., MSc LLM	Prof.
Shukla, V. N., PhD <i>Lond.</i> , BA LLB	Prof.
Gupta, B. K., JSD <i>Yale</i> , BSc LLM	Asst. Prof.
Nigam, R. C., MA LLM PhD	Asst. Prof.
Sharma, B. N., BA LLB	Asst. Prof.
Tandon, L. N., LLM	Asst. Prof.
Sharma, G. S., JSD <i>Yale</i> , MA LLM	
	(on leave) Asst. Prof.
Kumari, Miss Shraddha, MA LLM <i>Yale</i>	Asst. Prof.
	Asst. Prof.
Agarwal, S. K., MA LLM	
Kumari, Mrs. Raj Agarwal, MA	
LLM <i>Yale</i>	Asst. Prof.
Vyas, R. C., LLM	Temp. Asst. Prof.
Srivastava, B. P., LLM	Temp. Asst. Prof.
Dhyani, S. N., LLM	Temp. Asst. Prof.
Shukla, V. S., MA LLM	Temp. Asst. Prof.
Singh, A., LLB	Temp. Asst. Prof.
Pandey, D. C., LLM	Temp. Asst. Prof.
Mathur, L. N., MA LLM	Temp. Asst. Prof.
Krishnan, P. G., MA LLM	Temp. Asst. Prof.
Arora, G. K., LLM	Temp. Asst. Prof.
Sharma, B. K., LLB	Temp. Asst. Prof.
Rekhi, V. S., LLB	Temp. Asst. Prof.

### Mathematics and Astronomy

Ballabh, R., MSc PhD	Prof.
Agarwal, R. P., MSc PhD	Asst. Prof.
Shukla, U. K., MSc LLB PhD	Asst. Prof.
Shukla, K. S., MA DLitt	Asst. Prof.
Jaiswal, J. P., MSc LLB PhD	Asst. Prof.
Sharma, A., MA PhD	Asst. Prof.
Bose, S. K., PhD DSc	Asst. Prof.
Ishaq, M., DU <i>Paris</i> , MA PhD	Asst. Prof.
Chandra, D., MSc	Asst. Prof.
Misra, D. N., MSc	Asst. Prof.
Mehra, A. N., MSc	Asst. Prof.
Srivastava, H. M., MA	Asst. Prof.

### Modern European Languages

Ishaq, Mrs. Isabella	(French) Asst. Prof.
Kashyap, Mrs. Anita, LL.D	(German) Asst. Prof.
.....	(Russian) Asst. Prof.

### Persian and Urdu

Mosvi, S. Y. H., MA	Prof.
Husain, S. E., MA <i>Alld.</i>	Asst. Prof.
Hashmi, N. H., MA <i>Alig. &amp; Luck.</i> , PhD <i>Alig.</i>	(Urdu) Asst. Prof.
Khan, A. A., MA <i>Alig.</i> , LLB	(Urdu) Asst. Prof.
Hasan, S. S., MA LLB	Asst. Prof.
Husain, R., MA DPhil <i>Alld.</i>	Temp. Asst. Prof.

### Psychology and Philosophy

Narain, R., MA LLB PhD <i>Col.</i>	Prof.
Dasgupta, Mrs. Surama, MA <i>Calc.</i> PhD	Asst. Prof.
<i>Calc. &amp; Camb.</i>	Asst. Prof.
Asthana, H. S., MA PhD	Asst. Prof.
Loomba, R. M., MA LLB	Asst. Prof.
Chandra, S., MA	Asst. Prof.
Devaraja, N. K., MA DPhil <i>Alld.</i>	Asst. Prof.
Adhikari, Mrs. Kamini, MA	Asst. Prof.
Bhasin, Miss Usha, MA PhD	Temp. Asst. Prof.
Misra, R. K., MA	Temp. Asst. Prof.

### Physics

Sharma, P. N., PhD DSc	Prof.
Dutt, S. K., MSc	Asst. Prof.
Mathur, S. B. L., MSc	Asst. Prof.
Gokhale, B. G., MSc PhD	Asst. Prof.
Saraf, J. R., MSc PhD	Asst. Prof.
Vachaspati, MSc PhD	Asst. Prof.
Banerji, A. C., MSc	Asst. Prof.
Gupta, R. C., MSc	Asst. Prof.
Saxena, M. C., PhD <i>S' ton.</i> , MSc	Asst. Prof.
Sharma, C. B., MSc DPhil	Asst. Prof.
Lal, K. C., MSc	Asst. Prof.
Tandon, R. K., MSc	Asst. Prof.
Joshi, B. N., MSc	Asst. Prof.
Varma, A. S., MSc PhD	Asst. Prof.
Sah, J. P., MSc	Asst. Prof.
Dutta, S. N., MSc	Asst. Prof.
Madan, M. P., MSc PhD	Asst. Prof.
Singh, J. N., MSc	Asst. Prof.
Pandya, T. P., MSc	Asst. Prof.
Bhattacharya, S. R., MSc	Asst. Prof.
Srivastava, R. C., MSc PhD	Asst. Prof.
Bhattacharya, S. R., MSc	Asst. Prof.
Vyas, A., MSc	Temp. Asst. Prof.

### Political Science

Dhawan, G. N., MA <i>Agra &amp; Luck.</i> , LLB PhD	Offg. Prof.
---	-------------

Masaldan, P. N., MA PhD	Asst. Prof.	Ahmad, M. R., MSW	Temp. Asst. Prof.
Loomba, A. L., MA	Asst. Prof.	Chandra, N., MSW	Temp. Asst. Prof.
Das, R. B., MA PhD	Asst. Prof.	Shukla, V. N., MSW	Temp. Asst. Prof.
Sharma, I. D., MA PhD DLitt			
(on leave)	Asst. Prof.		
Chowdhury, I. P., MA PhD	Asst. Prof.		
Singh, R., MA	Asst. Prof.		
Sharma, J. C., MA PhD	Asst. Prof.		
Singh, D. P., MA PhD	Asst. Prof.		
Misra, K. P., MA PhD	Asst. Prof.		
Rora, Miss Uma, MA PhD DPA			
	Temp. Asst. Prof.		
Thakur, L. D., MA PhD	Temp. Asst. Prof.		
Awasthi, R. N., MA PhD	Temp. Asst. Prof.		

**Russian**, see Mod. European Langs.

### Sanskrit and Prakrit Languages

Singh, S. V., MA PhD	Prof.		
Banerjee, A. C., MA PhD Lond.	Asst. Prof.		
Rastogi, M. L., MA	Asst. Prof.		
Trivedi, M. D., MA PhD	Asst. Prof.		
Misra, S. S., MA PhD	Asst. Prof.		
Patni, Mrs. Binapani, MA PhD	Asst. Prof.		
Sinha, J. P., MA	Temp. Asst. Prof.		
Mishra, M., MA PhD	Temp. Asst. Prof.		
Dikshit, A. K., MA	Temp. Asst. Prof.		

**Sociology and Social Work**, see also Econ. and Sociol.

Mukerji, R. K., MA PhD	Dir.		
Chandra, S., MA LLB	Asst. Prof.		
Hasan, Z. H., MS DSW Col., BA LLB			
DSS	Asst. Prof.		
Garg, Mrs. Sarla, MA PhD	Asst. Prof.		
Sharma, S. R., MA LLB	Asst. Prof.		
Saran, A. K., MA	Asst. Prof.		
Nagendra, S. P., MA	Asst. Prof.		
Singh, K. K., MA Calif.	Asst. Prof.		
Bose, A. B., MSW	Asst. Prof.		
Khinduka, S. K., MSW	Asst. Prof.		
Madan, G. R., MA PhD	Temp. Asst. Prof.		
Varma, S. C., MA PhD	Temp. Asst. Prof.		
Mehrotra, G. N., MA	Temp. Asst. Prof.		

**Urdu**, see Persian and Urdu

### Zoology

Lal, M. B., DSc Edin. & Luck.	Prof.		
Das, S. M., DSc	Asst. Prof.		
Gupta, P. D., MSc PhD	Asst. Prof.		
Rakshpal, R., MSc PhD	Asst. Prof.		
Tandon, B. K., MSc PhD Manc.	Asst. Prof.		
Singh, S., MSc PhD	Asst. Prof.		
Premvati, Mrs., MSc PhD	Asst. Prof.		
Tewari, H. B., MSc DPhil Alld.	Asst. Prof.		
Gupta, S. P., MSc PhD	Asst. Prof.		
Baugh, S. C., MSc PhD	Asst. Prof.		
Tandon, R. S., MSc PhD	Temp. Asst. Prof.		
Srivastava, S. C., MSc PhD	Temp. Asst. Prof.		
Srivastava, R. P., MSc PhD	Temp. Asst. Prof.		
Johri, S. N., MSc PhD	Temp. Asst. Prof.		
Srivastava, P. N., MSc PhD	Temp. Asst. Prof.		
Srivastava, K. P., MSc PhD	Temp. Asst. Prof.		

## ORIENTAL DEPARTMENT

### Arabic and Persian

Naqvi, S. A. N., Fazil-i-Adab Sadrul-Afazil			
Mumtazul-Afazil	(on leave)	Asst. Prof.	
Naseer, S. M.		Asst. Prof.	
Naqvi, S. A.		Temp. Asst. Prof.	

### Sanskrit

Awasthi, R. P.	Asst. Prof.		
Jha, A.	Asst. Prof.		
Trivedi, A. P., MA	Temp. Asst. Prof.		

## GANESH SHANKER VIDYARATHI MEMORIAL MEDICAL COLLEGE, KANPUR

*Principal*—C. B. Singh, MB, FRCS

### Anatomy

Singh, K. B., PhD Edin., MB MS, FRAI	Prof., Hd. of Dept.		
Kacker, G. N., MB MS	Reader		
Mathur, M. M., MB MS	Lectr.		
Shukla, A. P., MB BS	Lectr.		
Jain, P. S., MB BS	Lectr.		

### Dentistry

Pradhan, A. C., BSc BDS	Lectr.		
-------------------------	--------	--	--

### Ear, Nose and Throat

Sinha, S. N. S., MB MS	Lectr.		
------------------------	--------	--	--

### Forensic Medicine

Parmanand, MB BS	†Prof.		
------------------	--------	--	--

### Hygiene

Kapoor, S. D., MB BS DTM DPH	†Prof.		
------------------------------	--------	--	--

### Medicine

Gour, K. N., MD, FRCPEd, FRFPGlas	Prof., Hd. of Dept.		
Agarwal, B. L., MB BS, MRCP	Reader		
Jain, S. C., MD, MRCP, MRCPEd	Reader		
Srivastava, J. R., MD	(Pædiatrics) Reader		
Sikka, K. K., MD	Lectr.		



Paul, D., MD Lectr.  
 Misra, R. N., MD Lectr.  
 Vajpeyi, G. N., MD Lectr.  
 (Skin & Venereal Dis.) Lectr.

### Obstetrics and Gynaecology

Bai, Miss Sunanda, MD BS Reader, Hd. of Dept.  
 Vaish, Miss Rama, MS Lectr.  
 . . . . . Lectr.

### Ophthalmology

Singh, R. T., DOMS *Lond.*, MB MS, FRCSEd Reader, Hd. of Dept.  
 Raizada, I. N.

### Orthopaedics

Gupta, A. K., MChOrth *Liv.*, MB MS, FRCS Reader, Hd. of Dept.  
 Gupta, Y. N., MB MS Lectr.  
 Nand, S., MB MS Lectr.

### Pathology

Tiyagi, G. K., MD BS Prof., Hd. of Dept.  
 Samual, K. C., MD BS Reader  
 Navani, Miss Hari, MD BS Lectr.  
 Rajvanshi, V. S., MB BS Lectr.

### Pharmacology and Therapeutics

. . . . . Prof.  
 Misra, S. S., MD BS Lectr., Offg. Hd. of Dept.

### Physiology

Kapoor, S. R., MD BS Prof., Hd. of Dept.  
 Sur, B. K., MSc PhD (Biochem.) Reader  
 Bhatnagar, V. M., MD BS Lectr.  
 Saxena, J. P., MD BS Lectr.  
 Rai, U. C., MB BS Lectr.  
 Lectr.

### Radiology

Saxena, O. N., DMRT *Liv.*, MB BS DMRE Reader, Hd. of Dept.  
 Agarwal, Miss Sharda, MB BS DMRE Lectr.

### Surgery

Singh, C. B., MB, FRCS Prof., Hd. of Dept.  
 Das, P., MB MS, FRCS, FACS (Clin. S.) Prof.  
 Krishna, G., MB BS, FRCS Reader  
 Gupta, M. N., MB MS Reader  
 Gupta, R. L., MB BS, FRCSEd Reader  
 Bhatnagar, K. K., MB BS, FRCS Lectr.  
 Sharma, M. C., MB MS Lectr.  
 Khan, M. A., MB MS Lectr.  
 . . . . . Lectr.

## ISABELLA THOBURN COLLEGE (Women)

*Principal*—Miss E. M. Thallayapalam, MA MSc PhD

### Chemistry

Wallace, Miss W., BA *Minn.*, AM *Col.*, PhD Reader  
 Verma, Miss Sharda K., MSc Lectr.  
 David, Josephine, MSc Lectr.  
 Belson, Primrose, MSc Lectr.

### Economics and Sociology

Misra, Miss K., MA Lectr.

### Education

Wilson, Miss M. D., MEd *Patna*, BA DT Reader  
 Roy, Miss B., AM EdD *Harv.* Reader  
 Bale, Mrs. Marie F., MA PhD Temp. Reader  
 Paul, Miss B. C., MEd Lectr.

### English

Dimmitt, Miss M. A., BA *DePauw*, MA *Wellesley* Reader  
 Sommerville, Miss M., MA PhD *New Mexico* Lectr.  
 Shukla, Miss V., MA Lectr.  
 Qamber, Miss A., MA Lectr.  
 Adiseshiah, Miss S., MA Lectr.

### Hindi

Bhatnagar, Mrs. Hem, MA Lectr.

### History

Johnson, Miss S. E., AM *Col.* Reader  
 Sahney, Miss Vimla, MA Lectr.

### Mathematics

Chandapillai, Miss A., MA LT PhD Lectr.  
 Harris, Barbara, MA Lectr.

### Persian and Urdu

Lectr.

### Philosophy

Williams, Miss L. V., MA *Ohio* Lectr.  
 Shukla, Miss M., MA DT Lectr.  
 Kumar, Miss U., MA Lectr.  
 Shipstone, Miss E., BA Lectr.  
 Berry, Miss E., MA Lectr.

### Physics

Zutshi, M. N., MSc LT Lectr.

### Political Science

Wanchoo, Miss V., MA Lectr.

**Sanskrit and Prakrit Languages**

Urdu, see Persian and Urdu

Lectr.

**Zoology**

Mathew, Miss A., MA  
Dutt, Norcen, MSc

Lectr.  
Lectr.

Sociology, see Econ.

**JUBILEE GIRLS' COLLEGE**

*Principal*—Miss B. Datta, BA Teacher's Cert Lond.

*Vice-Principal*—Miss S. Choudhury, MA BT

Roy, Mrs. Lalita S.  
Kapoor, Mrs. Padma  
Banerji, Miss Nalina

Lectr. Das, Miss Bibha, MA BT  
Lectr. Bagchi, Ruby, MA  
Lectr. Roy, Miss Kamla R., MA MEd

†Lectr.  
†Lectr.  
Lectr.

**KANYA KUBJA COLLEGE**

*Principal*—M. G. Misra, MSc BT

**Botany and Geology**

**Geology**, see Bot. and Geol.

Majumdar, S. S., MSc LT  
Bhatnagar, S. P., MSc

Lectr.  
Lectr.

**Mathematics**

Dikshit, K. L., MA  
Nigam, R. C., MSc

Lectr.  
Lectr.

**Chemistry**

Misra, M. G., MSc BT  
Chaturvedi, I. R., MSc  
Dikshit, R. C., MSc  
Varma, I. D., MSc

Lectr.  
Lectr.  
Lectr.  
Lectr.

**Physics**

Pandey, S. K., MSc BT  
Vaish, K. N., MSc LT

Lectr.  
Lectr.

**English**

Chatterji, N. C., MA  
Shukla, B. L., MA

Lectr.  
Lectr.

**Zoology**

Misra, V. R., MSc  
Srivastava, R. P., MSc

Lectr.  
Lectr.

**KANYA KUBJA VOCATIONAL COLLEGE**

*Principal*—J. G. Misra, MA LT

Misra, J. G., MA LT  
Misra, R. N., MA LT  
Misra, Ganga Sarma, MA BT  
Thakur, L. D., MA  
Misra, R. K., BCom MA

Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

Shukla, G. S., MA LT  
Tewari, R. C., MA  
Sinha, J. P., MA  
Bajpai, J. N., MA Sahityaratna

†Lectr.  
†Lectr.  
†Lectr.  
Lectr.

**KARAMAT HUSAIN MUSLIM GIRLS' COLLEGE**

*Principal*—Miss Roshan Jahan Begam, MA

**Economics and Sociology**

Salim, Mrs. Hamida, MA BT

Lectr.

**History**

Naqvi, Mrs. Hamida, MA

Lectr.

**Persian and Urdu**

Zaheer, Mrs. Sajjad R., MA

Lectr.

**English**

Afridi, Miss Wasim-un-Nisa

Lectr.

**Philosophy**

Lectr.

## KING GEORGE'S MEDICAL COLLEGE

(Telephone : 2202)

Principal—Professor B. B. Bhatia, MD BS, FRCP

**Anatomy**

Narayan, D., MB MS  
 Varma, H. C., MB MS  
 Das, A. C., MB MS  
 Dube, N., MB MS  
 Bhatnagar, B. N. S., MB MS  
 Jha, M. R., MB MS  
 5 Sr. and 2 Jr. Demrs.

Prof.  
 Reader  
 Lectr.  
 Temp. Lectr.  
 Lectr.  
 Lectr.

Gupta, N. N., MD  
 Kunwar, K. B., MD  
 (Pathol., Med. & Pharm.) Reader  
 Chakravarty, S. N., MD  
 Nath, K., MD  
 The Supt., Mental Hosp., Agra  
 Teacher in Mental Diseases  
 Tandon, O. P., MD  
 Sharma, N. L., DTM DPH Calc.,  
 DCH Lond., MB BS (Pædiatrics) Reader  
 Gupta, R. N., MB BS (Dermatol.) Lectr.  
 Wig, N. N., MD BS (Neuropsychiatry) †Lectr.  
 Rastogi, V. S., MB BS  
 (Neuropsychiatry) Temp. Lectr.  
 Bajpai, P. C., MRCPed (Pædiatrics) Lectr.  
 Bhatia, K. B., MD BS  
 Singh, B. N., MD  
 Dikshit, S. K., MD  
 †Lectr.

**Ayurvedic**

Shukla, G. D., MA MS Sahityacharya  
 Principal, Ayurvedic Section  
 Shukla, S. D., MA MS Sahityacharya Reader  
 Chaudhary, K. R., FRCS (Surg.) Reader  
 Sharma, D. N., MD (Med.) Reader  
 Hansraj, MB BS (Ophthalmol.) Reader  
 Mendonca, Miss B., MD (Obstet.) Reader  
 Misra, N. B., MB MS (Anat.) Reader  
 Mittal, V. N., MD (Physiol.) Reader  
 Singh, R. S., BA Lectr.  
 Battacharji, P. K., MB BS Lectr.  
 Shastri, B. D., Ayurvedacharya Lectr.  
 Tripathi, R. P., BA MS Ayurvedacharya Lectr.  
 Govil, K. K., DPH DTM Lectr.  
 Sharma, A. D., MA Ayurvedalankar Lectr.  
 Tewari, C. M., MB BS DCP Lectr.  
 Swaroop, G., MB BS DCP Lectr.  
 Sharma, V. K., BA Lectr.  
 Sharma, Miss Radha, MB BS Lectr.  
 Sarkhyadhar, S. C., MA Shahityaratna  
 Shastri Lectr.  
 Arora, K. L., MB BS Lectr.  
 Sharma, K. D., MB BS Lectr.  
 Saxena, R. K. Lectr.  
 3 Demrs.

**Dentistry**

Chawla, T. N., BSc BDS Panj., MS Prof.  
 Chaudhry, K. P., BDS Panj. Reader  
 Gupta, H. D. Lectr.  
 Nanda, R. S., BDS Bom., PhD Lectr.  
 Das Gupta, M., LMP LDSc Hon. Lectr.  
 Roy, R. K., BDS Lectr.  
 Bhargava, K., BDS MS Lectr.  
 4 Sr. Demrs., 1 Hon. Demr., 1 Anaesthetist†

**Diseases of Ear, Nose and Throat**

Misra, R. N., MB MS DLO Prof.  
 Bhatia, M. L., MB BS DLO Lectr.  
 Gupta, O. P., MB MS Temp. Lectr.

**Forensic Medicine**

Khan, M. U., DTM DOMS DO Oxon. †Prof.  
 Chandra, J., MD BS DMRE Lectr.

**Medicine**

Bhatia, B. B., MD, FRCP Prof.  
 Misra, S. S., MD, FRCP Prof.

**Obstetrics and Gynæcology**

Engineer, Miss A. D., MD, FRCOG, FRCS Prof.  
 Kuttly, Miss Devaki, MB BS Lond. Reader  
 Mukerji, Miss M., MD Temp. Reader  
 Varma, Miss Leela, MS Temp. Lectr.  
 Mehra, Mrs. Prabha, MB MS Temp. Lectr.

**Ophthalmology**

Gupta, S. P., DOMS Lond., MB, FRCSEd Prof.  
 Khanna, Capt. V. N., MB BS DTM DO  
 DOMS Reader  
 Mehra, M. K., MB BS DO Lond. Reader  
 Garg, K. C., MB BS DO Lond., FRCSEd  
 Temp. Lectr.

**Orthopædics**

Sinha, B. N., MB BS, FRCS Prof.  
 Goel, M. K., MB MS Lectr.  
 Srivastava, A. N. S., MB MS Offg. Lectr.

**Pathology**

..... Prof.  
 Gupta, S. P., BSc Ban., MD DipBact Lond. Reader  
 Gupta, N. P., MD DipBact Lond. Reader  
 Mehrotra, R. M. L., MD Temp. Reader  
 Wahal, K. M., MD DSc Lectr.  
 Kumar, A., MSc DPhil Lectr.  
 Kumar, S., MS (Hæmatol.) Lectr.  
 Paul, Miss Sharda D., MD BS Temp. Lectr.  
 1 Sr. Demr., 4 Jr. Demrs.

**Pharmacology**

Guiral, M. L., MB BS Prof.  
 Bhargava, K. P., MD Reader  
 Sareen, K., MSc PhD Zür. Temp. Reader  
 Saxena, P. N., MD (on leave) Lectr.  
 Dhawan, B. N., MD BS Temp. Lectr.

# LUCKNOW

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Kohli, R. P., MD	Lectr.	Bahadury, T., DPH MPH	†Reader
Gupta, G. P., MB BS	Temp. Lectr.	Jain, P. C., MSc	Lectr.
2 Sr. Demrs., 2 Jr. Demrs., 1 Pharmaceutical Chemist		Bagchi, S. C., MB MS DPH	Lectr.
		Bahadur, P., MB BS	Sr. Demr.
		Zaheer, M., MB BS	Sr. Demr.

## Physiology

Shukla, R. C., MD	Prof.
Malaviya, B. K., MSc DPhil <i>Alla.</i>	Reader
Kapoor, S. R., MD	Reader
Prasad, J., MD MS	Temp. Reader
Tandon, G. S., MD BS	Offg. Lectr.
Garg, S. K., MD BS	Temp. Lectr.
Agarwal, H. C., MD	Temp. Lectr.
Khanra, D. N., MB BS	Temp. Lectr.
4 Sr. Demrs., 2 Jr. Demrs.	

## Radiology

Lal, B., DMRT <i>Liv.</i> , MD DMRE	Prof.
(Radio-Therapy)	Lectr.
Kumar, A., MB BS DMRE	†Lectr.
Agarwal, S. K., MSc (Radio-Phys.)	†Lectr.

## Social and Preventive Medicine

Prasad, B. G., MD DPH DTM	†Prof.
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## Surgery

Misra, S. C., MB BS, FRCS	Prof.
Singh, R. V., MB MS, FRCS (Clin. Surg.)	Prof.
Das, P., MS, FRCS	Reader
Chandra, T., MS, FRCS	Reader
Sharma, R. N., MB MS, FRCS	Reader
Charan, A., MB MS	Reader
Gupta, R. N., MB BS (Venereal Dis.)	†Lectr.
Dubey, P. C., MS, FRCS, FRCSEd, FRFSGlas	Temp. Lectr.
Agarwal, G. P., MB BS	Temp. Lectr.
Agarwal, K. C., DA <i>Bom.</i>	†Lectr.

## Tuberculosis

Mathur, J. B. L., MD	Prof.
Khanra, B. K., MD BS	Lectr.
	Temp. Lectr.

## LUCKNOW CHRISTIAN COLLEGE

*Principal*—C. M. Thacore, MA PhD LLD TDip

## Botany

Nigam, M. P., MSc	Lectr.
Bhakey, G. N., MSc LLB	Lectr.

## Chemistry

Chowfin, E. H., MSc LT	Lectr.
Sinha, A. K., MSc	Lectr.
Morrison, J. I., MSc	Lectr.
Lal, D. D., MSc	Lectr.

## English

Thacore, C. M., MA PhD LLD TDip	Lectr.
---------------------------------	--------

Appasamy, K., MA BD	Lectr.
Jordan, I. A., MA	Lectr.

## Mathematics and Statistics

Srinastava, R. S. L., MSc	Lectr.
Tewarson, R. P., MSc	Lectr.

## Physics

Mundle, N. K., MSc PhD	Lectr.
------------------------	--------

## Zoology

Jordan, E. L., MSc <i>Alla.</i> , MA <i>Tor.</i>	Lectr.
Nigam, H. C., MSc	Lectr.

## MAHILA VIDYALAYA COLLEGE (Women)

*Principal*—Miss Kanchanlata Sabarwal, MA *Patna*, PhD

## Economics and Sociology

Vargese, Mrs. S., MA	Teacher
----------------------	---------

## Education

Chaturvedi, Miss V., MA MED LT	Lectr.
Bisarya, Miss Saroj, MA MED	Lectr.
Rani, S. M., MA MED	Lectr.
Khayanchand, Miss Leela, MA MED	Lectr.
Vidyarati, Mrs. Bimla, MA MED	Lectr.
Srivastava, Miss Malti, BT	Temp. Lectr.
Srivastava, Mrs. S., MA BT	†Lectr.

## English

Dutta, Mrs. S., MA DT	Lectr.
Vyas, Manorama, MA	Lectr.
Dutt, Mrs. S., MA DT	Lectr.

## Hindi

Srivastava, Miss R. K., MA	Lectr.
Singh, Miss R., MA LLB	Lectr.

## History

Srivastava, Mrs. Rameshwari D., MA MED	Lectr.
Sinha, Mrs. C., MA	Lectr.

**Mathematics and Statistics**

Bajpai, Miss Saraswati, MA LT

**Philosophy**

Lal, Miss Priti K., MA BT

**Sanskrit and Prakrit Language**Lectr. Tiwari, Mrs. Pratibha, MA  
Sinha, Mrs. Chandra M., MALectr.  
Lectr.Lectr. **Sociology**, see Econ. and Sociol.**SHIA COLLEGE***Principal*—S. A. A. Zaidi, MA LT**Botany and Geology**Vaish, S. S., MSc  
Singh, A., MScLectr.  
Lectr.**Mathematics**Saran, S., MSc  
.....Lectr.  
Lectr.**Chemistry**Mathur, J. P., MSc  
Dutt, T., MSc  
Naqvi, A. D., MScLectr.  
Lectr.  
Lectr.**Physics**Husain, I., MSc  
Srivastava, R. C., MScLectr.  
Lectr.**Zoology**Srinastava, N. N., MSc  
Johri, G. N., MScLectr.  
Lectr.**ADMINISTRATIVE AND OTHER STAFF****ASST. REGISTRARS.** S. Shankar, BA; A. K. Raizada, BA (Accounts); P. C. Mital, MA.**JUBILEE GIRLS' COLLEGE.** Vice-Principal, ..... Warden, ..... Med. Officer, .....**ASST. PROCTORS.** Arts: M. D. Joshi, MA DLitt; S. S. Misra, MA PhD; A. A. Khan, Khalil MA; B. N. Srivastava, MA; K. Jamil-uddin, MA PhD. Science: S. C. Agarwal, MSc PhD; S. N. Singh, MSc. Medicine: K. P. Chaudhary, LDS RCS. Law: L. N. Tandon, MA LL.M. Commerce: G. L. Hajela, MA LLB PhD. Women Students: Mrs. Sarla Garg, MA PhD.**KANYA KUBJA COLLEGE.** Vice-Principal, N. C. Chatterji, MA. Warden, L. S. Misra, MA. Med. Officer, .....**KANYA KUBJA VOCATIONAL COLLEGE.** Vice-Principal & Warden, Gouri Shaiker Misra, MA LLB. Med. Officer, K. N. Tandon, MB BS.**SR. N.C.C. OFFICER.** Capt. G. Dutt.**KARAMAT HUSAIN MUSLIM GIRLS' COLLEGE.** Warden, ..... Med. Officer, T. Chand, MB BS.**GANDHI MEMORIAL AND ASSOCIATED HOSPS.** Supt., R. C. Srivastava, MB BS.**KING GEORGE'S MEDICAL COLLEGE.** Provosts: Prof. R. V. Singh (Chakravarti Hall); H. C. Verma, MS (on leave) (Gokaran Nath Misra Hall); N. N. Gupta, MD (Sardar Patel Hall); Miss A. D. Engineer, MD, FRCOG, FRCS (Vijaya Lakshmi Hall).**CANNING COLLEGE.** Provosts: V. N. Shukla, BA LL.M PhD Lond. (Butler Hall); P. N. Sharma, DSc (Subhas Hall); G. S. Varma, PhD, FLS (Tilak Hall); K. C. Sarkar, MA PhD (Mahmudabad Hall); H. K. Awasthi, MA (Habibullah Hall); R. Mohan, MA PhD Leeds (Narendra Deva Hall); R. B. Das, MA PhD (Balrampur Hall); Mrs. P. Shukla, MA BT (Kailash Hall). Med. Officer, B. N. Mehrotra, MB BS. Resident Med. Officer, V. Sharma, MB BS.**LUCKNOW CHRISTIAN COLLEGE.** Wardens: E. H. Chowfin, MSc LT (C.L. Bare Hostel); C. S. Franklin, MA LLB (O.C. Hostel). Med. Officer, .....**MAHILA VIDYALAYA COLLEGE.** Warden, ..... Med. Officer, Mrs. P. Arora, MB BS.**ISABELLA THOBURN COLLEGE.** Vice-Principal, Miss M. Sommerville, MA PhD *New Mexico*. Chief Warden, Miss A. Chandapillai, MSc PhD. Med. Officer, Miss M. Fox**SHIA COLLEGE.** Vice-Principal, ..... Warden, N. H. Alley, MA LLB. Med. Officer, .....**VIDYANT HINDU COLLEGE.** Vice-Principal, G. L. Dixit, MA BT. Med. Officer, .....

## GENERAL INFORMATION

This residential and teaching univ. was establd. under an act of the provincial legislature passed in Nov. 1920. The authorities of the univ. include a court, executive council, academic council, cttee. of reference and facs.

**FACULTIES AND DEANS.** *Arts*, Prof. A. V. Rao (Engl.); *comm.*, Prof. K. C. Sarkar; *law*, Dr. V. N. Shukla; *med.*, Principal C. B. Singh; *med. (anc. & mod.)*, S. D. Shukla (Ayurvedic); *sci.*, Prof. M. B. Lal (zool.).

**LIBRARY.** 183,743 vols. (including King George's Med. Coll. and Bonarjee library).

**ADMISSION.** Qualifs. for degree courses : arts or sci.—inter. exam. of an Indian univ. or of the bd. of high school and inter. educn., U.P., or of Rajputana (incl. Ajmer-Merwara), Central India and Gwalior, or of the bd. of inter. and sec. educn., Dacca; the exam. conducted by the bd. of sec. educn., U.S. of Madhya Bharat; the pre-medical exam. of Delhi univ., the pre-engin. exam. conducted by the pre-engin. exam. bd., the Cambridge higher sch. cert. exam., previous exam. of Camb. Univ., responsions of Oxford Univ. *Law*—degree in arts, sci. or comm. *Comm.*—commercial dipl. of the Panjab Univ., or the inter exam. in comm. of the bd. of high sch. and inter. educn., U.P., or of Rajputana (incl. Ajmer-Merwara), Central India and Gwalior, or the inter. exam. in arts (group B—special) of Delhi Univ. or inter. exam. in group E of the bd. of inter. and sec. educn., Dacca; the inter. exam. of Andhra Univ., in 3 commercial subsjs.; inter. or BA exam. of any recognized univ., with econ.; pt. 1 of the assoc. exam. of the Indian Inst. of Bankers after passing inter. exam.; all-India sr. dipl. exam. of the all-India bd. of commercial studies, Delhi. *Med.*—degree in sci. of Agra, Alig., Alld., Ban., Bom., Calc., Dacca, Delhi, Madr., Mys., Nag., Panj., Panj. (I.), Patna or Rangoon taken with chem. and biol. as optional subsj. or, subject to certain conditions, the inter. exam. of Alig., Ban., Panj., Panj. (I.), Raj., Nag., Saug., Bom., Patna, Karn., Delhi, inter. bd. of educn., U.P., or the exam. conducted by the bd. of sec. educn., U.S. of Madhya Bharat; BSc exam. of the Univ. of S. Africa.

The usual **LANGUAGES OF INSTRUCTION** are Hindi and English.

**FIRST DEGREES.** 2 yrs.—BA pass, BSc pass, BCom; 3 yrs.—BA hons., BSc hons.; 4 yrs. (for med. grads., 2 yrs.)—BDS; 5 yrs.—MB BS, BM BS (in Ayurvedic med.). Lectures are supplemented by tutorial work.

**HIGHER DEGREES.** 1 yr.—BEd, MA (after BA hons.), MSc (after BSc hons.), MSW, MED (after BEd); 2 yrs.—LLB, MA, MSc, MCom, MEd, LLM (after LLB), PhD (in arts, sci., comm., by res.); 3 yrs. after MB BS—MD, MS; 3 yrs. after LLM—LLD; 5 yrs. after PhD—DLitt, DSc. The LLD, DLitt, DSc may also be conferred as honorary degrees.

**DIPLOMAS.** French, German, Russian, Arabic, Persian, Sansk., Bengali, Marathi, Tamil : 2 yrs. each. Pub. admin. : 2 yrs. for undergrads. and 1 yr. for grads. Foreign affairs & diplomacy, phys. educn., educnl. psychol., appl. anthropol., psychol., med. radiol. & electricity, laryngol. & otol., gynæcol. & obstet., teaching, Arabic, Persian, Sansk., military sci., tuberculosis dis., ophthalmic med. & surg., clin. pathol., orthopæd. surg. : 1 yr. each.

**CERTIFICATES.** Certs. of proficiency in French, German, Russian, Arabic, Persian, Sansk., Bengali, Marathi, Tamil : 1 yr. each.

**ORIENTAL TITLES.** Fazil-i-Adab, Fazil-i-Tafsir (in Arabic); Dabir-i-Kamil, Dabir-i-Mahir (in Persian); Acharya, Shastri (in Sanskrit); each 2 yrs.

**FEES** for tuition per session : BA pass and hons., or BCom, Rs. 144; MA, MCom or LLM, Rs. 180; MB BS, Rs. 200; BDS, Rs. 300, and BM BS, Rs. 200; dipls. in med. radiol. & electricity, laryngol. & otol., gynæcol. & obstet., tuberculosis dis. and orthopæd. surg., Rs. 400 for med. grads. from colls. other than Lucknow, Rs. 300 for med. grads. from King George's Med. Coll., Lucknow; BSc pass and hons., or MEd, Rs. 180 (geol., Rs. 255); MSc, Rs. 216 (maths., Rs. 180; geol., Rs. 291); LLB, Rs. 180; DSc, Rs. 270; PhD, Rs. 180 (Rs. 270 if work involves use of labs.); LT, Rs. 162; dipl. in military sci., Rs. 18; dipl. in psychol., Rs. 72; dipl. in pub. admin., Rs. 96; dipl. in foreign affairs & diplomacy, Rs. 216; dipl. in French or German or Russian, Rs. 60 for students already on univ. registers and Rs. 120 for others; cert. of proficiency in French or German or Russian, Rs. 48; DOMS, Rs. 300; DCP, Rs. 150.

**ACADEMIC YEAR.** Mid-July to end April, 3 terms. Term dates (approx.): July 16 to Oct. 11; Oct. 27 to Dec. 24; Jan. 8 to April 30.

**RESIDENCE.** Students are required, unless specially exempted, to live in hostels attached to King George's Med. Coll., Canning Coll., Lucknow Christian Coll., Kanya Kubja Coll., Kanya Kubja Vocational Coll., D.A.V. Coll., Vidyant Hindu Coll. and Shia Coll. for men; Isabella Thoburn Coll., Mahila Vidyalyaya Coll., Karamat Husain Muslim Girls' Coll. and Jubilee Girls' Coll. for women. There are also univ. halls for women students attached to Canning Coll. and King George's Med. Coll. **Fees:** for men—Rs. 90 to Rs. 135 per session, according to room; for women—Rs. 67.8 to Rs. 90 per session, according to room. For provosts and wardens, see 'Admin. and Other Staff', above.

**PUBLICATIONS.** *Calendar* (alternate yrs., Rs. 10); *Prospectus* (annual, Rs. 7); *Annual Report* (free); *Quinquennial Report of Research Work* (free); *Lucknow Univ. Studies*; *Radha Kumud Mookerji Endowment Lectures*.

## THE YEAR 1959

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	10,621	—
Women . . .	2,589	—
Total	13,210	

Distribution by Faculties. *Arts* (incl. educn.), 6608; *comm.*, 1033; *law*, 1448; *med.*, 1721; *sci.*, 2400. Total : 13,210.

DEGREES AWARDED (1959-60). DLitt (arts), 2; PhD, 48; MD, 37; MS, 30; MA, 571; MSc 146; MCom, 91; MEd, 12; LL.B, 411; BA (hons.), 10; BSc (hons.), 13; MB BS, 146; BEd, 140; BA (pass), 1150; BSc (pass), 410; BCom, 174; MSW, 43; BDS, 11.

DIPLOMAS AWARDED (1959-60). DPA, 18; DFA, 1; German, 3; French, 5; Russian, 10; Arabic : Fazil-i-Adab, 6; Alim, 2; Fazil-i-Tafsir, 6. Persian : Dabir-i-Kamil, 3. Sanskrit Acharya, 8; Shastri, 6. Phys. educn., 19; DOrthS, 4; DOMS, 2; DMRE, 1; DCP, 1; DGO, 2.

# UNIVERSITY OF MADRAS\*

Founded 1857

*Postal Address* : University Buildings, Chepauk, Triplicane P.O., Madras 5, India

*Cables and Telegrams* : University, Madras

*Telephones* : Madras 86914, 86822

CHANCELLOR—THE GOVERNOR OF MADRAS STATE (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF MADRAS STATE (*ex officio*)

VICE-CHANCELLOR—SIR A. LAKSHMANASWAMI MUDALIAR, DCL *Oxon.*, Hon. LL.D *McG.*, BA MD  
LL.D DSc, FRCOG, FACS

REGISTRAR—R. R. VARMA, MA *Lond.*

DEPUTY REGISTRAR—RAO SAHIB CAPT. D. S. MUDALIAR

LIBRARIAN—V. S. MUTHIAH, AMLS *Mich.*, MA LT

## UNIVERSITY TEACHING AND RESEARCH STAFF

[†=Part-Time]

### Anthropology

Ehrenfels, Baron U. R., PhD *Vienna*  
Gopalakrishnan, M. S., MA MLitt

Prof.  
Lectr.

Lobo, L. C., MA PhD *Lond.*

(Org. C.) Temp. Lectr.

Thyagarajan, B. S., MSc PhD  
Ramadas Rao, U., BSc PhD

Lectr.  
Lectr.

### Archæology

Mahalingam, T. V., MA DLitt  
Krishnamurthy, C., MA

Prof.  
Lectr.

### Commerce

Mudaliar, P. D. S., BA  
Ramadas, R., BCom

†Prof.  
Reader

### Biochemistry

Shanmugasundaram, E. R. B., BSc  
Narasimhamurthi, M. A., MSc

Reader  
Lectr.

### Co-operative Banking and Agricultural Finance

Sivamaggi, MA PhD

Reader

### Botany

Sadasivan, T. S., DSc PhD *Lond.*  
Desikachari, T. V., MA MSc PhD  
Devi, Miss Saraswati, BSc PhD  
Kalyanasundaram, R., MA PhD  
Subramanian, D., PhD

Prof.  
Reader  
Reader  
Lectr.  
Lectr.

### Geography

Kuriyan, G., BA BSc PhD *Lond.*  
Misra, S. D., MA *Lond.*

Prof.  
Lectr.

### Geology

Jagapathy Naidu, P. R., MSc DPhil *Basle*  
Leelananda Rao, N., MSc PhD  
Rajasekaran, K. C., MSc

Prof.  
Reader  
Lectr.

### Business Administration

Krishna Rao, G. V., MBA *Col.*, MA BL  
Sivagnanam, R. V. R., MBA BCom BL

Prof.  
Reader

### Chemistry

Santhappa, M., BA *Manc.*, PhD *Manc. & Lond.* (at Madurai Centre) Prof.  
Lakshminarayanaiah, N., DIC, MSc PhD (Phys. C.) Reader  
Swaminathan, S., BSc PhD *Ill.* (Org. C.) Reader

Arumugam, N., BSc PhD (at Madurai Centre) Reader  
Ganesan, R., MA PhD (Phys. C.) Lectr.

### Indian Economics

Balakrishna, R., MA PhD *Lond.* Prof.  
Bright Singh, D., MA PhD (at Madurai Centre) Prof.  
Krishna Rao, B., BA MLitt Lectr.  
Gajalakshmi, M., MA MLitt Res. Asst., Lectr.

### Indian History

Kanakasabapathy Pillai, K., MA DLitt DPhil *Oxon.* Prof.  
Arokiyaswami, M., MA PhD Reader

\* Member of the Association of Universities of the British Commonwealth



Subramanian, N., MA PhD  
Ramachandran, C. E., MA

Lectr.  
Lectr.

### Indian Music

Sambamurti, P., BA BL  
Isaac, Miss Light, BA MLitt Res. Asst., Lectr.

Reader

### Indian Philosophy

Mahadevan, T. M. P., MA PhD  
Devasenapathi, V. A., MA PhD  
Sundaram, P. K., MA

Prof.  
Reader  
Lectr.

### Legal Studies

Alexandrowicz, C. H., LLD  
(Internat. & Constit. Law) Prof.

### Mathematics

Krishnan, V. S., MA DSc BT  
Venkataraman, M., MA PhD  
(at Madurai Centre) Prof.  
Balachandran, V. K., BA PhD  
Swaminathan, S., MA MSc PhD  
Venkataraman, R., MSc  
Ramabhadran, N., MSc  
Iqbalunnissa, Sry., BA

Prof.  
  
Reader  
Lectr.  
Lectr.  
Lectr.

### Physics

Ramachandran, G. N., MSc PhD *Camb.*,  
DSc  
Ramakrishnan, A., BSc PhD *Manc.*  
(at Madurai Centre) Prof.  
Chandrasekaran, K. S., MSc PhD  
Krishnamurthi, V. G., DSc *Andhra*  
(at Madurai Centre) Reader  
Katha, G., MSc PhD  
Mathews, P. N., MSc PhD  
Srinivasan, R., MSc  
Sasisekharan, V., MSc  
Raman, S., MSc PhD

Prof.  
  
Reader  
Reader  
Reader  
Lectr.  
Lectr.

### Politics and Public Administration

Bhaskaran, R., MA  
Arunachalaperumal, C., MA LLB  
Balachandran, G. V., MA  
Ramanathan, S., MA

Prof.  
Lectr.  
Res. Asst., Lectr.  
Lectr.

### Psychology

Boaz, G. D., MA DPhil *Oxon.*  
Shanmugham, T. E., MA MLitt  
Parameswaran, E. G., BA  
Farooqi, M. A., MA

Prof.  
Reader  
Reader  
Lectr.  
Res. Asst., Lectr.

### Statistics

Rajalakshman, D. V., MA MSc PhD *Manc.* Prof.  
Venkataraman, K. N., BA Lectr.

### Zoology

Gnanamuthu, C. P., MA DSc  
Krishnan, G., MA MSc PhD *Manc.*  
(at Madurai Centre) Prof.  
Krishnaswamy, S., MSc PhD  
Job, S. V., MA PhD  
Dorai Raj, B., MA MSc  
Ramalingam, K., MA PhD  
Vasu, B. S., BSc

Prof.  
  
Reader  
Reader  
Temp. Lectr.  
Lectr.  
Lectr.

## TECHNOLOGY

### Architecture

Desai, M. G., BA DipArchit, FRIBA Prof.  
Sajip, R. R. Reader  
Kukde, W. A., DipArchit Studio Asst.

### Chemical Engineering

Laddha, G. S., ChE PhD *Purdue*, BSc(Tech)  
MSc (Chem. Engin.) Dir  
Jayaraman, V. S., BE (General Engin.) Prof.  
Madhavan Nair, A. P., MA  
(Appl. Phys. Chem.) Prof.  
Janardhan, P. B., MA PhD  
Chennakesavan, B., BSc PhD  
(Chem. Engin.) Reader  
Ramanujam, V. V., MA MSc PhD  
Murugamanickam, P., BE  
(General Engin.) Reader  
Manickvachagam Pillai, T. K., BA LT Reader  
Subba Rao, M. G., BSc(Tech) Lectr.  
Subrahmanyam, V., MSc (Inorg. Chem.) Lectr.  
Arumugam, N., BSc PhD  
(Chem.) (at Madurai Centre) Reader  
Jagannadhaswamy, B., BSc(Tech) MSc  
(Indust. Chem.) Lectr.  
Chandrasekharan, K., BSc(Tech) MSc  
(Chem. Engin.) Lectr.  
..... (Electr. Engin.) Lectr.  
Devanathan, S., MSc (Phys.) Lectr.  
Kasthuri, K., BE  
(Surveying & Bldg. Centre) Lectr.

### Textile Technology

Krishnamurti, S., BSc BSc(Tech) Prof.  
Quraishi, R. A., BSc BSc(Tech) Reader  
Mavlankar, S. A., MS Reader  
Balakrishnan, O. K., BSc (Textile Chem.) Lectr.

## ORIENTAL RESEARCH INSTITUTE

(4 Sections—Sanskritic, Dravidian, Islamic, Hindi)

### Arabic, Persian and Urdu

Usha, A. H. S., BA (Persian) Reader  
Kokan, M. Y., MA (Urdu) Reader  
Haq, M. A., MA MLitt (Arabic) Lectr.

### Hindi

Naidu, S. S. R., MA PhD Reader

### Kannada

Mariappa Bhat, M., MA LT Prof.  
Shankar Kedilaya, A., MA BT Lectr.

### Malayalam

Krishnan Nayar, S., MA PhD Reader  
Ezhuthachan, K. N., MA Lectr.

**Sanskrit**

Raghavan, V., MA PhD  
Kunjunni Raja, K., MA PhD  
Subramania Sastri, S., BOL MA

Prof.  
Reader  
Reader

Purushothama Naidu, B. R., Vidvan  
Rajamanickam, N., MA MOL PhD  
Sanjivi, N., MA

Reader  
Reader  
Lectr.

**Tamil**

Sethu Pillai, R. P., BA BL DLitt  
Dorai Rangaswamy, M. A., MOL PhD  
(at Madurai Centre) Prof.

Prof.

**Telugu**

Venkata Rao, N., MA  
Ramakrishna Sastry, S., MA BOL

Reader  
Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar : P. S. Vaidyanathan, BA  
DCom. Sec., Students' Information Bureau :

G. Dharmarajan, MA Oxon. Med. Officer : C.  
Rajasckara Reddy, MS.

**CONSTITUENT POSTGRADUATE COLLEGES**

MADRAS, *Loyola College*, Madras 6 (tel. : 86894). (Recognized in postgrad. courses in Econ., Maths., Chem. and Comm.). Principal—Rev. L. Sundaram, BA ; Profs. and Lectrs. : 601.—Rev. S. J. Pallithanam, BSc ; R. Rama Rao, BA BSc BT. CHEM.—Rev. L. M. Yeddana-palle, MSc Calc., DSc Prin., PhD ; M. S. Gnanapragasam, MA MSc Calc. COMM.—G. Soundararajan, BA BL ; D. V. Krishnamurti, BA LLB. ECON. AND HIST.—S. Rajendran, BA LT, A. V. Devasia, MA. ENGL.—Rev. L. Sundaram. MALAYALAM—K. N. Sankaran Unni, MA. FRENCH—Rev. Amescua. LOGIC—Rev. J. Kalathil ; Rev. A. M. Antonyswami. MATHS.—Rev. C. Racine, DSc ; K. A. Adivarahan, MA. PHYS.—C. C. Ouseph, BSc ; V. V. Kunjuvareed, MSc ; A. Mahimaiddoss, MA. SANSK.—P. F. Davis, MA. TAMIL—M. S. Arulswami. ZOOL.—T. N. Ananthakrishnan, BSc. 85 other Teachers.

MADRAS, *Pachaiyappa's College*, Madras 30 (tel. : 61344). (Recognized in postgrad. courses in Econ., Hist., Maths., Philos., Comm., Tamil, Telugu). Principal—R. Krishnamurti, MA. Profs. and Asst. Profs. : BOT.—V. S. Sundaralingam, MSc. CHEM.—P. Bhaskarapanikkar, MSc. COMM.—P. R. Sundararajan, MA LT MCom. ECON.—A. Muthiah, MA. ENGL.—R. Krishnamurti, MA ; W. V. Venkata Rao, MA. FRENCH—M. S. Jothi, MA. HIST.—T. K. Venkataraman, MA LT. TAMIL—M. Varadarajan, MOL PhD. TELUGU—S. Ramalinga Sastri. HINDI—P. V. Chalapatteeswara Rao, MA. SANSK.—A. S. Mudaliar, MA. MATHS.—T. S. Sankaranarayana Pillai, MA ; K. Narasimhachari, MA ; A. Ramanathan, MA. PHILOS.—P. C. Munuswamy, MA. PHYS.—V. P. N. Nambiar, MA. ZOOL.—J. P. Balasingh. 106 other Teachers.

MADRAS, *Presidency College*, Madras 5 (tel. : 86188). (Recognized in postgrad. courses in Bot., Chem., Econ., Engl. Lang. & Lit., Geog., Geol., Hist., Maths., Phys., Pol., Psychol., Sansk., Tamil, Telugu, Zool.). Principal—T. B. Nair, MA Lond., LT. Profs. : BOT.—B. G. L. Swamy,

DSc. CHEM.—T. R. Govindachari, MSc PhD. ECON.—S. Velayudham, MA LT. ENGL.—S. Ramaswami, MA. GEOG.—N. Ananthapadmanabhan, BSc. GEOL.—P. S. G. Dowie, DSc. HIST.—T. B. Nair, MA Lond., LT. MATHS. AND STATISTICS—P. V. Abdurahiman, MA BT PhD. PHYS.—V. S. Angappan, MA. SANSK.—Thirug-nanasambandam, MA LT. TAMIL—G. L. Govindarajan, BSc LT. TELUGU—K. Suryanarayana, MA. ZOOL.—H. Enoch, MA. 132 other Teachers.

MADRAS, *Queen Mary's College* (tel. : 84115). (Recognized in postgrad. course in Geog.). Principal—Miss A. R. Iravathi, BA BED PhD. ENGL.—Miss L. Thomas, MA LT. TAMIL—Miss R. Rajamani, BA LT. TELUGU—Miss Y. Sarojini, MA. SANSK.—Mrs. K. S. Unni, BA LT. MALAY-ALAM—Miss K. Bhanumati, MA. FRENCH—Mrs. D. Stuart, BA LT. HINDI—Mrs. P. Mandakini Bai, MA. ECON.—Mrs. Mahamooda Khadri, MA. LOGIC—Mrs. R. Kalpagam, BA. GEOG.—Mrs. R. Radha, MA LT. MATHS.—Miss S. Pankajam, MA MSc LT ; L. Doraipandian, BSc. CHEM.—Miss Laxmi Rangacharlu, MSc LT. PHYS.—K. Ranganayaki, MA LT. NAT. SCI.—Miss A. K. Joshua, BSc Lond. INDIAN MUSIC—Mrs. K. Bhanumatiamma, MA. HOME SCI. AND HOUSEHOLD ART—Mrs. Stella Soundararajan, MSc. 64 other Teachers.

MADRAS, *Stella Maris College* (tel. : 71503). (Recognized in postgrad. courses in Econ., Engl., Indian Music). Principal and FRENCH—Rev. Mother M. Proinsias, MA Calc. CHEM.—Miss S. Visalakshi, MSc. ECON.—Rev. M.M. C. Rosa, PhD ; Rev. M.M. Sylvester, MA. ENGL.—Rev. M.M. L. Teresia, BA Boston. HINDI—Miss K. Rajeswari, MA. MATHS.—Rev. M.M. Magdalene, BA Lond. INDIAN AND WESTERN MUSIC—Rev. M.M. David ; Miss S. Seetha, BA MLitt. ZOOL.—Rev. M.M. Edwin, BSc. 39 other Teachers.

MADRAS, *Vivekananda College* (tel. : 71057). (Recognized in postgrad. courses in Maths.,

Philos., Sansk. and Econ.). Principal—T. R. Raghava Sastri, MA. ENGL.—G. N. Seshadri, MA. MATHS.—N. S. Ayyar, MA; T. R. Raghava Sastry, MA. PHILOS.—S. Rajagopala Sastri, MA. PHYS.—M. Narayanamurti, MA. SANSK.—V. S. V. Chari, MA. TAMIL—C. Jagannathachari, MA. TELUGU—K. Bhaktavatsalam, MA. HINDI—K. M. Sridar, MA. CHEM.—P. C. Ramachandran, MA. BOT.—G. Venkataraman, MA MSc LT. ECON.—K. Vasudevan, MA. HIST.—R. S. Chakravathy, MA BL. COMM.—R. D. Reddy, BA LT. 81 other Teachers.

MADRAS, *Women's Christian College* (tel.: 86798). (Recognized in postgrad. course in Home

Sci.). Principal—Miss Renuka Mukerji, MA. ENGL.—B. M. Corfield, MA PhD *Harv.* BOT.—A. T. Zachariah, MSc PhD; Miss S. Murthy, MA. CHEM.—Miss C. Douglas, MS *Chic.*; Mrs. L. Gnanadoss, MSc PhD *Delhi.* GEOG.—Miss Renuka Mukerji, MA. HIST.—Miss M. Augustus, MA. PHILOS.—Miss P. Devaraj, MS *Tennessee*, MA; Miss I. Srinivasan, MA. PHYS.—Miss A. Mathews, MSc. TAMIL—Miss M. Masillamani, MA. TELUGU—Miss M. Subasini, MA; Miss M. Saradamba, MA. SANSK.—Miss K. Janamma, BA. HINDI—Mrs. P. Naidu, MA. HOME SCI.—R. Arulanatham, MSc PhD *Chic.*; Mrs. G. Kamalanathan, MS *Corn.* ZOOL.—Miss M. Poonan, MA. 37 other Teachers.

## AFFILIATED POSTGRADUATE COLLEGES

KARAIKUDI, *Alagappa College*. (Recognized in postgrad. course in Tamil). Principal—A. Gnanamuttu, MA. BOT.—S. Doraiswamy, MA MSc. CHEM.—V. V. Subrahmanyam, BSc. ENGL.—A. Gnanamuttu, MA; K. P. K. Menon, MA PhD. ECON.—S. Srinivasan, MA LT. MATHS.—N. Sethuraman, BSc LT. PHYS.—K. G. Krishnan, MSc. ZOOL.—J. Samuel Raj, MSc. TAMIL—V. S. P. Manickam, MA MOL. SANSK.—A. V. N. Sarma. HINDI—M. G. V. Krishnan. 3 Profs., 38 Lectrs., 31 other Teachers.

MADURAI, *American College*. (Recognized in postgrad. course in Chem.). Principal—S. J. Savariroyan, MA. BOT.—C. R. Narayanan, BA. CHEM.—M. Lakshmanan, MSc LT. ENGL.—Rev. F. Jacob, MA; Rev. A. G. Samuel, BA. ECON.—S. Sundararajan, MA MLitt. MATHS.—T. Natarajan, MA. PHYS.—S. J. Savariroyan, MA; E. S. Moses, MA. ZOOL.—S. Abraham, MA LT. 2 Profs., 32 Lectrs., 22 other Teachers.

MADURAI, *Madura College*. (Recognized in postgrad. courses in Maths. and Phys.). Principal—T. T. Ayyangar, MA. BOT.—T. R. Purushothaman, MA. CHEM.—S. Krishnamurthy, BSc. ENGL.—T. S. Devanarayanan, BA. ECON.—P. S. Ramaswami, BA; V. N. H. Rao, MA PhD. MATHS.—T. T. Ayyangar, MA; S. Subramanian, MA. PHYS.—P. S. Varaduchari; K. S. Venkatesan, MA. ZOOL.—R. Krishnan, MA. TAMIL—R. Krishnamurthy, MA LT. SANSK.—G. K. R. Subrahmanyam, MA. HINDI—T. Seshadri, MA. 1 Prof., 35 Lectrs., 23 other Teachers.

MADURAI, *Thiagarajar College*. (Recognized in postgrad. course in Tamil). Principal—G. Varadachari, MA. CHEM.—T. Sakthivelu, MA. ENGL.—G. Varadachari, MA. ECON.—S. V. Vaidyanathan, MA. HIST.—K. S. Sivaraman, MA. MATHS.—V. Seetharaman, MA MSc PhD. PHYS.—V. R. Ramanathan, MA LT. ZOOL.—

N. Balakrishna Nair, MA PhD. TAMIL—S. Ilakkuvanar, MA. 36 Lectrs., 16 other Teachers.

NAGERCOIL, *S.T. Hindu College* (Recognized in postgrad. course in Tamil). Principal—N. Ananthavaidyanathan, MA. CHEM.—N. Ananthavaidyanathan, MA. ENGL.—P. R. Ananthanarayana, BA. ECON.—C. A. Saldanha, MA. MATHS.—S. S. Mani, MA. PHYS.—D. Parameswaran, MSc. ZOOL.—C. Kumara Pillai, MA. TAMIL—E. V. Moni, MA. 23 Lectrs., 16 other Teachers.

TAMBARAM, *Madras Christian College*. (Recognized in honours courses in English Lang. & Lit., Hist. & Econ., Maths., Philos., Phys. and Zool.). Principal—Rev. J. R. Macphail, MA DD. Profs.: BOT.—K. R. Venkatasubban, MA PhD. CHEM.—S. V. Anantakrishnan, MA PhD. ENGL. LANG. AND LIT.—Rev. J. R. Macphail, MA DD. ECON.—J. Hesley, BSc *Lond.* HIST.—C. Devanesan, MA *Camb.* MATHS.—W. F. Kibble, MA PhD *Edin.* PHILOS.—C. T. Krishnamachari, MA PhD. PHYS.—M. A. Thangaraj, MA PhD *Tor.* ZOOL.—J. P. Joshua, MA PhD *Liv.* SANSK.—U. Venkatakrishna Rao, MA. MALAYALAM—E. K. Purushothaman, MA. TAMIL—P. A. Chettiar, MA. TELUGU—P. R. P. Francis, MA. 56 other Teachers.

TIRUCHIRAPALLI, *St. Joseph's College*. (Affiliated in honours courses in Econ., Hist., Maths. Phys.). Principal—Rev. X. Ehrhart, MA *Camb* Profs.: BOT.—Rev. L. M. Balam, MA. CHEM.—C. K. Ramakrishnan, MA. ENGL.—Rev. T. N. Siqueria, MA. HIST. AND ECON.—Rev. J. Adisayam, BA; Rev. X. Ehrhart, MA *Camb.*; T. Srinivasan, MA; A. Hirudayaswami, MA. LOGIC—Rev. S. Thomas, PhD. MATHS.—Rev. A. Gonsalves, MA; S. Suryanarayana, MA. PHYS.—P. R. Subrahmanyam, MA. FRENCH—Rev. A. Fays. MALAYALAM—T. K. Devasia, MA. TAMIL—R. Mascarenhas, MA. 83 other Teachers.

## CONSTITUENT FIRST GRADE COLLEGES

[Pre-Univ., BA, etc., after the name of a coll. means that courses are provided there for Pre-Univ., BA, etc.]

MADRAS, *Agurchand Manmull Jain College*. Pre-Univ., BA, BSc, BCom. Principal—A. L. Krishnan, BA. 3 Profs. and 21 other Teachers.

MADRAS, *Ethiraj College for Women*. Pre-Univ., BA, BSc. Principal—..... 2 Profs. and 31 other Teachers.

MADRAS, *Govt. Arts College*. Pre-Univ., BA, BSc. Principal—S. Yakub, MA LT. 10 Lectrs. and 77 other Teachers.

MADRAS (ROYAPETTAH), *The New College*.

Pre-Univ., BA, BSc. Principal—A. J. Syed Abdul Wahab Sahib Bukhari, MA LT. 24 other Teachers.

MADRAS, *Sir Theagaraya College*. Pre-Univ., BA, BSc. Principal—K. Rajagopalan, MA LT. 3 Profs. and 35 other Teachers.

MADRAS (TEYNAMPET), *S.I.E.T. Women's College*. Pre-Univ., BA, BSc. Principal—Miss Vijaya Koman, MA LT. 9 other Teachers.

## AFFILIATED FIRST GRADE COLLEGES

ADIRAMPATTINAM, *K.M. College*. Pre-Univ., BA, BSc. Principal—T. Dhanakoti, MA. 8 Lectrs. and 7 other Teachers.

COIMBATORE, *Govt. College*. Pre-Univ., BA, BSc, BCom. Principal—B. M. Tirunaranan, BA. 8 Lectrs. and 50 other Teachers.

COIMBATORE, *Home Science College*. Pre-Univ., BA, BSc. Principal—Mrs. N. I. Parvati, MA BT. 4 Profs. and 8 other Teachers.

COIMBATORE, *Nirmala College*. Pre-Univ., BA, BSc. Principal—Sister M. Josephine, MA. 19 other Lectrs. and 4 other Teachers.

COIMBATORE, *P.S.G. Arts College*. Pre-Univ., BA, BSc. Principal—B. R. Krishnamurti, MA LT. 24 Lectrs. and 12 other Teachers.

ERODE, *Mahajana College*. Pre-Univ., BA, BSc. Principal—..... 3 Profs., 12 Lectrs., 4 other Teachers.

KANCHEEPURAM, *Pachaiyappa's College*. Pre-Univ., BA, BSc. Principal—K. C. Govindarajan, MA. 3 Profs., 14 Lectrs., 7 other Teachers.

KATPADI, *Auxilium College*. Pre-Univ., BA, BSc. Principal—Sister Juliana Fernandez, MA. 5 Profs., 11 Lectrs., 6 other Teachers.

KUMBakonam, *Govt. College*. Pre-Univ., BA, BSc. Principal—..... 6 Profs. and 52 other Teachers.

MADURAI, *Fatima College*. Pre-Univ., BA, BSc. Principal—Miss N. Shakunthala, MSc. 3 Profs., 14 Lectrs., 6 other Teachers.

MADURAI, *Lady Doak College*. Pre-Univ., BA. Principal—Miss G. Gnanadickam, MA. 6 Profs. and 28 other Teachers.

MAYURAM, *A.V.C. College*. Pre-Univ., BA, BSc. Principal—M. Viswanathan, MA. 3 Profs. and 15 other Teachers.

NAGERCOIL, *Scott Christian College*. Pre-Univ., BA, BSc. Principal—B. Arumai Raj, MA. 7 Profs., 40 Lectrs., 35 other Teachers.

OOTACAMUND, *Govt. Arts College*. Pre-Univ.,

BA, BSc. Principal—S. M. Fazlullah, MA LT. 5 Profs., 13 Lectrs., 6 other Teachers.

PALAMCOTTAH, *St. John's College*. Pre-Univ., BA. Principal—J. Vedasiromani, MA BL. 3 Profs. and 34 other Teachers.

PALAMCOTTAH, *St. Xavier's College*. Pre-Univ., BA. Principal—Rev. K. A. Soosai, MA. 3 Profs. and 42 other Teachers.

PALAMCOTTAH, *Sarah Tucker College*. Pre-Univ., BA. Principal—Dora David, MA. 4 Profs. and 21 other Teachers.

POLLACHI, *Nallamuthu Gounder Municipal College*. Pre-Univ., BA, BSc. Principal—S. Narasimhan, MA LT. 4 Profs. and 17 other Teachers.

POONDI (Tanjore District), *Sri Pushpam College*. Pre-Univ., BA, BSc. Principal—O. R. Suriyanarayana, MA. 3 Profs., 10 Lectrs., 6 other Teachers.

PUDUKOTTAI, *The Raja's College*. Pre-Univ., BA, BCom. Principal—..... 5 Profs. and 28 other Teachers.

SALEM, *Govt. College*. Pre-Univ., BA. Principal—V. A. Nair, MA. 4 Profs. and 39 other Teachers.

SIVAGANGA, *Rajah Doraisingham Memorial College*. Pre-Univ., BA. Principal—B. S. Dhandapani, MA. 2 Profs. and 21 other Teachers.

TANJORE, *Rajah Serfoji College*. Pre-Univ., BA, BSc. Principal—T. Murugaiyan, MSc. 4 Profs., 13 Lectrs., 8 other Teachers.

TIRUCHIRAPALLI, *Holy Cross College*. Pre-Univ., BA, BSc. Principal—Sister Philomena, MA. 7 Profs. and 33 other Teachers.

TIRUCHIRAPALLI, *Jamal Mohamed College*. Pre-Univ., BA, BCom. Principal—M. J. M. Sayeed, MA. 3 Profs. and 45 other Teachers.

TIRUCHIRAPALLI, *National College*. Pre-Univ., BA, BCom. Principal—M. S. Venkatramanan, MA. 6 Profs. and 48 other Teachers.

**TIRUCHIRAPALLI, Seethalakshmi Ramaswami College.** Pre-Univ., BA, BSc. Principal—..... 12 Lectrs. and 6 other Teachers.

**TIRUNELVELI, M.D.T. Hindu College.** Pre-Univ., BA. Principal—K. S. Ganapatty, MA LT. 3 Profs. and 31 other Teachers.

**TIRUPATTUR, Sacred Heart College.** Pre-Univ., BA. Principal—Rev. J. Murphy, MA. 2 Profs. and 14 other Teachers.

**TUTICORIN, St. Mary's College.** Pre-Univ., BA. Principal—Sister Teresita Mary, MA BT. 3 Profs. and 21 other Teachers.

**TUTICORIN, V. O. Chidambaram College.** Pre-Univ., BA, BSc. Principal—A. Srinivasaraghavan, MA. 3 Profs. and 28 other Teachers.

**UDAMALPET, G. V. G. Visalkshi College for Women.** Pre-Univ., BA, BSc. Principal—Miss Padmini Adishesiah, MA. 14 other Teachers.

**UTHAMAPALAYAM, H. K. R. Howthia College.** Pre-Univ. Principal—K. A. Gafoor, MA. 3 Profs., 8 Lectrs., 7 other Teachers.

**VANIYAMBADI, Islamiah College.** Pre-Univ., BA, BSc, BCom. Principal—M. A. Rahim, MA BT PhD. 3 Profs. and 25 other Teachers.

**VELLORE (N.A. District), Voorhees College.** Pre-Univ., BA, BSc. Principal—S. Jesuratnam, BA BSc. 4 Profs., 13 Lectrs., 15 other Teachers.

**VIRUDHUNAGAR, Senthikumara Nadar College.** Pre-Univ., BA, BSc, BCom. Principal—P. Thanagarajan, MA. 4 Profs. and 28 other Teachers.

## CONSTITUENT PROFESSIONAL COLLEGES

### Engineering

**GUINDY, College of Engineering.** BE, MSc (Engg). Principal—P. Rajagopal Pillai, BA, MIE(India). Profs.: CIVIL ENGIN.—V. Kalyanaraman, MSc *Tor.*, BE; T. S. Venkataramanan, BA BE. ELECTR. ENGIN.—A. Srinivasan, BE

MSc. MATHS.—N. Subbian, MA. MECH. ENGIN.—A. P. Jambulingam, MS *N.Carolina*, BE(Mech). TELECOMM. ENGIN.—K. S. Hegde, BE. 12 Instrs. and 50 other Teachers.

### Law

**MADRAS, Law College.** BL. Dir. of Legal Studies—A. S. Panchapakesa Ayyar, MA. Profs.: C. Rajaram, MA LLB; A. Palanisamy, BA ML;

V. Balasubramanyam, BSc ML; Mrs. Monica E. David, BA MED ML. 14 other Teachers.

### Medicine

**MADRAS, Medical College.** MB BS, MD, MS, BSSc, BDS and diploma courses. Dean—K. G. Krishna Swamy, MB MS. Profs. and Teachers: ANÆSTHESIA—V. Rajagopal, MB BS. ANAT.—T. Janardhanam, MB BS MSc. BACTERIOL.—N. R. Ratnakannan, MB BS. BIOCHEM.—N. Verghese, MB BS MSc. DENT. SURG.—K. Ramachandran, BSc BDS. EAR, NOSE AND THROAT—C. Satyanarayana, MB MS. HYG.—H. M. Sharma, MB BS BSSc MPH. INFECT. DIS.—A. Hadi, MB BS. MED. JURISP.—K. C. Jacob, MD. MED.—R. Subramanian, MD, MRCP. MENTAL DIS.—T. George, MB BS DPM. OBSTET., GYNÆCOL. AND DIS. OF CHILDREN—M. K. Krishna Menon, BA MD DGO; Mrs. S. Abraham, MB BS DGO. OPHTHALMOL.—T. T. Ramalingam, MB MS DO. ORTHOPÆDICS—M. Natarajan, BA MB BS. PATHOL.—S. P. Vedachalam, MD MS. PHARMACEUTICS—K. S. Srinivasavaradhan, MSc LT. PHARMACOL.—A. R. Govinda Rao, MB MS. PHYSIOL.—K. P. Anandan, MB BS MSc. RADIOLOG.—K. M. Rai, MB BS, FRCS. SURG.—G.

Atmarama Rao, MB MS. TUBERCULOSIS—M. A. Hameed, MD. VENEREAL DIS.—P. N. Rangiah, MD. 92 Assts.

**MADRAS, Stanley Medical College (Royapuram)** (tel.: 4985). MB BS, MD, MS. Dean—S. Balasubramanian, MB MS, FRCS. ANÆSTHESIA—V. Subbaraman, MB BS DA. ANAT.—A. Ananthanarayanan, MSc. BACTERIOL.—B. Sivarajan, MD BS. BIOCHEM.—A. N. Ramanathan, MB BS MSc. DERMATOL.—S. Rajagopalan, LMS. EAR, NOSE AND THROAT—Miss C. M. Leelavathi, MS DLO. HYG.—M. K. Jacob, MB BS. MED.—K. V. Thiruvengadam, BSc MD BS. OBSTET. AND GYNÆCOL.—O. Francis, MB BS DGO. OPHTHALMOL.—V. Rangachari, MB BS DO. PATHOL.—Mrs. V. C. Anguli, MD. PHARMACOL.—T. R. Krishnamoorthy, MB BS MSc. PHYSIOL.—Mrs. Sarada Subramanian, MB BS MSc. RADIOLOG.—A. N. K. Menon, MS. SURG.—K. C. Nambiar, FRCS. 77 other Assts., Tutors, etc.

### Teaching

**MADRAS, Lady Willingdon Training College** (tel.: 86397). BT, MEd. Principal—Miss B.

Ahalya Bai, MA LT. Miss N. Jagathambal, BA LT. 13 other Teachers.

MADRAS, *Meston Training College* (tel. : 84584). BT, MED. Principal—D. T. Chiranjivi, MA MED. Other Profs. : R. J. Victor, MA MED ; J. Devasahayam, MA MED ; A. M. Satya, MA LT. 5 other Teachers.

MADRAS, *St. Christopher's Training College* (tel. : 4077). BT, MED. Principal—Miss G. R.

Samuel, MA *Redlands*, MSS *Calif.*, LT. Other Profs. : Mrs. H. S. Charles, MA LT ; Miss E. M. Stokes, MSc *Manc.* 9 other Teachers.

SAIDAPET, *Teachers' College* (tel. : 88289). BT, MED. Principal—M. R. P. Mudaliar, MA LT. Other Profs. : A. E. Subramanian ; N. Krishnaswami, MA LT. 17 other Teachers.

### Veterinary

MADRAS, *Madras Veterinary College* (tel. : 3212). BVSc. Principal—B. A. D'Souza, BVSc MS. ANAT.—G. Lakshminarasimhan. ANIMAL GENETICS—M. Dharmarajan, MA MSc PhD *Liv.* ANIMAL HUSB.—A. R. Vedanayagam. ANIMAL NUTRITION—G. Venkatachalam, BVSc. HYG.—

R. D. Michael, BVSc. PARASITOL.—M. Anantharaman, MSc ; V. S. Alwar, BVSc. BACTERIOL.—V. K. Menon. PATHOL.—S. Damodaran, BVSc. PHARMACOL.—C. K. Velayudham. SURG.—M. N. Dandapani. 55 Asst. Lectrs.

## AFFILIATED PROFESSIONAL COLLEGES

### Agriculture

COIMBATORE, *Agricultural College*. BSc(Ag), dipl. in hortic. Principal—A. Mariakulandai, MSc PhD. Lectrs. : AGRIC.—T. Natarajan, BSc(Ag). ANIMAL HYG.—S. Krishnaswamy, VC,

GM, BSc, BVSc. BOT.—D. Daniel Sunderaraj, MSc PhD. CHEM.—T. N. Anantha Narayanan, MSc. ENGIN.—S. E. Anantharaman. HORTIC.—J. Samuel Sundararaj, BSc(Ag). 40 Assts.

### Engineering

COIMBATORE, *Govt. College of Technology*. BE. Principal—N. S. Krishnaswami, BE. Other Profs. : CIVIL ENGIN.—P. R. Ramaswami, BSc *Manc.* ELECTR. ENGIN.—K. S. Bhikshandeswaran, BSc. MECH. ENGIN.—K. A. Nair, BE. 5 Instrs. and 25 Assts.

KARAIKUDI, *Dr. Alagappa Chettiar College of Engineering & Technology*. BE. Principal—D. S. Venkanna, BSc BE. 52 other Teachers.

PEELAMEDU (Coimbatore District), *P.S.G. & Sons Charities College of Technology*. BE. Principal—G. R. Damodaran, BSc(Elect) BSc(Mech) *Durh.* (also Prof. of Mech. Engin.). CIVIL ENGIN.—K. Subbiah, BE MSc(Tech). ELECTR. ENGIN.—P. Krishnamacharlu, MSc *Cal. Tech.*, BE. MATHS.—S. Krishnan, MA. 5 Lectrs. and 12 other Assts.

COIMBATORE, *Institute of Technology*. BE. Principal—P. R. Ramkrishna, MSc *M.I.T.* ELECTR. ENGIN.—R. G. Janakiraman, BE MSc. MECH. ENGIN.—R. V. Srinivasan, BSc BE. MATHS.—T. V. Reddy, MSc. 7 Lectrs. and 6 other Teachers.

### Medicine

MADURAI, *Madurai Medical College*. MB BS. Principal—V. Gnanadickam, MD. BIOCHEM.—T. M. V. Nedungadi, MSc. PHYSIOL.—H. D. Singh, MB BS MSc. 66 other Teachers.

PONDICHERRY, *Medical College*. MB BS. Principal—S. G. Vengsarkar, MD BS. 48 other Teachers.

VELLORE, *Christian Medical College*. MB BS, MD, MS. Principal—J. C. David, PhD *Edin.*, MB BS. ANÆSTHESIA—Gwenda Lewis, BSc MB BCh *Wales*. ANAT.—Doris L. Graham, MD *Dub.*,

BA LM. BACTERIOL.—Ruth M. Meyers, PhD *Chic.* EAR, NOSE AND THROAT—A. J. Patt, MD MS. MED.—P. Kutumbiah, MD BS. NEUROL. AND NEURO-SURG.—J. Chandy, MB BS MSc, FRCS, FACS. OBSTET. AND GYNÆCOL.—Carol E. Jameson, BA MD, FACS, FRCS. OPHTHALMOL.—E. Roy, MB BS. PATHOL.—E. W. Gault, BSc MD MS, FRACS. PHARMACOL.—J. C. David, PhD *Edin.*, MB BS. PHYSIOL.—D. M. Jefferson, BA MD MSc *Manc.* RADIOLOG.—Ida B. S. Scudder, DMRE *Camb.*, BA MD. SURG.—N. S. Macpherson, MB BS, FRCS. 78 Assts.

### Nursing

VELLORE, *School of Nursing*. BSc(Nursing). Dean—Florence Taylor, MA MSc. 60 other Assts.

### Teaching

COIMBATORE, *Govt. Training College for Women*. BT. Principal—Miss N. Shanmugasundaram, MA LT. 9 other Teachers.

KARAIKUDI, *Dr. Alagappa Chettiar Training College*. BT. Principal—P. Duraikannoo, MA LT. Profs. : S. Thiruvengkatachari, MA MEd ; V. N. Subrahmanyam, BA LT. 8 other Teachers.

KOMARAPALAYAM, *Govt. Training College*. BT. Principal—S. A. Mudaliar, MA LT. 8 other Teachers.

MADURAI, *Thiagarajar College of Preceptors*. BT. Principal—S. A. Jain, MA LT. 11 other Teachers.

ORATHANAD (Tanjore Dt.), *Government Basic Training College*. Basic BT. Principal—J. Titus, BA MLitt. 11 other Teachers.

PALAYAMKOTTAI, *St. Ignatius' Training College*. BT. Principal—Mary Stephane, MA BT. 8 other Teachers.

PALAYAMKOTTAI, *St. Xavier's Training College*. BT. Principal—Rev. T. Thundiyl, MEd. Prof.: S. A. Pitchai, MA LT. 12 other Teachers.

PERIYANAICKENPALAYA (Coimbatore Dept.), *Sri Ramakrishna Vidyalaya Teachers' Training College*. BT. Principal—K. Kulandaivelu, MA BT. 10 other Teachers.

PUDUKOTTAI, *Govt. Training College*. BT. Principal—R. Arumugam, MA LT. 8 other Teachers.

TIRUPPAROYATHURI (TIRUCHIRAPALLI), *Vivekananda Training College*. BT. Principal—S. Krishna, MA LT. 9 other Teachers.

TUTICORIN, *V.O. Chidambaram Training College*. BT. Principal—..... 9 other Teachers.

VELLORE, *Govt. Training College*. BT. Principal—H. S. S. Lawrence, MA EdD Col. 10 other Teachers.

## APPROVED INSTITUTIONS

### Fine Arts

MADRAS, *Kalakshetra*, Adyar. Recognized for Sangita Siromani course. Principal—B. S. Krishnamurti Sastrigal. 5 other Teachers.

### Oriental Learning

Two institutions in Madras and 17 in the Mofussil are recognized as qualified to provide instruction for the Oriental Titles.

### Physical Education

KARAIKUDI, *Alagappa Chettiar College of Physical Education*. Recognized for dipl. course in phys. educn. (DipPE). Principal—M. Robson, BA Trav., MPE Springfield. 5 other Teachers.

MADRAS, *Y.M.C.A. College of Physical Education* (Saidapet). Recognized for dipl. course in phys. educn. (DipPE). Principal—S. P. Chopde, BA MPE Springfield. 5 other Teachers.

## GENERAL INFORMATION

Founded in 1857, the univ. continued to be an examining body till the early part of this century, when it took up also res. and teaching functions. This was given an impetus by the report of the Sadler Commission, and later by the Madras Univ. Act of 1923, which clearly laid down that the univ. would take up the devel. of res. and teaching depts. The univ. is federal, catering for postgrad. studies, and exercising control over the quality of the teaching given by its constituent and affiliated colls. Colls. within a radius of 10 mls. of the univ. are known as constituent colls. ; the affiliated colls. are spread over the different parts of Madras State. The univ. at present has

30 teaching and res. depts. comprising almost all the facs. Postgrad. teaching has also been organized on an inter-collegiate univ. co-operation basis.

CONSTITUTION. The authorities of the univ. consist of the senate, academic council, syndicate, facs. and bds. of studies. The senate is democratic in constitution and is representative of the colls., registered grads., legislature, local bodies, and certain learned socs. and assocns. This is the supreme governing body which considers the annual report and budget and frames statutes. The academic council is the supreme authority

which regulates courses of studies and standards of exams., and in general deals with all academic matters which emanate from the syndicate or the bds. of studies. The facs. consist of members of the academic council who are assigned to them, and the hds. of the univ. depts. These facs. generally advise the syndicate on matters referred to it. The bds. of studies form the primary academic body. For each subj. of study, a bd. is constituted consisting of the univ. hd. of the dept., and profs. drawn from the different colls. These bds. meet twice a yr. and advise the syndicate and academic council on courses of studies, prescription of textbooks, and the panel of examiners; they report also on matters academic referred to them. These recommendations invariably come up before the academic council and before the syndicate. The syndicate is the executive authority which consists of the vice-chancellor, the dir. of public instrcn. of Madras State, certain members elected by the senate and the academic council, and 3 members nominated by the chancellor. It meets monthly to consider matters pertaining to the admin. of the univ. The vice-chancellor, a full-time salaried officer, is the chief executive officer of the univ. The registrar is sec. of the syndicate and the authorities of the univ., and carries out the various decisions of the authorities.

FACULTIES AND PRESIDENTS. *Agric.*—.....; *art* R. Krishnamurti, MA; *comm.*—P. D. S. Mudahar, BA; *engin.*—P. Rajagopal Pillai, BA, MIE(India); *fine arts*—P. Sambamurti, BA BL; *latv*.....; *med.*—S. Balasubrahmanian, MS; *oriental learning*—R. P. Sethu Pillai, BA BL DLitt; *sci.*—.....; *teaching*—K. R. Appalachari, MA LT; *technol.*—G. S. Laddha, ChE PhD *Purdue*, BSc(Tech) MSc; *vet. sci.*—B. A. D'Souza, BVSc MS.

LABORATORIES. Zool., bot., phys., geol., org. chem., biochem., phys., chem., and textile technol.

The usual LANGUAGE OF INSTRUCTION is English.

ADMISSION. The min. qualif. for entrance to the pre-univ. course is the matric. exam. or such other exams. held under the auspices of a univ. or public body as are recog. by the univ., or the cert. issued under the S.S.L.C. scheme in accordance with rules framed by the univ. Admission to the pre-professional course (agric., med., technol.) is open to candidates who have passed the pre-univ. exam. Except for *bona fide* teachers in instns. within the univ. area, candidates are not admitted to any of the exams. without undergoing the prescribed course of study in a coll.

FIRST DEGREES. BA, BSc, BSc(HomeSci), BCom, 3 yrs. after pre-univ.; BSc(Ag), BPharm, 3 yrs. after inter. or pre-professional; BSc(Nursing), 4 yrs. after matric.; BSc(Tech), BDS, 4 yrs. after inter. or pre-professional; BArch, BE, 5 yrs. after pre-univ.; BVSc, 5 yrs. 1 term after pre-univ.; BIM (Indian med.), 5 yrs. after

inter. or pre-professional; MB BS, 5½ yrs. after inter. or pre-professional. Postgrad.: BT, BLibSc, 1 yr.; BSSc (san. sci.), 1 yr. after MB BS; BL, 2 yrs.

HIGHER DEGREES. MEd, 1 yr. after BT; MSc (Engg), 1 yr. after BE; MA, 2 yrs. after BA, BSc; MSc (by exam.), 1 yr. after BSc (hons.); MSc, 2 yrs. after BSc; MSc(HomeSci), 2 yrs. after BSc (HomeSci); MCom, 2 yrs. after BCom; MLitt, 1 yr. after BA (hons.), 2 yrs. after BA; ML, 2 yrs. after BL; MD, MS, each 3 yrs. after MB BS; MVSc, 2 yrs. after BVSc; PhD, not less than 3 yrs. from 1st degree; DLitt, 3 yrs. after MLitt, MOL, 2 yrs. after PhD; DSc, 3 yrs. after MSc, 2 yrs. after PhD; LLD, 5 yrs. after BL, 1 yr. after ML.

DIPLOMAS. Postgrad.: Analyt. chem., anthropol., criminol. & forensic sci., journalism, phys. educn., soc. service, anæsthesia, child health, clin. pathol., dermatol., gynæcol. & obstet., ophthalmol., orthopædics, oto-rhino-laryngol., radiol., tuberculosis, venereol., 1 yr.; archæol., econ., 2 yrs.; statistics. Other: hort., mod. European langs. (French & German), 1 yr.; Indian music, pol. & pub. admin., 2 yrs.; business management, 3 yrs.

CERTIFICATES. French, German, librarianship.

ORIENTAL TITLES. Siromani, Vidvan, Afzal-ul-Ulama, Munshi-i-Fazil, Adib-i-Fazil, Tabibi-Kamil, Afzal-ul-Attibba, Malpan and Soppar, Sangita Siromani (4 yrs.).

RECOGNITION of exams. of other univs. is not granted in general terms. The syndicate deals with each applicn. on its merits.

FEES for univ. exams. range from Rs. 5 to Rs. 250. Fees levied by colls. vary from Rs. 42 to Rs. 80 per term, according to courses. Fees levied by the univ. for dipl. courses vary from Rs. 15 to Rs. 100.

ACADEMIC YEAR. For colls. affiliated or recog. in arts, law, sci., teaching, 3 terms. Term dates (approx.): June 25 to Sept. 28; Oct. 5 to Dec. 23; Jan. 6 to March 20.

RESIDENCE, ETC. Min. cost of board and lodging for students living in European style, Rs. 100 p.m.; Indian, Rs. 60 p.m. A students' club provides inexpensive meals and facilities for games and social intercourse irrespective of caste or creed.

UNIVERSITY STUDENTS' UNION. Located in Madras for the benefit of students in constituent colls.; facilities for games. The governing body consists of the principals of constituent colls.

PUBLICATIONS. *Calendar*—Vol. I, administration, statutes and ordinances, constituent and affiliated colls., endowments; Vols. II and III, ordinances and regns., syllabuses; *Annual Report*; *Minutes* (of meetings of senate, academic council and syndicate); *Madras Univ. Journal*; *Annals of Oriental Research*.



## THE YEAR 1959

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . .	40,513	—
Women . .	8,495	—
Total	49,008	

Distribution by Faculties, etc. *Agric.*, 571 ; *archit.*, 21 ; *arts & sci.* (incl. comm.), 36,887 ; *MSc (by exam.)*, 107 ; *engin.*, 3996 ; *law*, 1201 ; *med.*, 2662 ; *nursing*, 56 ; *oriental learning*, 1376 ; *phys. educn.*, 51 ; *soc. service*, 55 ; *teaching*, 1137 ; *technol.*, 73 ; *vet. sci.*, 469. *Pre-professional*, 923. *Dipl. & cert. classes held in the univ.*, 378.

Included in the figures above are :—

Pre-University students, 15,412.

Postgraduate students, 750.

Students from other countries, 925. (Countries from which largest numbers came : Ceylon, 726 ; Malaya, 126).

DEGREES AWARDED (1958-59). ML, 5 ; BL, 414 ; MD, 13 ; MB BS, 272 ; BPharm, 11 ; BSc(Nursing), 12 ; BE, 341 ; BDS, 7 ; MSc, 53 ; BSc (hons.), 94 ; BSc, 1500 ; BSSc, 3 ; BVSc, 77 ; BSc(Tech), 46 ; BSc(Ag), 67 ; BCom (hons.), 42 ; MEd, 16 ; BCom, 735 ; BT, 916 ; BT (Basic), 14 ; LT, 8 ; MLitt, 7 ; PhD, 24 ; MA, 762 ; BA (hons.), 491 ; BA, 4045 ; BOL (hons.), 491 ; BOL, 12 ; BA(war), 1 ; BMus, 2.

DIPLOMAS AWARDED (1958-59). Anthropol., 5 ; bus. management, 8 ; econ., 2 ; French, 13 ; German, 10 ; Indian music, 12 ; journalism, 2 ; librarianship, 19 ; phys. educn., 43 ; pol. & pub. admin., 8 ; soc. service, 51 ; statistics, 16.

CERTIFICATES AWARDED (1958-59). Anthropol., 5 ; French, 27 ; German, 31 ; librarianship, 23.

# MARATHWADA UNIVERSITY

Founded 1958

*Postal Address* : Aurangabad (Deccan), Maharashtra State, India

*Cables and Telegrams* : Marathwada University, Aurangabad (Deccan)

*Telephone* : 190

CHANCELLOR—H.F. THE GOVERNOR OF MAHARASHTRA (*ex officio*)

VICE-CHANCELLOR—S. R. DONGERKERY, BA LLB *Bom.*

REGISTRAR—M. B. CHITNIS, MA *Bom.*

LIBRARIAN—N. A. GORE, MA DipLib *Bom.*

## TEACHING STAFF

### Chemistry

Borkar, V. V., MA PhD *Bom.*  
Ranbhise, N. P., MA *Poona*

### Economics

### Marathi Language and Literature

Prof. Kulkarni, W. L., MA *Bom.*  
Lectr. Pathan, Y. M., MA BT PhD *Poona*  
Lectr. Rasal, S. N., MA *Osm.*

Prof.  
Lectr.  
Lectr.

### Zoology

Prof. ....  
Lectr. ....  
Lectr. ....

Prof.  
Lectr.  
Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Admin.): V. K. Dhamankar,  
MA *Poona* ; Asst. Registrar (Exams.): A. D.  
Chavan, MA *Bom.* ; Accts. Officer : V. B. Wani,

BA BCom *Poona* ; Asst. Librarian : V. B.  
Laturkar, BA DipLib *Nag.* ; Sec., Extra-Mural  
Bd. : R. S. Gupta, MA *Bom.*

## AFFILIATED INSTITUTIONS

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

AURANGABAD, *Deogiri Arts & Science College*.  
Pre-Univ. course, Pre-Professl. course, BA I yr.  
Principal—A. N. Chikhalikar, MA. 8 other  
Teachers.

AURANGABAD, *Dr. Ambedkar College of Commerce*. BCom. Principal—R. P. Nath, MCom.  
9 other Teachers.

AURANGABAD, *Govt. College of Arts & Science*.  
BA, BSc. Principal—M. G. Deshmukh, MA  
PhD LLB *Nag.* 35 other Teachers.

AURANGABAD, *Govt. College of Education*. BEd.  
Principal—N. T. Vartak, MSc MEd BT. 6 other  
Teachers.

AURANGABAD, *Govt. College of Engineering*. BE.  
Principal—S. C. Marathe, BE(Civil). 9 other  
Teachers.

AURANGABAD, *Govt. Medical College*. 1st  
MB BS. Principal—P. M. Bhandarkar, MS. 13  
other Teachers.

AURANGABAD, *Manikchand Pahade Law College*.  
LLB. Principal—V. Das, MA BL *Calc.* 6 other  
Teachers.

AURANGABAD, *Milind Maha Vidyalaya*. BA,  
BCom, BSc. Principal—M. N. Wankhade, MA.  
45 other Teachers.

BHIR, *M.S.P.M.'s Arts & Science College*.  
Pre-Univ. course, BA I yr. Principal—D. G.  
Kulkarni, MA BT. 8 other Teachers.

JALNA, *Arts & S.B.L. Commerce College*. BA,  
BCom. Principal—P. M. Sapre, MCom. 7  
other Teachers.

JALNA, *J.S.P.M.'s Science College*. Pre-Univ. course (Scis.). Principal—D. S. Yelikar, MSc. 5 other Teachers.

KANDHAR (DIST. NANDED), *S.S.M.E.S.'s Shri Shivaji Mofat College*. Pre-Univ. course, BA I & II yrs. Principal—G. S. Chunekar, MA. 4 other Teachers.

MOBINABAD, *Yogeshwari Science College*. BSc. Principal—..... 15 other Teachers.

NANDED, *People's College*. BA, BCom, BSc. Principal—K. R. Shirwadkar, MA. 24 other Teachers.

OMERGA (DIST. OSMANABAD), *Shri Chhatrapati Shivaji College*. Pre-Univ. course, Pre-Professl. course, BA I & II yrs., BSc I yr. Principal—M. V. Shingre, MSc. 8 other Teachers.

OSMANABAD, *S.S.V.S.S.'s BEd College*. BEd. Principal—M. D. Rane, MEd. 4 other Teachers.

OSMANABAD, *S.S.V.S.S.'s College of Arts*. Pre-Univ. course, BA I yr. Principal—R. K. Kanbarkar, MA. 6 other Teachers.

PARBHANI, *Govt. College of Agriculture*. BScAgri. Principal—V. P. Gokhale, BAg MSc(Agri). 27 other Teachers.

## GENERAL INFORMATION

The region comprising the districts of Aurangabad, Parbhani, Nanded, Bhir and Osmanabad is known as Marathwada. It formed a part of the former Hyderabad state and subsequently a unit of the reorganized Bombay state. For nearly a decade there was a demand for a separate univ. for this region from the citizens of Marathwada. On the eve of the reorganization of states in India, the govt. of Hyderabad recommended to the successor govt. of Bombay the establ. of this univ. The govt. of Bombay accordingly appointed a cttee. on whose report the legislature passed the Marathwada University Act, 1958, to establ. and incorporate a teaching and affiliating univ. at Aurangabad. The act received the assent of the governor on May 5, 1958, and the univ. was inaugurated by Mr. Nehru, the prime minister of India, on Aug. 23, 1958.

**CONSTITUTION.** The main authorities of the univ. are the court, the executive council, the academic council, the facs., the bds. of studies, the bd. of univ. teaching and the bd. of extramural studies. The court is a body with wide powers, which include the taking of decisions on questions of the affiliation of colls., the establ. of depts., hostels and instns. of res. and specialized studies, the conferment of degrees, the instn. of teaching posts such as professorships, readerships and lectureships. The executive council is the executive authority of the univ., which is in charge of the day-to-day admin. The academic council has the control and general regn. of the maintenance of the standards of teaching and exams. within the univ. The duties of the bds. of studies are to recommend text-books, draw up courses of study in their respective depts., and panels of examiners, etc. The bd. of univ. teaching reports direct to the executive council regarding the conduct of all instrcn., teaching, trg. and res.

**INCOME (1959-60).** Rs. 1,051,563 (exam. & other fees, 19 per cent.; state govt. grant, 54 per cent.; grants from U.G.C. & govt. of India, 26 per cent.; misc., 1 per cent.).

**FACULTIES AND DEANS.** *Agric.*, .....; *arts*, Dr. M. G. Deshmukh; *comm.*, Prof. V. K. Pande; *educn.*, Mir Abu Talib; *law*, Principal Vish-

wanath Das; *med.*, Dr. P. M. Bhandarkar; *sci.*, K. A. Thakar.

**UNIVERSITY PRECINCT.** A portion of the site called the Soneri Mahal site, of about 700 acres, has been acquired for the univ. campus near a historic monument called Bibi ka Maqbara, which is a replica of the Taj Mahal, at the foot of hills. At present, the office of the univ. has been temporarily housed in a govt. bldg. in the town.

**LIBRARY.** 48,000 vols. (mainly lit., hist., art)

**LABORATORIES.** No univ. labs. at present, postgrad. teaching in scis. being conducted in affiliated coll. labs.

**ADMISSION.** Pre-univ. courses, conducted in the affiliated colls., of 1 yr. after the H.S.C. (high sch. cert.) exam. or an exam. approved as equivalent, admit to the degree courses in arts, sci., comm., and to the pre-professional course leading to 1st MB BS and civil engin. courses.

**FIRST DEGREES.** 3 yrs. after pre-univ.—BA, BSc, BCom; 4 yrs. after H.S.C.—BScAgri, 2 yrs. after 1-yr. pre-professional course (with phys., chem., biol.) taken after pre-univ.—1st MB BS, 2 yrs. after 1-yr. pre-professional course (with phys., chem., maths., drawing) taken after pre-univ.—BE.

**HIGHER DEGREES.** BEd, 1 yr., and LLB, 2 yrs. from 1st degree; MA MSc, 2 yrs. from 1st degree; PhD, 2 yrs. from postgrad. degree.

**EXTERNAL DEGREES.** BA. External students (women, and persons gainfully employed within the Marathwada Univ. area) may appear as private students for the pre-univ. (humanities) and BA exams. without attending lectures in a recog. instn. of the univ.

**RESEARCH.** Depts. of econ. and Marathi provide res. facilities for students and themselves undertake res., e.g. the compilation of a Persian-Arabic-Turkish-Marathi dictionary and a study of the socio-econ. effects of the Poorna project.

**STUDY LEAVE.** The exec. council may grant study leave to univ. profs., readers or lectrs. on such terms as it thinks fit.

**FEES.** Annual tuition fees: MA classes, Rs.

200; MSc classes, Rs. 300. (Undergrad. classes are conducted by the affiliated colls.).

ACADEMIC YEAR. June to April, 2 terms : June to Oct., Nov. to April. Vacation of 14 days in winter (Dec. 24 to Jan. 6).

USUAL LANGUAGE OF INSTRUCTION. English.

ADULT EDUCATION. With object of giving univ. educn. a rural and social orientation by taking univ. educn. to men and women denied opportunities for higher educn., the bd. of extra-mural studies provides adult educn. to students registered at centres opened by the bd. in rural areas (at present there are 10 centres : 2 in each of the 5

districts of Marathwada); lectures are given by univ. or coll. teachers.

PRINCIPAL 'OPEN' AWARDS. Merit scholps. awarded to students who obtain at least a 2nd class pass in the last qualifying exam. for the 1st degree; value : Rs. 15 p.m. for sr. classes, Rs. 10 p.m. for jr. classes.

NATIONAL CADET CORPS TRAINING. 4 platoons and 1 girls' troop at Aurangabad, 2 platoons at Nanded.

PUBLICATIONS. *Annual Report*; *Univ. Handbook* (Vol. I, pts. I & II); *Prospectuses* of all univ. exams.

## THE YEAR 1959

NEW DEPARTMENTS AND CHAIRS. Econ., Marathi lang. & lit.

POSTGRADUATE TEACHING begun in chem., econ., Engl., hist., Marathi, Sanskrit, zool.

### Statistics

#### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	3437	398
Women . .	179	33
Total	3616	431

Distribution by Faculties. *Agric.*, 154; *arts*, 1504; *comm.*, 403; *educn.*, 72; *law*, 108; *med.*, 111; *sci.*, 1695. Total : 4047.

*Included in the figures above are :—*

Pre-University students, 1473.

Postgraduate students, 106.

New admissions, 1704.

Students from other countries, nil.

DEGREES AWARDED (1959-60). *Agric.*, 11; *arts*, 125; *comm.*, 39; *educn.*, 45; *law*, 42; *med.*, nil; *sci.*, 59. Total : 321.

# UNIVERSITY OF MYSORE\*

Founded 1916

Postal Address : Mysore, Mysore State, South India

Cables and Telegrams : Unireg, Mysore

Telephone : Mysore 677

CHANCELLOR—HIS HIGHNESS MAHARAJA SRI JAYACHAMARAJA WADIYAR BAHADUR OF MYSORE, GCB,  
GCSI, Governor of Mysore

PRO-CHANCELLOR—ANNA RAO GANAMUKHI, BA LLB

VICE-CHANCELLOR—N. A. NIKAM, MA *Camb.*

REGISTRAR—K. S. SIDDALINGAIAH, MSc PhD

CONTROLLER OF EXAMINATIONS—S. SHANKARALINGAPPA, BA

BURSAR—T. K. GURUSIDDAPPA, MA

LIBRARIAN—T. S. SHAMA RAO, MA

## TEACHING STAFF

[(CC), (MCWB), etc. —abbreviations for the names of univ. and intermediate colls.  
listed on p. 528]

**Arabic**, see Urdu

Vrushabhendrappa, G., MSc Reader (YCM)  
Bheemasena Rao, M. R., MSc Reader (CC)

### Botany

Narayan, K. N., MSc PhD Prof. (CC)  
Nagaraj, M., MSc PhD *Chic.* Principal (SCS)  
Kausik, S. B., DSc Reader (CC)  
Annapurna Bai, Miss B. H., MSc Reader (MCWB)

### Commerce

Ramakrishna Reddy, G., MA PhD Prof., Principal (ComC)  
Rama Rao, S. I., BSc *Lond.* Principal (FGCChit)  
Srinivasan, V., MA BCom Reader (ComC)  
Krishnamurti, G. N., MA Reader (ComC)

### Chemistry

Narayan, G., MSc PhD Prof. (CC)  
Siddappa, S., MSc PhD Prof. (CC)  
Shadaksharaswamy, M., MSc PhD Prof. (CC)  
Venkata Setty, T. H., DIC, BSc PhD Prof. (CC)  
Bhaskar, T. D., MSc MS Reader, Supt. (ICK)  
Lakshminaraniah, N., DIC, MSc PhD *Lond.*  
(on leave) Reader (CC)  
Siddalingiah, K. S., MSc PhD Reader (CC)  
Adaveesiah, C. N., MSc MS  
(on leave) Reader (ICD)  
Ratnamma, H., MSc Reader (MCWB)  
Santhanam, K., MSc Reader (ICB)  
Lakshmiakantha Settey, N. S., MSc Reader (FGCT)

**Economics**, see Hist., Econ. and Pol. Sci.

### Education

Rangachar, C., BSc MEd *Leeds* Prof., Actg. Principal (TC)  
Veerappa, N. S., BSc BT Reader (UD)

**Engineering**, see below

### English

Narasimhiah, C. D., MA *Camb.* Prof., Principal (MC)  
Singh, M. E. B., MA *Camb.* Prof. (CC)  
Nambiar, O. K., MA (on leave) Prof. (CC)  
Shantaveerappa, S. N., MA Prof. (MC)  
Muliyil, Mrs. G., BA Reader (MCWB)  
Srinivasa Rao, V., MA Reader (CC)  
Wesley, B. C., MA Reader (FGCT)  
Rajasekhariah, T. R., MA (on leave) Reader (CC)  
Ramachandriah, N. S., MA Supt. (ICD)

Mallikarjunappa, P., MSc Registrar, Dir. (Prasaranga)  
Madhuranath, M. K., MSc Reader (YCM)  
Lakshmikantham, Mrs. P., MSc Reader (MCWB)  
Venkatachala, S. V., MSc Reader, Supt. (ICChik)  
Shanke Gowda, H., DSc Reader (CC)

\* Member of the Association of Universities of the British Commonwealth

Annaiah Gowda, H. A., MA Reader  
 Puttamadappa, V., MA Reader (MCWM)  
 Gururaja Rao, R., MA Reader (MC)

### French and German

Graefe, Mrs. I., MA LT Reader (MCWB)

### Geology and Geography

Ghori, G. K., MSc PhD Lond. Prof. (MC)  
 Srinivasa Rao, M. R., MSc (Geol.) Prof.-in-Charge (CC)  
 Naidu, M. G. C., MSc PhD (on leave) Reader (CC)  
 Ahmed, S. N., MA LLB Reader (MC)

### Hindi

Nagappa, N., MA Reader (MC)

### History, Economics and Political Science

Huchappa, G. T., MA PhD N. Y. (Econ.) Prof. (MC)  
 Thotappa, K. B. Y., MA PhD Bom. & Chic. (Pol.) Prof. (UD)

### Readers

Parvathamma, H. M., MA (Econ.) (MCWB)  
 Halappa, G. S., MA Col. (on leave) (Pol.) (MC)  
 Srikantha Sastry, S., MA DLitt (Hist.) (MC)  
 Narasaiah, K., MA (on leave) (Hist.) (MCWB)  
 Krishnaswamiengar, B. S., MA DLitt (MC)  
 Vedavalli, M. C., MA Reader (MCWB)  
 Cheluvrajah, K. H., MA (on leave) (Pub. Admin.) (MC)  
 Nannumdiah, K. S., MA Supt. (MCM)  
 Shankaralingiah, N., MA (Pol.) (MC)  
 Hanumantha Raju, B. H., MA (Pol.) (FGCT)

### Home Science

Lingiah, Miss B. Sushela, MSc MS PhD Prof., Principal (MCWB)

### Indology

Seshadri, M., MA PhD Lond. Prof. (MC)  
 Purushothama, C. G., MA Reader (MC)

### Journalism

Murthy, N. K., MA Reader (MC)

### Kannada

Sreekantaiya, T. N., MA Prof. (UD)  
 Narasimhachar, D. L., MA Prof. (MC)  
 Venkataramappa, K., MA Reader (UD)  
 Rajaratnam, G. P., MA Reader (CC)  
 Javare Gowda, D., MA Reader (UD)  
 Mahadevappa, C., MA Reader (FGCT)  
 Anantharangachar, N., MA Reader (MCWB)

### Mathematics and Statistics

Nagappa, P. H., MSc Lond. (Maths.) Prof. (CC)  
 Ekambaram, S. K., MA Camb. (Stats.) Prof. (MC)  
 Iyengar, K. V., DSc Prof. (CC)  
 Noronha, F. J., MA Lond. Prof., Principal (ICB)

Keshava Hegde, S. V., MSc PhD Zür. Prof., Principal (YCM)

Ramesan, T., MSc Prof. (EC)  
 Habibullah, M., MSc Reader (FGCT)  
 Krishna Sastry, K. V., MA Reader (MC)  
 Munigaviappa, M., MSc Reader (CC)  
 Kamalamma, K. N., MSc Reader (ICB)  
 Ambikadevi, Mrs. P. S., MSc Reader (MCWB)  
 Venkataraman, C. J., MSc Reader (FGCT)

### Persian, see Urdu

### Philology

Manappa Naik, MA Reader (MC)

### Philosophy and Psychology

Naidu, B. K., MA DLitt (Psychol.) Prof. (MC)  
 Krishnan, B., MA Reader (MC)  
 Muddalinganna, V., MA Reader (MCWM)  
 Venkatarayappa, K., MA PhD Reader (MC)  
 Thippeswamy, T., MA Reader (MCWB)  
 Syagali, Miss M. A. (on leave) Reader (MCWB)

### Physics

Bondade, S. B., BA LLB BSc Lond. Prof., Dir. (Collegiate Educn.)  
 Ramaswamy, S., BSc PhD Lond., FIP Prof. (CC)  
 Subbaraya, T. S., DSc Prof., Principal (FGCT)

### Readers

Iyengar, K. S., MSc LLB (YCM)  
 Ziauddin, S., MSc MS (on leave) (CCB)  
 Kuchela, K. N., MSc (on leave) (CCB)  
 Kathyayini, Miss H. S., MSc (MCWB)  
 Paramasivaiah, P., AM Calif., MSc (CC)  
 Venkataswami Setty, P. S., MSc PhD (CC)  
 Madiha, N., MSc (on leave) (YCM)  
 Venkatanarayana Iyer, H. S., MSc (FGCT)  
 Krishnaswamy Rao, B. A., MSc (YCM)

### Political Science, see Hist., Econ. and Pol. Sci.

### Psychology, see Philos. and Psychol.

### Sanskrit

Ramachandra Rao, S., MA Prof. (MC)  
 Marulasiddiah, G., MA PhD Reader (UD)  
 Rangachar, S., MA Reader (MC)  
 Subbaraya, S., MA Reader (CC)  
 Siddapparadhya, M. A., PhD Reader (MC)

### Statistics, see Maths. and Stats.

### Tamil and Telugu

Subbaramappa, K., BA BEd BOL (Telugu) Reader (MC)  
 ..... (Tamil) Reader (CC)

### Urdu, Persian and Arabic

Khan, K. A., MA PhD Camb. Prof. (MC)  
 Jalaluddin, H. M., MA Reader (MC)

**Zoology**

Ramaswami, L. S., DSc Reader (CC)  
 Rajasekhara Setty, M. R., MSc PhD Reader (CC)

**Engineering, Electrical**

Channabasaviah, K., BE MS(EE) *Wis.*  
 Prof., Jt. Dir. of Tech. Educn  
 Raju, W. J. P., BA BE Prof

**ENGINEERING (EC)****Engineering, Civil**

Narasimhiah, D. B., BE MS(Mech)  
 MS(CE) *Kharagpur* Prof.  
 Venkatachala Murthy, H., BSc BE  
 (on leave) Reader  
 Gopalappa, K. V., BE MS Reader

**Engineering, Mechanical**

Narayana Iyengar, B. R., SM(Mech) *M.I.T.*,  
 BSc BE Prof.  
 Thippiah, A. V., BSc BE Reader  
 Gundu Rao, K. V., BE Reader

**ADMINISTRATIVE AND OTHER STAFF**

Planning Officer : H. N. Chamiah, MSc ;  
 Exec. Engineer : D. Nanjappa, BE ; Asst.  
 Engineer : S. A. Bajje Gowda, BE.

Dir. Univ. Prasara : P. Mallikarjunappa,  
 MSc ; Dir. Oriental Res. Inst. : H. Deveerappa,  
 MA ; Dir. of Phys. Educn. : M. G. Vijaya  
 Sarathy, BSc.

WARDENS OF HOSTELS. Maharaja's Coll.

Hostel, Mysore : B. Krishnan ; Central Coll.  
 Hostel, Bangalore : T. H. Venkata Setty ;  
 Engineering Coll. Hostel, Bangalore : K. V.  
 Gundu Rao ; F.G.C. Hostel, Tumkur : B. C.  
 Sreenivasa Murthy ; M.C.W. Hostel, Mysore :  
 E. Sharadamma ; M.C.W. Hostel, Bangalore :  
 Margaret Peter.

**UNIVERSITY COLLEGES**

[(EC), etc. : abbreviations for names of Colleges in Teaching Staff list, *above* ;  
 Pre-Univ., BA, etc., after the name of a coll. means that courses are provided  
 there for Pre-Univ., BA, etc.]

BANGALORE, *Engineering College* (EC) (tel. :  
 2343). BE. Principal—B. R. Narayana Iyengar,  
 SM(Mech) *M.I.T.*, BSc BE.

MYSORE, *Maharaja's College* (MC) (tel. : 754).  
 BA, BSc, MA, MSc, PhD ; Dipls. in Indology,  
 Hindi, French. Principal—C. D. Narasimhiah,  
 MA *Camb.*

MYSORE, *Manasa Gangotri* (Jayalakshmi Vilas  
 Mansion) (tel. : 1144). MA, PhD, MEd. Admin  
 Officer—H. N. Chamiah, MSc.

MYSORE, *Yuvaraja's College* (YCM) (tel. : 592).  
 Pre-Univ., BSc. Principal—S. V. Keshava  
 Hegde, MSc PhD *Zür.*

**AFFILIATED COLLEGES****GOVERNMENT**

BANGALORE, *Agricultural College*. Pre-Pro-  
 fessional, BSc(Agri). Principal—....

BANGALORE, *Bangalore Medical College*. Pre-  
 Professional, MB BS. Principal—M. Authikesa-  
 valu, MB MS, FRCSCan.

BANGALORE, *Bangalore Veterinary College*.  
 BVSc. Principal—K. S. Setty, PhD *Edin.*

BANGALORE, *Central College* (CC) (tel. : 2051).  
 BSc, MA, MSc, PhD ; Dipl. in German. Prin-  
 cipal—P. H. Nagappa, MSc *Lond.*

BANGALORE, *Law College*. BL, ML. Principal  
 —P. Sivashankar, BA LLB.

BANGALORE, *Maharani's College for Women*  
 (MCWB) (tel. : 2796). Pre-Univ., BA, BSc.  
 Principal—Miss B. Susheela Lingiah, MSc MS  
 PhD.

BANGALORE, *Medical School*. (MedS) LMP  
 dipl. Principal—M. Authikesavalu, MB MS,  
 FRCSCan.

BANGALORE, *R.C. College of Commerce*. (ComC)  
 (tel. : 2589). Pre-Univ., BCom. Principal—G.  
 Ramakrishna Reddy, MA PhD.

BANGALORE, *Sri Krishnarajendra Silver Jubilee*  
*Technological Institute*. Pre-Professional, BSc  
 (Tech). Principal—Srinagabhushana, BSc, FTL.

CHITRADURGA, *First Grade College* (FGCChit).  
 Pre-Univ., BA, BSc. Principal—S. L. Rama Rao,  
 BA BCom.

COORC, *Govt. College, Mercara*. Pre-Univ.,  
 BA, BSc, BCom. Principal—C. V. Lobo, MA  
 BT.

HASSAN, *First Grade College* (FGCH). Pre-

Univ., BA, BSc. Principal—K. Seshadri Iyengar, MSc.

MANGALORE, *Govt. Arts College*. Pre-Univ., BA, BSc, BCom. Principal—Umarji, AM Col., MSc.

MANGALORE, *Govt. Training College*. BEd. Principal—S. R. Rohidekar, BA MEd.

MYSORE, *Maharani's College for Women* (MCWM) (tel. : 782). Pre-Univ., BA, BSc. Principal—Miss M. Jayalakshammanni, MA.

MYSORE, *Medical College* (MedC) (tel. : 512).

Pre-Professional, MB BS. Principal—B. N. Linga Raju, MB BS DPH.

MYSORE, *Teachers' College* (TC) (tel. : 764). BEd. Principal—C. Rangachar, BSc MED Leeds.

SHIMOGA, *Sahyadri College* (SCS). Pre-Univ., BA, BSc. Principal—M. Nagaraj, MSc PhD Chic.

TUMKUR, *First Grade College* (FGCT). Pre-Univ., BA, BSc. Principal—T. S. Subbaraya, DSc.

## AFFILIATED COLLEGES

### PRIVATE

BANGALORE, *Acharya Pathasala College of Arts and Commerce*. Pre-Univ., BA, BCom. Principal—N. Ananthachar, MA.

BANGALORE, *All India Institute of Mental Health*. DPM, DMP. Principal—M. V. Govinda Swamy, MA BSc MB BS, FNI.

BANGALORE, *B.M. Srinivasiah College of Engineering*. Pre-Professional, BE. Principal—D. Mukerji, BSc BEng Sheff.

BANGALORE, *College of Arts and Commerce*, Malleswaram. Pre-Univ., BA, BCom. Principal—B. R. Subba Rao, MA.

BANGALORE, *M.E.S. Teachers' College*. BEd. Principal—K. V. Doreswamy, MA BT.

BANGALORE, *Mount Carmel College*. Pre-Univ., BA, BSc. Principal—M. Antoinette, MA LT.

BANGALORE, *National College*. Pre-Univ., BSc. Principal—S. T. Sitaramaiah, MSc.

BANGALORE, *Rashtreeya Vidyalaya Teachers' College*. BEd. Principal—T. N. Krishna Rao, MA MED Leeds, DipEd.

BANGALORE, *St. Joseph's College*. Pre-Univ., BA, BSc, BCom. Principal—Rev. Fr. C. Andrade, BA PhD.

BANGALORE, *Sri Renukacharya College*. Pre-Univ., BSc. Principal—C. N. Adaveesiah, MSc.

BANGALORE, *Vijaya College*. Pre-Univ., BSc. Principal—V. T. Srinivasan, MA.

BELLARY, *Veerasaiva College*. Pre-Univ., BA, BSc, BCom. Principal—D. Mariappa, MA LT MEd.

CHAMARAJANAR, *Intermediate College*. Pre-Univ. Principal—O. N. Kumaraswamy, MSc.

DAVANGERE, *B.D.T. College of Engineering*.

Pre-Professional, BE. Principal—B. P. Gopalkrishna, BSc BE.

KANKAPARA, *The Rural College*. Pre-Univ., BSc. Principal—S. Kariappa, BA.

KONANUR, *B.M. Shetty Intermediate College*. Pre-Univ. Principal—B. S. Bheema Rao, MSc BT.

MANGALORE, *St. Agnes College*. Pre-Univ., BA, BSc. Principal—Mother Stella, MA.

MANGALORE, *St. Aloysius' College*. Pre-Univ., BA, BSc, BCom. Principal—Rev. A. J. Saldanha, BA.

MANGALORE, *St. Ann's Training College*. BEd. Principal—Sister M. Vera.

MYSORE, *D. Banumiah's College of Commerce*. Pre-Univ., BCom. Principal—B. V. Banumaiah, BA BCom.

MYSORE, *Institute of Education*. BEd. Principal—M. P. Nagaraja Rao, MA BT.

MYSORE, *National Institute of Engineering*. Pre-Professional, BE. Principal—A. Seshappa, BA BE.

MYSORE, *St. Philomena's College*. Pre-Univ., BA, BSc. Principal—Rev. Fr. Audiau, BScL.

MYSORE, *Saradavilas Law College*. BL. Principal—K. Narahari Rao, BA BL.

MYSORE, *Sharada Vilas College*. Pre-Univ., BSc. Principal—M. S. Ramaswamy, MA.

NARASIPUR, *Vidyodaya College*. Pre-Univ. Principal—S. Nanjappiah, BA.

PUTTUR, *St. Philomena's College*. Pre-Univ. Principal—Rev. Fr. F. B. Serrao, MA BT.

UDUPI, *M.G.M. College*. Pre-Univ., BA, BSc, BCom. Principal—H. Sunder Rao, MA.

## INTERMEDIATE COLLEGES

BANGALORE, *Intermediate College* (ICB) (tel. : 2215). Pre-Univ. Principal—F. J. Noronha, MA Lond.

CHIKMAGALUR, *Intermediate College* (ICChik). Pre-Univ. Supt.—S. Venkatachala, MSc.

DAVANGERE, *D.R.M. College* (ICD). Pre-Univ. Supt.—N. S. Ramachandriah, MA.

KOLAR, *Intermediate College* (ICK). Pre-Univ. Supt.—T. D. Bhaskar, MSc MS.

MANDYA, *Intermediate College* (ICM). Pre-Univ. Supt.—K. S. Nanjundaiah, MA.



## GENERAL INFORMATION

The Univ. of Mysore was the first univ. to be founded in the Indian states. The two state colls. (Central Coll., Bangalore, and Maharaja's Coll., Mysore) which had long been affiliated to Madras Univ. formed the nuclei of the new univ., and the establ. of the univ. received the sanction of H.H. the Maharaja of Mysore in 1916. A regn. amending and consolidating the provisions of the Mysore Univ. Regn. V of 1916, as amended from time to time, received the assent of H.H. the Maharaja in 1933. Further amendment in 1956 made the univ. an autonomous body.

There are two univ. centres, Mysore and Bangalore, at each of which there are univ. colls. (see p. 528).

The univ. is empowered to affiliate colls. under conditions prescribed in the statutes and ordinances. Inspection of colls. is made by profs. deputed by the syndicate.

**CONSTITUTION.** The principal univ. authorities are the senate, the syndicate, the academic council, the facs., the bds. of studies, the bd. of appts. and the cttee. of finance. The vice-chancellor, who is a full-time officer, is the *ex-officio* chairman of the senate, the syndicate and the academic council. He is also the principal executive officer and the academic officer of the senate and of the council. The executive govt. of the univ. is vested with the univ. syndicate which consists of 14 members. The senate, with a max. strength of 60 members, is in charge of the general organization of the univ. and its admin., incl. the instn. and conferment of degrees. The academic council is the academic authority of the univ. and is responsible for the maintenance of the standards of teaching and examination in the univ.

**INCOME (1960-61).** Estimated receipts : grant from govt. of Mysore, Rs. 80.05 lakhs ; grant from U.G.C., Rs. 39.02 lakhs ; fees, Rs. 31.73 lakhs.

**FACULTIES AND DEANS (1960-61).** *Agric.*, B. Venkoba Rao ; *arts*, Prof. T. N. Sreekantaiya (Kannada) ; *comm.*, B. V. Banumaiah ; *educn.*, Prof. A. C. Deve Gowda ; *engin.*, Prof. B. R. Narayana Iyengar (mech. engin.) ; *law*, P. Shivashankar ; *med.*, . . . . . ; *sci.*, Prof. P. H. Nagappa (maths.) ; *technol.*, Srinagabhushana.

**UNIVERSITY PRECINCT.** The admin. offices of the univ. are located in the Crawford Hall, Mysore.

**LIBRARIES.** Univ., 77,695 vols. ; oriental, 23,846 vols. and 12,916 MSS. Each coll. has its own library.

**LABORATORIES.** At Central Coll., Bangalore : bot., chem., geol., phys., zool. At Maharaja's Coll., Mysore : psychol.

**ADMISSION REQUIREMENTS.** Pre-univ. course : pass in the Mysore S.S.L.C. exam. satisfying the differential minima rules, or in matric. exam. of an Indian univ. or other exam. recog. by the univ.

syndicate as equivalent thereto. BA, BSc courses : pass in the pre-univ. exam. of this or any other Indian univ. recog. by the univ. syndicate. BE course : pass in pre-professional or inter. exam. in sci. of this univ. or an exam. of this or any other univ. accepted by the univ. syndicate as equivalent thereto, or degree in sci. with phys., chem. and maths. as optional subjects, or degree with hon. with maths. and phys. as minor subjects. MB BS course : pass in pre-professional (med.) or pre-med. exam. of the univ., or BSc degree of this univ. with 1 or more of the above subjs., or equivalent qualifs. of other univs. accepted by the syndicate. Provision has been made for the admission to the MB BS course of LMP dipl. holders. They will be eligible for admission to the final exam. 3½ yrs. after admission.

**FIRST DEGREES.** 3 yrs. after pre-univ.—BA, BSc, BCom ; 3 yrs. after pre-professional exam.—BSc(Agri), BSc(Textiles) ; 5 yrs. after pre-univ.—BE (successful candidates are eligible to take the degree after a yr.'s practical trg. in a recog. works or firm), BVSc ; 5½ yrs.—MB BS.

**HIGHER DEGREES.** BEd—1 yr. after BA, BSc, BCom ; MA, MSc—1 yr. after BA (hons.), BSc (hons.) or 2 yrs. after BA, BSc ; MEd—1 yr. full-time or 2 yrs. pt.-time after BEd ; BL—2 yrs. after BA, BSc, BCom ; PhD—3 yrs. after hon. degree or 2 yrs. after master's degree ; DLitt, DSc—5 yrs. after hon. degree or 4 yrs. after master's degree.

**HONORARY DEGREES.** DLitt, DSc, LL.D.

**DIPLOMAS.** Dipl. of licensed med. practitioner (LMP), 4 yrs. after high sch. ; dipls. in French, German, Hindi, each 2 yrs. after S.S.L.C. Postgrad. : Indol., 1 yr. ; psychol. med. (DPM), 2 yrs. after MB BS ; med. psychol. (DMP), 2 yrs. after MA in psychol.

**FEES.** Annual tuition fees : pre-univ., Rs 90 (arts), Rs. 117 (sci.) ; pre-professional, Rs. 135 (agric.), Rs. 180 (engin., textiles), Rs. 225 (med.) ; BA, BCom, Rs. 126 ; BSc(Agri), Rs. 144 ; BSc, Rs. 162 ; BSc(Textiles), BE, Rs. 198 ; BVSc, Rs. 200 ; MB BS, Rs. 400 ; BEd, Rs. 135 ; MA, Rs. 144 ; MSc, Rs. 189 ; MEd, Rs. 180 ; BL, Rs. 252 ; PhD, Rs. 80 (arts), Rs. 120 (sci.).

**TERMS.** Two terms. Term dates (approx.) : arts, sci. and professional colls. (other than med.), June 24 to Oct. 31, Nov. 1 to March 31 ; med. colls., Jan. 9 to March 31, June 24 to Nov. 29.

The usual LANGUAGE OF INSTRUCTION is English. Kannada, the regional lang., has been introduced in the pre-univ. and 1st yr. degree classes as an optional medium.

**STUDENT RESIDENCES.** Univ. hostels at Mysore, Bangalore, Tumkur, Kolar and Davangere ; average hostel expenses for 9 mos., about Rs. 450.

**STAFF RESIDENCES.** There are 8 quarters for

profes. and 19 for other staff of the univ. at Mysore, and 1 principal's quarters at Bangalore.

**RESEARCH.** Facilities for postgrad. res. are provided in educn., humanities, sci. (Manasagangothri, Mysore; Maharaja's Coll., Mysore; Central Coll., Bangalore) and mental sci. (All India Inst. of Mental Health, Bangalore).

**STUDY LEAVE.** Study leave benefits may be granted to teachers of univ. colls. who proceed abroad for advanced studies, taking into acct. the budget provision for this purpose each yr.

**EXTENSION WORK.** An extension lectures cttee. arranges an annual programme. During each yr. a number of lectures are delivered in different parts of the state.

**WOMEN'S EDUCATION.** All degrees except BE are open to women. There are 5 instns. exclusively for women—the Maharani's Coll. and Mt. Carmel Coll. in Bangalore, the Maharani's Coll. in Mysore, St. Agnes Coll. and St. Ann's Trg. Coll., Mangalore.

**STUDENTS' UNIONS.** Students' assocns. are organized in every coll. Debates, lectures and seminars are arranged under their auspices.

**NATIONAL CADET CORPS.** N.C.C. units have been raised in 19 colls. Total strength, about 19 officers and 768 cadets.

**STUDENT HEALTH SERVICE.** All students are examined by the med. officer once a year.

**PUBLICATIONS.** There is a separate dept. of publicns. in the univ. under the charge of a dir. The univ. encourages the publicn. of original works, particularly in Kannada. The univ. also publishes a *Calendar*, an *Extension Lectures Handbook* series, the *Univ. Journal* (2 parts, twice p.a.) and *Prabuddha Karnataka* (2 parts, 4 issues p.a.).

**UNIVERSITY PRESS.** A univ. press has been establd. and will undertake the printing work (incl. publicns.) of the univ.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed* centenary hall of Maharaja's Coll., Mysore; office wing of Coll. of Engineering, Bangalore.

**RETIREMENTS.** K. V. Puttappa (vice-chancellor); L. Sibaiya (phys.); R. Sree (phys.); B. R. Seshachar (zool.); A. Narayana Rao (zool.); M. J. Narayana Iyengar (maths.); B. M. Narayana Rao (maths.); D. M. Subramanyam (Engl.); K. S. Murthi (librarian); H. R. Abdul Majed (Urdu).

**Distribution by Faculties.** *Agric.*, 507; *arts*, 7304; *comm.*, 3959; *educn.*, 497; *engin.*, 2884; *law*, 608; *med.*, 1204; *sci.*, 16,584; *technol.*, 71. Total : 33,708.

*Included in the figures above are :—*

Pre-University students, 11,460.

Postgraduate students, 580.

New admissions, 24,212.

Students from other countries, 29.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . .	27,965	33
Women . .	5,696	14
Total	33,661	47

**DEGREES AWARDED (1959-60).** *Arts* : MA, 75; BA (hons.), 139; BA, 725. *Comm.* : BCom, 270. *Educn.* : BEd, 241; MEd, 7. *Engin.* : BE, 670. *Law* : BL, 148. *Med.* : MBBS, 61. *Sci.* : MSc, 101; BSc (hons.), 134; BSc, 1212; BSc(Agri), 64; BSc(Textiles), 26. *PhD* (all facs.) : 6.

# NAGPUR UNIVERSITY

Founded 1923

Postal Address : Nagpur, Maharashtra State, India

Cables and Telegrams : Nagpur University, Maharashtra State

Telephone : Nagpur 2382

CHANCELLOR—H.E. THE GOVERNOR OF BOMBAY (*ex officio*)

VICE-CHANCELLOR—G. B. BADKAS, MA LLB

TREASURER—P. P. DEO, MA LLB

REGISTRAR—M. S. MODAK, MA PhD

DEPUTY REGISTRAR—V. SHANKARAN, MA

LIBRARIAN—P. S. PHADKE, BA

## TEACHING STAFF

[†=Part-Time ; (AA), (GSc), etc.=symbols for reference to the Colleges listed on pp. 542-543]

### Agricultural Botany

Vaidya, S. B., BAg	Prof. (A)
Chopde, P. R., BSc(Agr)	Lectr. (AA)
Dhodapkar, D. R., MSc(AgrBot)	Lectr. (AA)
Ekbote, A. P., MSc	Lectr. (AA)
Tatwawadi, G. R., MSc(AgrBot)	Lectr. (A)
Lall, S. B., MSc(AgrBot) PhD	Lectr. (A)
Ghawghawe, B. G., BSc(Agr)	Lectr. (A)
Deshmukh, N. Y., BSc(Agr)	Lectr. (A)
Tayyab, M. A., MSc(AgrBot)	Lectr. (A)

### Agricultural Chemistry

Deshpande, T. L., BSc(Agr)	Prof. (A)
Bapat, M. V., MSc	Lectr. (A)
Namjoshi, N. G., BScTech	Lectr. (A)
Bhalkar, D. V., BSc(Agr)	Lectr. (A)
Deoras, C. M., BSc(Tech)	Lectr. (A)
Padole, G. C., MSc	Lectr. (AA)
Joshi, B. G., MSc	Lectr. (AA)
Shrivastava, R. C., MScTech <i>Manc.</i>	Principal (AA)

Bedekar, V. G., MSc	Lectr. (AA)
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### Agricultural Economics

Joglekar, N. M., MA LLB	Prof. (A)
Shingaray, M. K., MA BSc(Agr)	Lectr. (A)
Sohoni, D. K., MA BSc(Agr)	Lectr. (AA)

### Agricultural Engineering and Farm Machinery

Ramekar, H. R., BSc(AgrEngg)	Lectr. (A)
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### Agricultural Extension

Chopde, S. R., MS(AgrExtn) <i>Mich.</i> , BSc(Agr)	Prof. (A)
Kelkar, M. G., BSc(Agr)	Lectr. (A)

Deshpande, U. G., BSc(Agr) MA(Econ)	Lectr. (A)
Rahudkar, W. B., BSc(Agr)	Lectr. (A)
Khaladkar, B. T., MSc(Agr) MS(AgrExtn)	Lectr. (A)
Shirpurkar, G. R., BSc(Agr) MSc	Prof. (AA)
Bhargava, P. N., MSc(Agr)	Lectr. (Sh)

### Agricultural Mathematics, Surveying and Engineering

Vanjari, S. S., BSc(Agr) BSc(AgrEngg)	Lectr. (A)
Tatke, M. V., BSc(AgrEngg)	Lectr. (AA)
Tanksale, V. A., MS(Agr) <i>Kansas</i> , BSc(AgrEngg)	Lectr. (AA)

### Agronomy

Dakshindas, D. G., PhD N.Z., BSc(Agr)	Prof. (A)
Upadhyaya, U. C., MSc(Agr)	Lectr. (A)
Vaidya, C. S., MSc(Agr)	Lectr. (A)
Rahate, V. T., BSc(Agr)	Lectr. (A)
Baporikar, V. R., BSc(Agr)	Lectr. (A)
Bathkal, B. G., BSc(Agr)	Lectr. (A)
Dahiphale, M. V., MSc(Agr)	Lectr. (AA)
Khedekar, P. K., BSc(Agr)	Lectr. (AA)
Mahalle, P. S., BSc(Agr)	Lectr. (AA)
Deshpande, A. M., BScAgr	Lectr. (AA)
Badhe, N. T., BSc(Agr)	Lectr. (AA)
Roy, A. K., MSc(Agr)	Lectr. (Sh)
Shah, K. M., BSc(Agr)	Lectr. (Sh)

### Ancient Indian History and Culture

Mirashi, V. V., MA DLitt	Prof., Hd. of U. Dept.
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**Lectr.** Mande, B. A., MSc  
**Lectr.** Thakre, O. B., MSc  
 Usgaonkar, R. N., MSc PhD  
 Marawar, W. A., MSc

Lectr. (Sc)  
Lectr. (Sc)  
Lectr. (Sc)  
Lectr. (Sc)

Chavan, I. G., PhD MS	Lectr. (A)
Makdani, D. D., MSc(Agr)	Lectr. (A)
Mule, C. N., PhD <i>Texas</i> , MSc(Agr)	Lectr. (AA)

Rafiuddin, S., MA PhD	Asst. Prof. (NMV)
Ahmad Taiyeb, MA	(NMV)
Hamud, M., MA LLB	(NMV)
Namuddin, S., MA DLitt	Prof. (NMV)
Abidi, A. H., MA	Lectr. (VM)
Zohara Begum, Miss, MA	Lectr. (W)
Satyada Nain Durdava, Mrs., MA	Tutor (W)
Murtuza Baig, M. G., MA	Lectr. (SFS)

Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Sr. Lectr. (H)  
 Lectr. (H)  
 Lectr. (H)  
 Lectr. (H)  
 Lectr. (H)  
 Tutor (H)  
 Tutor (H)

Nath, M. C., DSc, FNI, FRIC	Prof., Hd. of U. Dept.
Chakrabarti, C. H., MSc PhD	Lectr.
Hatwalne, V. G., MSc PhD	Lectr.
Mookerjee, S., MSc DPhil	Lectr.

Sr. Lectr. (M)  
Lectr. (M)  
Lectr. (M)  
Lectr. (M)  
Lectr. (M)

Dnyansagar, V. R., MSc PhD	Asst. Prof. (VM)
Bhusari, S. D., MSc	Asst. Lectr. (VM)
Dalal, S. B., MSc	Lectr. (VM)
Nagarkar, M., MSc	Lectr. (VM)
Deshpande, P. K., MSc	Lectr. (VM)
Dhamdhare, R. N., MSc	Lectr. (VM)
Dhore, M. A., MSc	Lectr. (VM)
Theophilus, S. C., MSc	Sr. Lectr. (H)
Beliram, R., MSc	Lectr. (H)
Bhatti, R. S., MSc	Tutor (H)
Belekar, C. S., MSc	Lectr. (M)
Ratnaparkhi, S. B., MSc	Lectr. (M)
Bobde, P. L., MSc	Lectr. (M)
Pahade, M. J., MSc	Lectr. (M)
Kajale, L. B., DSc	Prof., Principal (Sc)
Minashi, M. V., MSc	Asst. Prof. (Sc)
Hazarnavis, Mrs. L. S., MSc	Lectr. (Sc)
Tamhane, S. N., MSc BT	Lectr. (Sc)
Chitalecy, Mrs. S. D., MSc PhD R'dg.	Lectr. (Sc)
Trivedi, Mrs. T. K., MSc BT	Lectr. (Sc)
Paradkar, Mrs. S. A., MSc	Lectr. (Sc)
Kapuskar, A. T., MSc	Lectr. (Sc)
Joshi, S. R., MSc	Lectr. (Sc)
Munshi, K. M., MSc	Sr. Lectr., Principal (GSc)
Vedpathak, D. K., MSc	Sr. Lectr. (GSc)
Bhutada, C. S., MSc	Lectr. (GSc)
Mukherjee, P. K., MSc	Lectr. (SFS)
Deshmukh, P. Z., MSc	Lectr. (Sh)
Sainis, L. B., MSc	Lectr. (Sh)

[illegible]

Asolkar, G. V., PhD <i>Camb. &amp; Nag.</i> , MSc	Prof. (Sc)
Karbelkar, N. V., MSc PhD	Asst. Prof. (Sc)
Karbelkar, M. V., MSc	Asst. Prof. (Sc)
Patwardhan, H. W., MSc	Asst. Prof. (Sc)
Nandapurkar, J. V., MSc	Lectr. (Sc)

Mande, B. A., MSc  
Thakre, O. B., MSc  
Usgaonkar, R. N., MSc PhD  
Marawar, W. A., MSc  
Tikhile, R. G., MSc  
Soman, S. V., MSc  
Kane, Y. D., MSc  
Kate, S. R., MSc  
Konher, M. V., MSc  
Wazalwar, G. B., MSc  
Damle, M. H., MSc  
Jadhav, P. K., MSc  
Kaplay, S. M., MSc  
Karmalkar, B. S., MSc  
Francis, A. M., MSc DPhil  
Joshi, V. W., MSc  
Mchta, R. S., MSc  
Namjoshi, S. Y., MSc  
Mahajan, A. S., MSc  
Bhojar, S. T., MSc  
Deshpande, G. M., MSc  
Bobde, M. V., MSc  
Chitale, R. P., MSc  
Phatak, V. B., MSc  
Warhadpande, B. N., MSc  
Dwivedi, S. M., MSc  
Malik, S. P., MSc  
Chopde, W. D., MSc  
Basu, S. B., MSc  
Khare, R. R., MSc  
Shende, M. A., MSc  
Galkar, N. T., MSc  
Khandekar, A. K., MSc  
Chavan, V. P., MSc  
Marathe, M. G., MSc PhD  
Sahadeo, M. A., MSc  
Panandiwari, M. D., MSc  
Paradkar, M. K., MSc  
Khandekar, P. S., MSc  
Kulkarni, D. B., MSc  
Dube, Y. M., MSc  
Sathe, S. W., MSc  
Keskar, A. Y., MSc  
Paranjpe, M. V., MSc  
Gokhale, N. L., MSc  
Borle, M. N., MSc  
Ghiya, B. J., MSc  
Khatawatkar, S. B., MSc  
Waykole, A. V., MSc  
Tare, V. E., MSc  
Deshpande, W. G., MSc  
Dongre, M. B., MSc  
Bhadang, B. S., MSc  
Kale, M. V., MSc  
Joshi, A. G., MSc  
Sathey, Miss P., MSc  
Deb, Mrs. S., MSc  
Jambholkar, G. M., MSc  
Wekhande, C. R., MSc  
Joshi, W. W., MSc  
Datta Gupta, P., MSc  
Joseph, K. V., MSc  
Jahagirdar, D. V., MSc  
Patki, D. M., MSc  
Gulaxe, S. M., MSc

Asst. Lectr. (VM)  
Asst. Lectr. (VM)  
Sr. Lectr. (GSc)  
Lectr. (GSc)  
Lectr. (GSc)  
Lectr. (GSc)  
Lectr. (GSc)  
Lectr. (W)  
Lectr. (W)  
Lectr. (AM)  
Lectr. (SA)  
Lectr. (SA)  
Lectr. (SFS)  
Lectr. (SFS)  
Lectr. (SFS)  
Lectr. (Sh)  
Lectr. (Sh)

Wasu, V. K., MSc  
 Lothe, A. M., MSc  
 Gajare, D. M., MSc  
 Dastane, S. D., MSc

Lectr. (Sh)  
 Lectr. (Sh)  
 Lectr. (Sh)  
 Lectr. (Ch)

Deshpande, Mrs. K. C., MA  
 Dabadghao, D. B., MA  
 Pimparkar, G. P., MA  
 Singh, V. D., MA

Lectr. (NM)  
 Lectr. (NM)  
 Lectr. (NM)  
 Sr. Lectr. (H)

### Commerce

Tokhi, M. R., MA(Econ) BCom LLB *Luck.*

Prof., Principal (CN)

Chorghade, V. K., MA BT

Asst. Prof. (CN)

Gupta, G. P., MCom PhD

Asst. Prof. (CN)

Bajpai, O. P., MCom

Sr. Lectr. (CN)

Khare, H. K., MCom

Sr. Lectr. (CN)

Jain, V. S., MCom

Sr. Lectr. (CN)

Bokare, M. G., MCom

Sr. Lectr. (CN)

Garge, B. N., MCom

Lectr. (CN)

Charde, S. G., MCom

Lectr. (CN)

Chanserkar, M. A., MCom PhD

Lectr. (CN)

Jain, R. K., MCom

Lectr. (CN)

Aparajit, C. R., MCom

Lectr. (CN)

Munshi, D. M., MCom

Lectr. (CN)

Halve, S. K., MCom LLB

Lectr. (CN)

Badjate, S. P., MCom LLB

Lectr. (CN)

Gawande, P. S., MCom

Lectr. (CN)

Shah, M. M., MA PhD *Bom.*

Prof., Principal (CW)

Chandurkar, V. U., MA BCom

Sr. Lectr. (CW)

Shrinarayan, M. A., BCom

Sr. Lectr. (CW)

Hatekar, D. J., MA

Sr. Lectr. (CW)

Bajaj, M., MCom

Lectr. (CW)

Vora, R. D., MCom

Sr. Lectr. (CW)

Vanmali, B. D., MCom

Sr. Lectr. (CW)

Patil, R. K., MCom

Lectr. (CW)

Belge, M. W., MCom

Lectr. (CW)

Karve, S. V., MCom

Lectr. (CW)

Jagtap, U. Y., MCom

Lectr. (CW)

Chafle, R. S., MCom

Lectr. (CW)

Rajurkar, R. S., MCom

Lectr. (CW)

Deshmukh, N. C., MCom

Principal (Sh)

Khanolkar, A. L., MCom

Sr. Lectr. (Sh)

Lanjewar, M. M., MA BCom LLB

Sr. Lectr. (Sh)

Deshmukh, D. K., MA BCom

Lectr. (Sh)

Kale, W. S., MCom

Lectr. (Sh)

Dhotey, M. G., MCom LLB

Lectr. (Sh)

Tatte, R. G., MCom

Lectr. (Sh)

Bhujade, D. A., MCom

Lectr. (Sh)

Ambalkar, M. P., MCom

Lectr. (Sh)

Sony, R. G., MCom LLB

Sr. Lectr. (GSc)

Kulkarni, K. G., MCom

Lectr. (GSc)

Moharir, M. G., MCom

Lectr. (GSc)

Goyal, P. C., MCom

Lectr. (GSc)

Chandak, B. S., MCom

Lectr. (SA)

Bapat, M. S., MCom

Lectr. (SA)

Gandhi, K. G., MCom LLB

Lectr. (SA)

Sao, B. P., MA MCom

Lectr. (G)

Chauridule, P. B., MA

Lectr. (G)

Tandulkar, R. S., MCom

Lectr. (G)

Datey, S. D., MA LLB

Principal (V)

Lambat, R. S., MA MCom

Lectr. (V)

### Economics

Bai, S. D., MA LLB

Prof. (NM)

Patil, T. A., MA LLB MCom

Lectr. (NM)

Ozarkar, S. R., MA

Lectr. (NM)

### Education

Tamhane, S. N., MA MED

Principal (UTC)

Dhabe, Miss P. W., MA LLB MED

Lectr. (UTC)

Dakshindas, R. V., BSc MEd LLB

Lectr. (UTC)

Karkare, M. G., MA MED

Lectr. (UTC)

Puranik, G. A., BA MED

Lectr. (UTC)

Muley, R. S., MA MED

Lectr. (UTC)

Joshi, Mrs. Yamunabai, MA MED

Lectr. (UTC)

Kashyap, Miss A., MA LT

Lectr. (UTC)

Pandey, M. B., MA BSc MED

Lectr. (UTC)

Deshpande, K. H., MSc L.I.B MED

Lectr. (UTC)

Welankar, P. G., MA MED

Lectr. (UTC)

Kundley, M. B., MA MED

Lectr. (UTC)

Kukde, D. P., MA MED

Lectr. (UTC)

Kalyanpurkar, Mrs. S., BA MED

Lectr. (UTC)

Mehta, Miss V., BSc MED

Lectr. (UTC)

Zade, B. Z.

Carpentry Instr. (UTC)

Sathe, Mrs. N., MA BT

Principal (Dip.TW)

Sumitra, Miss K., BSc BT

Lectr. (Dip.TW)

Deosthale, Mrs. L., MA DipT

Lectr. (Dip.TW)

Deshpande, Y. M., MA BT	Lectr. (Dip.TW)	Rajadhyax, V. R., DipArch	Bom. Reader (GPN)
Paonaskar, Mrs. S., MA BT	Lectr. (Dip.TW)	Patankar, C. G., BE	Asst. Prof. (GPN)
Telang, H. Y., BA MED	Lectr. (Dip.TW)	Dave, M. K., DipArch	Asst. Prof. (GPN)
Ghaskadbi, Miss C., BA BT	Lectr. (Dip.TW)	Shiralkar, P. S., BE	Lectr. (GPN)
Panwalkar, Miss M., BA MED	Lectr. (Dip.TW)	Bhide, V. S., BE	Lectr. (GPN)
Gorey, M. P., BSc MA BT	Lectr. (Dip.TW)	Dabir, M. S., MSc	Lectr. (GPN)
Kalkonde, Mrs. P., BA	Lectr. (Dip.TW)	Khare, D. C., BSc BSc(Tech)	Lectr. (GPN)
Vaidya, Miss P., MA BT	Lectr. (Dip.TW)	Dey, K. C., DipCE	Lectr. (GPN)
Rajderkar, Mrs., BA BT		Mitra, S. K., DipCE	Lectr. (GPN)
	Home Sci. Teacher (Dip.TW)	Kulkarni, H. S., BSc BSc(Tech)	Lectr. (GPN)
Maduskar, Mrs., BA BT		Moharir, S. K., MSc	Lectr. (GPN)
	Music Teacher (Dip.TW)	Dehadrai, V. B.	Lectr. (GPN)
Nagarkar, Mrs. C., BA BT		Surya Narayan Rao, S. V., BSc BE	
	Craft Teacher (Dip.TW)		Asst. Prof. (GPN)
Dakshindas, C. V., MA BT	Lectr. (Dip.TW)	Dhande, B. G., MSc	Lectr. (GPN)
Shukla, M. M., MA MED	Lectr. (Dip.TM)	Tikekar, V. V.	Lectr. (GPN)
Varhadkar, J. S., MA MED	Lectr. (Dip.TM)	Chatterjee, A. K., DipArch	Lectr. (GPN)
Potdar, N. L., MA BT	Lectr. (Dip.TM)	Joshirao, B. K., DipArch	Draftsman (GPN)
Khedkar, M. B., MA MED	Lectr. (Dip.TM)	Karanjkar, W. V., BA	Lectr. (GPN)
Sole, V. P., MSc MED	Lectr. (Dip.TM)	Bijwe, D. B., MSc	Lectr. (GPN)
Joshi, S. G., MA MED	Lectr. (Dip.TM)	Patwardhan, S. V., DipEng	Lectr. (GPN)
Sathe, D. T., MA MED	Lectr. (Dip.TM)	Kochar, G. T., MSc	Lectr. (GPN)
Choudhari, D. D., BSc MED	Lectr. (Dip.TM)	Deshpande, M. R., BE(ElectEng)	Saug.
Boka, K. D., MA DipT	Lectr. (Dip.TM)		Lectr. (GPN)
Potdar, M. L., BSc BT		Ganu, S. P., BSc BE	Lectr. (GPN)
	Craft Teacher (Dip.TM)	Ekbote, A. V., BE	Lectr. (GPN)
Dalal, R. B., BMus Luck., MMus Bom.		Mande, M. B., BE	Lectr. (GPN)
	Music Teacher (Dip.TM)	Dhobe, S. S., BSc BE	Lectr. (GPN)
Munje, R. H., MSc Bom., DipEd Brist.		Naik, M. V., MSc	Lectr. (GPN)
	Principal (GTC)	Pendharkar, P. N., BA BT	Lectr. (GPN)
Shenue, M. K., MA LLB BT	Asst. Prof. (GTC)	Joshi, D. K., BE	Lectr. (GPN)
Barpute, Mrs. Meera, DipPhysEdn Bom., MEd Springfield, MA	Lectr. (GTC)	Khajuria, P. R., BE	Lectr. (GPN)
Veni, V. M., DipPhysEdn Bom., BSc Med		Kholkute, V. N., ME	Lectr. (GPN)
	Lectr. (GTC)	Karnue, D. R., BE	Lectr. (GPN)
Wadegaonkar, J. G., MA BT	Lectr. (GTC)	Karmarkar, R. H., BE	Lectr. (GPN)
Borse, D. G., MA MED	Lectr. (GTC)	Somalwar, G. S., BSc BE	Lectr. (GPN)
Choudhari, V. R., BA BT	Art Teacher (GTC)	Rajgopalan, T., BE	Lectr. (GPN)
Kulkarni, Mrs. Indumati, BA BT	Lectr. (GTC)	Adane, S. D., MA LLB	Asst. Lectr. (GPN)
Dandekar, W. N., BSc MED	Lectr. (GTC)	Thiramallaiha, B. R., BSc BE	Supt. (GPN)
Dani, Mrs. Saral, MA BT	Lectr. (GTC)	Dongre, A. B., BArch	Lectr. (GPN)
Samant, B. B., MA BT PhD	Principal (ABT)	Aras, V. M., BArch	Lectr. (GPN)
Shidore, Mrs. K., MA BT	Prof. (ABT)	Sapkal, R. R.	Lectr. (GPN)
Dixit, N. G., MA BT LLB	Asst. Prof. (ABT)	Lele, P. S., BE	Principal (GPA)
Mankikar, S. P., MA MED	Lectr. (ABT)	Vasudeva Rao, T. L., BSc BE	Lectr. (GPA)
Palkar, G. D., MA BT	Lectr. (ABT)	Vaidya, P. S., BSc BE	Lectr. (GPA)
Khadkikar, S. D., MA BSc BT	Lectr. (ABT)	Vipat, P. N., BE	Lectr. (GPA)
Badhe, S. S.	Craft Instr. (ABT)	Tilak, B. G., BE	Lectr. (GPA)
Damle, H. B., MA BT LLB	Principal (S)	Gopal, M. S., BE	Lectr. (GPA)
Keoliya, N. P., BA MED	Lectr. (S)	Deshpande, M. G., BE	Lectr. (GPA)
Warnekar, M. B., MA BT	Lectr. (S)	Deshpande, D. G., MSc	Lectr. (GPA)
Umathe, V. T., MA BT	Lectr. (S)	Deshpande, S. D., MSc	Lectr. (GPA)
Kawley, V. G., MA	Lectr. (S)	Sethi, T. R., BSc BE	Lectr. (GPA)
Deshkar, Miss Padma, MA BT	Lectr. (S)	Sane, S. C., MS III., BSc(Tech)	Lectr. (GPA)
Jha, S. K., BSc Med	Principal (JT)	Datar, V. L., BSc BE	Asst. Lectr. (GPA)
Akolkar, G. V., MA BT	Lectr. (JT)	Oza, P. P., BE	Lectr. (GPA)
Purandare, P. G., MA MED	Lectr. (JT)	Agrawal, D. C., BE	Lectr. (GPA)
Kulkarni, D. L., BCom MED	Lectr. (JT)	Patil, S. A., BE	Lectr. (GPA)
Indapurkar, C. D., BA MED	Lectr. (JT)	Yusuf, M., DipCE	Asst. Lectr. (GPA)
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Walimbe, P. S., BSc MED	Lectr. (JT)	Jog, M. B., MSc	Asst. Lectr. (GPA)
		Bhole, V. S., BE	Asst. Lectr. (GPA)
		Rao, Mrs. Shalini, MA	Asst. Lectr. (GPA)
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		Khare, S. T., ME	Prof. (E)
		Joshi, M. G., BSc(Engg)	Prof. (E)

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 Pandit, G. S., BE  
 Basu, F., BE  
 Jayavidyacharya, C., BSc BE  
 Gupte, R. B., MSc  
 Palimkar, K. Y., BE  
 Attarde, S. T., MSE *Mich.*, BE  
 Khadilkar, M. P., BE  
 Madan, M. R., BE  
 Pathak, M. W., BSc BE  
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 Dhake, A. M., BE  
 Prachand, N. M., BE  
 Kawadkar, M. K., DipEng  
 Khanzode, R. B., DipEng

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 Vaidya, Mrs. S., MA  
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 PhD  
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 Chawhan, Mrs. G. S., MA

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 Mitra, S. N., MA  
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 Vaidya, L. W., MA  
 Vaidya, K. M., MA LLB  
 Kanaday, V. R., MA  
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 Pande, D. B., MA  
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 Guha, R. C., MA

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 Lectr., U. Dept.

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 Lectr. (M)  
 Tutor (M)

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 Lectr. (W)  
 Lectr. (W)

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 Thakre, K. R., BSc(Agr)  
 Bhamburkar, B. L., BSc(Agr)  
 Kadam, M. V., MSc(Agr)  
 Tale, Y. M., MSc(Agr)

Prof. (A)  
 Lectr. (A)  
 Lectr. (A)  
 Lectr. (AA)  
 Lectr. (AA)

**French**

Sister Leonie

Lectr. (SFS)

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 Ranade, Mrs. S., MA  
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 Muthal, B. L., MA

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 Lectr. (VM)  
 Lectr. (VM)  
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 Lectr. (W)  
 Lectr. (Ch)

**Geology**

Sripada Rao, K., MSc, FGS, FNI

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 Saraf, B. K., MSc

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 Lectr. (M)  
 Lectr. (M)

**Hindi**

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 Verma, S. S., MA  
 Shrivastava, V. P., MA  
 Singh, J. S. M., MA  
 Jupta, G. N., MA  
 Jagaddeo, Mrs. Tara, MA  
 Shrivastava, R. K., MA  
 Sharma, G. D., MA  
 Oshi, V. H., MA  
 Moholkar, M. R., MA  
 Dange, S. A., MA  
 Hare, L. N., MA  
 Mall, Mrs. K., MA  
 Bais, J. B., MA  
 Jain, Miss Shanta, MA  
 Verma, K. K., MA BT LLB  
 Sharma, R. D., MA  
 Sandhe, Mrs. Indumati, MA  
 Shrivastava, R. K., MA  
 Pathak, K. K., MA LLB PhD  
 Sharma, R., MA

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 Tutor (W)  
 Lectr. (AM)  
 Lectr. (SFS)  
 Principal (G)  
 Lectr. (G)  
 Lectr. (A)  
 Lectr. (SA)  
 Reader, U. Dept.  
 Lectr., U. Dept.

**History**

Deoras, V. R., MA PhD  
 Gupta, Miss Chandravati, MA

Prof. (NM)  
 Lectr. (NM)

Mishra, P. L., MA

Lectr. (NM)

Buradkar, M. P., MA PhD

Lectr. (NM)

Gedam, T. V., MA LLB

Lectr. (NM)

Ramalingam, J., MA

Lectr. (H)

Keshathwar, K. M., MA

Lectr. (H)

Kothare, Miss S. S., MA

Lectr. (C)

Sheorey, S. D., MA

Lectr. (C)

Telang, P. S., MA

Asst. Prof. (VM)

Mahaley, K. L., MA

Lectr. (VM)

Deshpande, A. D., MA

Lectr. (AM)

Rodregues, Miss L., MA

Lectr. (SFS)

Iyengar, Miss S., MA PhD

Sr. Lectr. (W)

Mani, Mrs. Kamala, MA

Lectr. (W)

Kaul, H. M., MA

Lectr. (G)

Malleshwara Rao, J., MA

Lectr., U. Dept.

Acharya, K. A., MA BT MEd

Lectr. (SA)

Kadam, G. B., MA

Lectr. (Sh)

**Home Science**

Limaye, Mrs. K. S., BSc

Lectr. (C)

Dantale, Miss S. R., BSc

Lectr. (C)

Godbole, Miss S., BSc

Lectr. (W)

Garde, Miss N., BSc

Lectr. (W)

Joshi, Miss Sheela, BSc

Lectr. (W)

Basrur, Miss Sona, BSc BEd

Lectr. (W)

Sinha, Miss Kanta, MA BSc LLB

Lectr. (W)

Bhambal, Mrs. R., MSc Syr., BA

Lectr. (W)

Kothekar, Miss S. V., MA

Lectr. (W)

Deb, Miss Shebali, MSc

Tutor (W)

Pradhan, Miss Saral, BA BSc

Grad. Asst. (W)

**Horticulture**

Kathale, C. N., MSc(Agr)

Lectr. (AA)

Kunte, Y. N., MSc(Agr)

Lectr. (A)

**Journalism**

Koilpillai, V., BA MS

Lectr. (H)

Eapen, K. E., BA LLB MS

Sr. Lectr. (H)

**Latin**

Nazareth, Rev., MA

Lectr. (SFS)

**Law**

Deshpande, G. T., MA LLB

Lectr. (Sh)

Chaubal, V. B., BA LLB

Lectr. (Sh)

Agrawal, N. S., BA LLB

Lectr. (Sh)

Bobde, G. C., BA LLB

Lectr. (Sh)

Sinha, D. R., BA LLB

Lectr. (Sh)

Janardhan Rao, S., LL.M Harv.

Principal (LC)

Athale, A. G., BA LLM

Lectr. (LC)

Wad, S. B., MA LLM

Lectr. (LC)

Karekar, P. N., BA

Lectr. (LC)

Padhye, V. R., BSc LLB

Lectr. (LC)

Gadkari, P. B., BA LLB

Lectr. (LC)

Ranade, B. B., BA LLB

Lectr. (LC)

Quazi, M. M., BA LLB

Lectr. (LC)

Sohoni, W. A., MA LLB

Lectr. (SA)

Karnik, P. G., BA LLB

Lectr. (SA)

Godbole, D. G., BA LLB

Lectr. (SA)

**Library Science**

Hote, D. M., BA DipLibSc

Lectr., U. Dept.



Deshmukh, P. D., BA DipLibSc  
 Deshmukh, M. G., BA DipLibSc  
 Kulkarni, S. M., BA DipLibSc

Lectr.  
 Lectr.  
 Lectr.

### Local Self-Government and Public Administration

Murti, V. S., MPA *Harv.*, MA  
 Reader, Hd. of U. Dept.  
 Pundlik, D. A., MB BS DPH †Lectr.  
 Singh, V., BSc(Eng) †Lectr.  
 Dave, S. L., MA Lectr.  
 Deshmukh, M. K., MA BSc LLB Lectr.  
 Valsan, E. H., MA Lectr.  
 Kolhekar, R. J., BA LLB †Lectr.

### Marathi

Kolte, V. B., MA PhD LLB Principal (NM)  
 Pandit, B. S., MA Asst. Prof. (NM)  
 Dolke, G. M., MA Lectr. (NM)  
 Muktibodh, S. M., MA Lectr. (NM)  
 Pendse, S. D., MA MOL PhD Sr. Lectr. (H)  
 Deshpande, A. N., MA PhD Lectr. (H)  
 Ayachit, R. P., MA Lectr. (H)  
 Pandharipande, S. L., MA Prof., Principal (C)  
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 Kulkarni, S. M., MA Sr. Lectr. (C)  
 Baitule, M. K., MA Lectr. (C)  
 Varadpande, V. K., MA Lectr. (M)  
 Purohit, V. S., MA Tutor (M)  
 Paranjpe, B. S., MA Lectr. (C)  
 Marathe, Mrs. K., MA Sr. Lectr. (W)  
 Kolarkar, Miss Kusum, MA Tutor (W)  
 Sathe, Mrs. S. A., MA Lectr. (Sc)  
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 Pathak, Y. M., MA LLB Sr. Lectr. (N)  
 Kolte, Mrs. U., MA Lectr. (N)  
 Pawar, G. M., MA Asst. Lectr. (VM)  
 Jadhao, R. G., MA Asst. Lectr. (VM)  
 Bhandarkar, Mrs. P., MA Lectr. (VM)  
 Natu, Mrs. M. G., MA Asst. Prof. (VM)  
 Peshkar, K. V., MA Lectr. (VM)  
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 Pande, Mrs. S., MA Lectr. (Sh)  
 Bhalerao, M. J., MA Lectr. (Sh)  
 Kelkar, N. R., MA Bom., BT Sr. Lectr. (SA)  
 Kulkarni, B. B., MA Lectr. (SA)  
 Mohogaonkar, V. P., MA LLB Prof., Principal (R)

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 Jahagirdar, B. R., MA Lectr. (GSc)  
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 Kalnawat, S. K., MA Lectr. (AM)  
 Chavan, H. E., MA Lectr. (B)  
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 Ghatoley, R. N., MA BT Lectr. (Ch)  
 Gurjar, K. D., MA BT Lectr. (Ch)  
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Thosar, Y. V., MSc  
 Kulkarni, R. S., MSc  
 Verma, Miss S., MA  
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 Nandanwar, L. K., MSc

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 Lectr. (SFS)  
 Lectr. (AM)  
 Lectr. (SA)  
 Lectr. (Sh)  
 Lectr. (Ch)

### Music

Khardenavis, P. N.  
 Kokje, A. K.  
 Ayalwar, G. L., MMus *Luck.*  
 Wazalwar, D. G.  
 Kaslikar, M. B., BA  
 Navasalkar, M. V., BA  
 Kaslikar, P. B., BA BT MMus

Lectr. (NM)  
 Lectr. (NM)  
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 Lectr. (C)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (AM)

### Pali and Prakrit

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 Killedar, Mrs. P. S., MA  
 Parashar, Miss Usha, MA  
 Kulkarni, I. R., MA

Lectr. (NM)  
 Lectr. (NM)  
 Lectr. (NM)  
 Lectr., U. Dept.

### Pharmacy

Venkatsubbarao, A. S., BSc MPharm

Lectr.-in-Charge, U. Dept.  
 Deshmukh, V. K., MSc Lectr.  
 Deodhar, P. B., MSc Lectr.  
 Kelkar, A. K., MSc LLB Lectr.  
 Godbole, U., MSc Demr.  
 Khare, H. K., MCom †Lectr.  
 Mukerjee, S., MSc PhD †Lectr.

**Philosophy**

Patol, D. M., MA	Prof. (NM)
Deshmukh, C. D., MA PhD Lond.	
	Asst. Prof. (NM)
Sathe, A. B., MA BT	Lectr. (NM)
Mookerjee, S., MA	Lectr. (NM)
Moses, D. G., MA <i>Madr.</i> , AM PhD <i>Col.</i>	
	Prof., Principal (H)
Joseph, W. N., MA	Sr. Lectr. (H)
Sinsh, D. B., MA PhD	Sr. Lectr. (H)
Padhye, P. D., MA	Lectr. (H)
Deshpande, B. R., MA LLB	Sr. Lectr. (C)
Sawangikar, B. K., MA	Lectr. (C)
Bakhale, S. W., MA	Lectr. (C)
Dravid, N. S., MA	Lectr., U. Dept.
Gautam, Miss P., MA	Sr. Lectr. (W)
Hatwalne, Mrs. P., MA	Lectr. (W)
Vaidya, Miss Leela, MA	Lectr. (W)
Londhey, D. G., MA <i>Bom.</i> , PhD <i>Leip.</i>	
	Prof., Principal (N)
Navalekar, Mrs. S., MA BT	Lectr. (N)
Brahmankar, A. M., MA	Lectr. (N)
Akolkar, V. V., MA	Prof. (VM)
Deshpande, D. Y., MA	Asst. Prof. (VM)
Jakate, D. S., MA	Lectr. (VM)
Seth, S. K., MA	Lectr. (VM)
Bunt, Miss S. S., MA	Sr. Lectr. (Sh)
Murkute, R. B., MA LLB	Sr. Lectr. (SA)
Chincholkar, L. G., MA	Lectr. (SA)
Joglekar, S. D., MA	Lectr. (R)
Joglekar, S. D., MA	Lectr. (GSc)
Pawar, T. J., MA	Lectr. (B)
Chati, H. L., MA BSc LLB	Lectr. (G)
Kulkarni, B. R., MA LLB	Lectr. (AM)
Balaguer, M. M., MA PhD	Principal (SFS)
Pataskar, N. R., MA	Lectr. (Ch)

**Physics**

Joglekar, M. S., MSc	Asst. Prof. (Sc)
Potdar, N. B., MSc	Asst. Prof. (Sc)
Kher, V. G., MSc PhD	Asst. Prof. (Sc)
Bapat, R. N., MSc	Asst. Prof. (Sc)
Ayachit, V. G., MSc	Lectr. (Sc)
Nandanpawar, L. S., BSc LLB	Lectr. (Sc)
Khandekar, P. V., MSc	Lectr. (Sc)
Agrawal, G. S., MSc	Lectr. (Sc)
Chinchawadkar, S. K., MSc	Lectr. (Sc)
Nadgowda, K. S., MSc BT	Lectr. (Sc)
Tankhiwale, A. V., MSc	Lectr. (Sc)
Apte, U. D., MSc	Lectr. (Sc)
Upasani, K. R., MSc	Lectr. (Sc)
Muley, Miss P. T., MSc	Lectr. (Sc)
Mone, M. T., MSc	Lectr. (Sc)
Tole, P. B., MSc	Lectr. (Sc)
Deshpande, G. T., MSc	Lectr. (Sc)
Dabadghon, S. B., MSc	Lectr. (Sc)
Gupta, C. H., MSc	Lectr. (H)
Tatke, P. A., MSc	Lectr. (H)
Shrivastava, V. P., MSc	Lectr. (H)
Singh, S. P., MSc	Lectr. (H)
Menon, Miss S., MSc	Demr. (H)
Sheshaya, P., MSc	Demr. (H)
Anaokar, M. V., MSc	Demr. (H)
Prasad Rao, V. P., MSc	Sr. Lectr. (H)

Pendse, R. N., MSc	Sr. Lectr. (M)
Godbole, D. M., MSc	Lectr. (M)
Londhe, M. D., MSc	Lectr. (M)
Joshi, B. G., MSc	Lectr. (M)
Narayanan, V., MSc	Lectr. (M)
Chatterjee, S. C., MSc	Lectr. (M)
Datar, V. D., MSc	Lectr. (M)
Pande, M. B., MSc	Lectr. (M)
Kshirsagar, P. G., MSc	Lectr. (M)
Dabir, A. K., MSc	Lectr. (M)
Godbole, A. G., MSc	Lectr. (M)
Jamthe, N. M., MSc	Lectr. (M)
Patil, R. M., MSc	Tutor (M)
Chinchalkar, S. W., DSc	Prof. (VM)
Kelkar, M. G., MSc	Asst. Prof. (VM)
Nafde, R. L., MSc	Lectr. (VM)
Chakradeo, A. C., MSc	Lectr. (VM)
Pande, S. S., MSc	Lectr. (VM)
Apte, G. G., MSc	Lectr. (VM)
Deo, Miss Sindhu, MSc	Lectr. (VM)
Patil, S. G., MSc	Lectr. (VM)
Deshmukh, K. G., MSc	Lectr. (VM)
Deshmukh, B. T., MSc	Lectr. (VM)
Patki, B. A., MSc	Lectr. (VM)
Paranjapey, Y. R., MSc	Lectr. (VM)
Ghike, G. A., MSc	Lectr. (VM)
Bagde, M. K., MSc	Lectr. (VM)
Borle, W. M., MSc	Lectr. (VM)
Watkar, W. W., MSc	Lectr. (VM)
Raichur, S. B., MSc	Asst. Lectr. (VM)
Gonnagar, V. T., MSc	Asst. Lectr. (VM)
Nair, K. G., MSc	Sr. Lectr. (GSc)
Deshmukh, D. J., BSc	Lectr. (GSc)
Ghan, P. D., MSc	Lectr. (GSc)
Shegokar, R. G., MSc	Lectr. (GSc)
Roy, G. N., MSc	Lectr. (GSc)
Wani, P. B., MSc	Lectr. (GSc)
Shukla, Mrs. Vijaya, MSc	Lectr. (W)
Pujare, M. A., MSc	Lectr. (AM)
Deshmukh, R. M., MSc	Lectr. (SA)
Deshpande, V. M., MSc	Lectr. (SA)
Vaidyanathan, C. R., BSc	Lectr. (SFS)
Tole, P. B., MSc	Lectr. (SFS)
Deshpande, G. T., MSc	Lectr. (SFS)
Joshi, V. A., MSc	Lectr. (Ch)
Gharat, G. K., BSc(Agr)	Lectr. (A)
Deshpande, G. P., MSc	Lectr. (AA)
Zamwar, C. K., MSc	Lectr. (Sh)
Supe, D. S., MSc	Lectr. (Sh)
Sardesai, C. N., MSc	Lectr. (Sh)
Patwardhan, S. S., MSc	Lectr. (Sh)
Zambre, S. N., BSc	Demr. (Sh)

**Plant Pathology**

Asthana, R. P., DIC, MSc PhD	Prof., Principal (A)
Narke, R. A., MSc	Lectr. (A)
Wankar, B. N., MSc(Agr)	Lectr. (A)
Shukla, V. N., MSc(Agr)	Lectr. (AA)

**Political Science**

Buradkar, M. P., MA PhD	Lectr. (NM)
Kashikar, S. G., MA	Lectr. (NM)
Nanekar, S. R., MA	Lectr. (NM)

Kulkarni, G. M., MA	Sr. Lectr. (H)
Deshpande, M. T., MA	Lectr. (H)
Aher, B. Y., MA	Lectr. (H)
Tijare, R. A., MA	Sr. Lectr. (C)
Sumbha, G. M., MA	Lectr. (C)
Pendharkar, Miss P., MA	Lectr. (C)
Joshi, P. L., MA	Lectr. (C)
Patwardhan, N. N., MA	Lectr. (C)
Joshi, B. K., MA	Lectr. (VM)
Kane, P. S., MA	Lectr. (VM)
Bhuskute, Miss S., MA	Sr. Lectr. (W)
Shastri, Mrs. T., MA	Lectr. (W)
Rudra, Miss Kavita, MA	Lectr. (W)
Shastri, C. Y., MA	Sr. Lectr. (Sh)
Muley, P. G., MA LLB	Lectr. (R)
Joglekar, K. S., MA	Sr. Lectr. (SA)
Mahajani, M. E., MA	Lectr. (SA)
Somwanshi, G. M., MA BT	Sr. Lectr. (N)
Nemavarkar, J. G., MA LLB	Lectr. (N)
Tungar, Miss H. S., MA	Lectr. (N)
Bhagwat, P. N., MA	Sr. Lectr. (GSc)
Deshmukh, V. W., MA	Lectr. (B)
Deshpande, N. R., AM PhD Col., MA LLB	Prof., Hd. of U. Dept.
Jagirdar, P. J., MA	Lectr.
Shrivastava, N. N., MA	Lectr.
Ranade, R. V., MA	Lectr.
Potdar, S. Y., MA	Lectr. (AM)
Kini, N. G., MA	Lectr. (SFS)
Muley, D. S., MA	Lectr. (G)
Mahajan, G. H., MA	Principal (Ch)
Patil, J. E., MA	Lectr. (Ch)

### Psychology

Shesh, D. B., MA PhD	Sr. Lectr. (H)
Dhoble, A. J., MA	Lectr. (H)
Vaidya, S. S., MA	Demr. (H)
Bapat, V. W., MA	Sr. Lectr. (C)
Pandharipande, P. S., MA	Lectr. (C)
Bhagwafwar, P. A., MA	Lectr. (C)
Awasthi, M. D., MA	Lectr. (NM)
Pendharkar, G. R., MA BT	Lectr. (NM)
Valunjkar, Miss Sindu, MA	Asst. Lectr. (NM)
Pandit, R. V., MA	Lectr. (VM)
Jogawar, V. V., MA	Lectr. (VM)
Jathar, Miss U. S., MA	Asst. Lectr. (VM)

### Public Administration, see Local Self-Government

### Sanskrit, Pali and Prakrit

Karambelkar, V. W., MA PhD	Prof. (NM)
Limaye, S. K., MA	Lectr. (NM)
Deoskar, S. G., MA	Lectr. (NM)
Killedar, S. J., MA	Lectr. (NM)
Bhandari, V. S., MA	Lectr. (NM)
Vaidya, M. G., MA	Sr. Lectr. (H)
Varadpande, D. V., MA	Lectr. (C)
Joshi, K. R., MA	Lectr. (C)
Kelkar, Mrs. I., MA	Sr. Lectr. (W)
Buit, Miss K., MA	Tutor (W)
Warnekar, S. B., MA	Lectr. (N)
Ashtikar, B. R., MA	Lectr. (VM)
Kulkarni, G. G., MA	Lectr. (VM)

Gaikwad, S. L., MA	Lectr. (Sh)
Joshi, G. D., MA LLB	Sr. Lectr. (SA)
Dange, S. A., MA	Sr. Lectr. (GSc)
Hardas, N. V., MA	Lectr. (AM)
Deshpande, G. T., MA LLB DLitt	Reader, U. Dept.

### Sociology

Vaidya, N. S., MA LLB	Lectr. (H)
Bhandarkar, P. L., MA LLB	Lectr. (H)
Pingle, M. D., MA BSc	Lectr. (H)
Wilkinson, T. S., MA Agra, PhD Duke	Sr. Lectr. (H)
Augustine, J., MA	Lectr. (H)
Dhanagare, D. N., MA	Lectr. (Sh)

### Statistics

Rao, K. Sheshgiri, MSc	Lectr. (Sc)
Deshpande, J. V., MSc	Lectr. (Sc)
Rao, P. Vishambar, MA	Lectr. (Sc)
Hege, Miss V. S., MSc	Lectr. (Sc)
Saraf, W. S., MSc	Lectr. (Sc)

### Technology (LIT)

Mene, P. S., DIC, BSc PhD Lond.	Prof., Dir
Mehta, T. N., DIC, BA BSc PhD Lond.	Prof
Sardesai, V. V., BE(Mech&Elect) Bom.	Reader
Behere, S. N., MSc BT	Lectr.
Rao, C. V. N., BSc MSc(Tech)	Lectr.
Rao, Rajagopala P., MSc	Lectr.
Barhanpurkar, G. H., BSc(Tech)	Lectr.
Tulpule, V. S., MSc	Lectr.
Shrivastava, G. R., MSc	Lectr.
Subramanian, N., BSc(Chem) MSc(Tech)	Lectr.
Venkatachalam, K. A., MSc PhD	Lectr.
Dharam, K., BSc(Tech)	Lectr.
Kalele, M. G., DipEng(Mech&Electr)	Lectr.
Khankhoje, P. S.	†Lectr.

### Urdu

Naimuddin, S., MA DLitt	Prof. (NM)
Rafiuddin, S., MA PhD	Asst. Prof. (NM)
Hamid, M., MA LLB	Lectr. (NM)
Ahmad, T., MA	Lectr. (NM)
Khan, M. R., MA	Lectr. (NM)
Zoharabegum, Miss, MA	Lectr. (W)
Saiyada Nain Durdana, Mrs., MA	Tutor (W)
Shaik, I. B., MA	Lectr. (VM)
Abidi, A. H., MA	Lectr. (VM)
Khan, M. M., MA	Lectr. (SFS)

### Veterinary Science

Sarma, V. N., MVSc	Prof., Principal (Vet)
Raikar, R. K., BSc(Vet)	Prof. (Vet)
Hawaladar, M. K.	Prof. (Vet)
Kulkarni, M. V., BSc(Vet)	Asst. Prof. (Vet)
Joshirao, M. K., BSc(Vet)	Asst. Prof. (Vet)
Pandit, R. V., BVSc	Asst. Prof. (Vet)
Shingatgen, M. K., BSc(Vet)	Asst. Prof. (Vet)
Vaishnav, T. N., BSc(Vet)	Asst. Prof. (Vet)
Desai, R. T., BSc(Agr)	Lectr. (Vet)
Kulkarni, V. A., BSc(Vet)	Lectr. (Vet)
Jadpatrikar, N. S., BSc(Vet)	Lectr. (Vet)
Velhankar, D. P., BSc(Vet)	Lectr. (Vet)

Bhandan, R. M., BSc(Vet)  
 Shitguppi, BSc(Vet)  
 Ghosh, R. K., GBVc  
 Deb, R. N., GVSc  
 Harshey, D. B., GBVc

Lectr. (Vet)  
 Lectr. (Vet)  
 Lectr. (AA)  
 Lectr. (A)  
 Lectr. (A)

**Medicine, Preventive and Social**  
 Ramadwar, D. K., MB BS MSc(Med)  
 DPH DIH DTM  
 Anwikar, A. K., MPH

Prof.  
 Reader

### Zoology

Khatib, S. M. H., MSc PhD  
 Murthy, K. V. R., MSc  
 Saxena, A. B., MSc  
 Rege, M. S., MSc PhD  
 Deshpande, K. S., MSc LLB  
 Jangt, B. S., MSc PhD  
 Rao, S. N., MSc PhD  
 Indurkar, A. K., MSc  
 Ramaswamy, K. R., MSc  
 Thakur, R. S., MSc  
 Jayaraj, M. S., MSc  
 Rangnekar, P. V., MSc PhD  
 Dahake, D. L., MSc  
 Deshpande, K. S., MSc  
 Patki, L. R., MSc  
 Sharma, N. P., MSc  
 Velare, V. B., MSc  
 Motghare, D. S., MSc  
 Sharma, N. P., MSc  
 Patki, L. R., MSc  
 Gopalkrishna, A., MSc PhD  
 Daware, P. D., MSc  
 Wajape, R. W., MSc  
 Gurjar, K. G., MSc  
 Phansalkar, R. B., MSc  
 Deshpande, P. V., MSc  
 Murhar, B. M., MSc  
 Jajule, D. S., MSc  
 Dhabalia, M. P., MSc

Prof. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Lectr. (Sc)  
 Sr. Lectr. (H)  
 Lectr. (H)  
 Lectr. (H)  
 Prof. (VM)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (VM)  
 Lectr. (Sc)  
 Sr. Lectr. (GSc)  
 Lectr. (GSc)  
 Lectr. (GSc)  
 Lectr. (M)  
 Lectr. (M)  
 Lectr. (M)  
 Tutor (M)  
 Lectr. (Sh)

### Midwifery and Gynaecology

Devi, Mrs. P. K., MB MS, FRCS  
 Anjaneyulu, R., MD BS DGO  
 Dalal, Mrs. N. D., MB BS DGO  
 Bakhru, Miss S. J., MB BS  
 Shastrakar, Miss V. D., MB BS MO  
 Dhabadghao, Miss R. B., MB BS

Prof.  
 Reader  
 Lectr.  
 Tutor  
 Tutor

Resident Obstetrician

Banbrjee, Miss R. B., MB BS  
 Muzumdar, Miss S. B., MB BS  
 Tulpule, Miss N. P., MB BS

Jr. Registrar  
 Jr. Registrar  
 Jr. Registrar

### Ophthalmology

Kesavachar, K. R., MSc MB BS DO  
 DOMS  
 Ghate, M. L., MB BS DO  
 Ishwarchandra, MB BS MS DO

Prof.  
 Lectr.

(Eye) Med. Officer

### Pædiatrics

Chakravarti, Miss A., MB BS DCH  
 Khandelwal, M. K., MB BS DCH

Jr. Lectr.  
 Jr. Registrar

### Pathology

Junnarkar, R. V., BSc MD BS  
 Solanki, B. R., MB BS MSc(Med)  
 Sharma, K. D., MB BS MSc(Med) *Madr.*

Prof.  
 Reader  
 Reader

Patoria, N. K., MB BS  
 Paithankar, M. T., BSc MB BS  
 Moghe, K. V., MB BS MSc(Med)  
 Hadas, Mrs. U. D., MB BS MSc(Med)

Jr. Lectr.  
 Jr. Lectr.  
 Jr. Lectr.  
 Curator

Tiwaskar, H. V., MSc

Bio-Chemist

## MEDICINE (M)

### Anatomy

Robert, S. L., DTM, FRFPGlas  
 Kolter, D. T., BSc MB BS MSc(Med)  
 Kane, M. G., MB BS  
 Hardas, K. P., MB BS MSc(Med)  
 Kate, B. R., MB BS  
 Kadasne, D. K., MB BS

Prof.  
 Reader  
 Lectr.  
 Jr. Lectr.  
 Jr. Lectr.  
 Jr. Lectr.

### Medicine

Berry, J. N., MD DCH, MRCP  
 Lele, R. D., MB BS, MRCP  
 Subhedar, B. J., MD BS  
 Gowardhan, V. M., MB BS DTM  
 Bidwai, P. S., MD BS  
 Jain, K. L., MB BS  
 Madan, M. S., MB BS  
 Bhargava, H. S., MD BS  
 Deshmukh, P. Y., MB BS  
 Choubey, B. S., MB BS

Prof.  
 Reader  
 Lectr.  
 Med. Officer  
 Reader  
 Jr. Lectr.  
 Resident Physician  
 Med. Officer  
 Jr. Lectr.  
 Jr. Registrar

### Medicine, Forensic

Rosario, E. F., MB BS  
 Franklin, C. A., MB BS

Lectr.  
 Jr. Lectr.

### Pharmacology

Jindel, M. N., MD BS  
 Tiwari, N. M., BSc MB BS MSc(Med)  
 Deshpande, V. R., MB BS MSc(Med)  
 Dashputra, P. G., MB BS

Prof.  
 Reader  
 Lectr.  
 Jr. Lectr.

### Physiology

Sen, S. C., MB MSc DTM  
 Vaishwanar, P. S., MB BS MSc(Med)  
 Khandare, S. S., MB BS MSc(Med)  
 Vaishwanar, Mrs. Indu, MSc  
 Sood, J. L., MB BS  
 Deshpande, J. N., BSc MB BS  
 Shukla, R. D., MB BS

Prof.  
 Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Demr.

### Radiology

Tungar, S. V., MB BS  
 Kathale, B. G., MB BS

Sr. Radiologist  
 Jr. Radiologist

### Surgery

Deodhar, D. S. C., MS, FRCS  
 Gharpure, V. G., MB MS  
 Wankar, V. N., MB BS

Prof.  
 Lectr.  
 Lectr.

Bhagwat, D. S., MB BS	Jr. Registrar	<b>Tuberculosis</b>	
Marwah, V., MB BS, FRCS	Reader	Mazumdar, S. S., MB BS DTD	
Deshmane, J. V., MB MS	Tutor		
Dube, M. S., MB BS	Sr. Anaesthetist	Dighe, R. C., MB BS DTD	Sr. Med. Officer
Chincholkar, V. S., MB BS	Jr. Lectr.	Kunte, A. B., MB BS	Med. Officer
Deshmukh, G. M., MB BS		Namjoshi, G. N., MB BS	Pathologist
Med. Officer in charge of Div. of Ear, Nose and Throat		Karkare, G. S., MB BS	Anaesthetist
Prasad, S. N., MB BS	Resident Surgeon	Jogwar, M. G., MB BS	Med. Officer
			Med. Officer

## UNIVERSITY COLLEGES

[ (LC), (LIT), etc. : symbols for reference to the Colleges in Teaching Staff list, *above* ;  
LLB, BTech, etc., after the name of a coll. means that courses are provided there for  
LLB, BTech, etc.]

LAW COLLEGE, Nagpur (LC) (tel. : 2920).  
LLB, LLM. Principal—S. Janardhan Rao,  
LLM *Harv.*

Nagpur (LIT) (tel. : 3025). BTech, MTech  
Dir.—P. S. Mene, DIC, BSc PhD *Lond.*

UNIVERSITY TRAINING COLLEGE, Nagpur  
(UTC). DipT, BT, MEd. Principal—S. N.  
Tamhane, MA MEd.

LAXMINARAYAN INSTITUTE OF TECHNOLOGY,

## UNIVERSITY TEACHING DEPARTMENTS

DEPT. OF ANCIENT INDIAN HISTORY AND  
CULTURE. MA, PhD. Prof. & Hd. of Dept.—  
V. V. Mirashi, MA DLitt.

DEPT. OF BIOCHEMISTRY. MSc, PhD. Prof. &  
Hd. of Dept.—M. C. Nath, DSc, FNI, FRIC.

DEPT. OF GEOLOGY. BSc, MSc, PhD. Prof. &  
Hd. of Dept.—K. Sripada Rao, MSc, FGS, FNI.

DEPT. OF LIBRARY SCIENCE. DipLibSc. Hd.  
of Dept.—P. S. Phadke, BA DipLibSc.

DEPT. OF PHARMACY. BPharm. Lectr. in  
charge of Dept.—V. Subbarao, MPharm.

DEPT. OF POLITICAL SCIENCE. MA, PhD. Prof.  
& Hd. of Dept.—N. R. Deshpande, AM PhD *Cal.*,  
MA LLB.

DEPT. OF PUBLIC ADMINISTRATION AND LOCAL  
SELF-GOVT. MA, PhD, DipinLSG. Reader &  
Hd. of Dept.—V. S. Murti, MPA *Harv.*, MA.

DEPT. OF POSTGRADUATE TEACHING IN HUMANI-  
TIES. MA. Officer-in-Charge—V. V. Mirashi,  
MA DLitt.

## OTHER COLLEGES ADMITTED TO THE PRIVILEGES OF THE UNIVERSITY

AKOLA, *Govt. College of Agriculture* (AA).  
BSc(Agr). Principal—R. C. Shrivastava, MSc  
Tech *Manc.*

AKOLA, *Govt. Training College* (GTC). BT.  
Principal—R. H. Munje, MSc *Bom.*, DipEd *Brist.*

AKOLA, *Sitabai Arts College* (SA). BA, BCom,  
BSc, LLB. Principal—R. K. Page, MA LLB.

AMRAVATI, *Govt. Dip.T.Inst. for Men* (Dip.TM)  
DipT. Principal—B. B. Samant, MA PhD.

AMRAVATI, *Govt. Dip.T.Inst. for Women*  
(Dip.TW). DipT. Principal—Mrs. N. Sathe,  
MA BT.

AMRAVATI, *Govt. Polytechnic* (GPA). Dipl. in  
Engin. (civil, electr., mech.). Principal—P. S.  
Lele, BE.

AMRAVATI, *Govt. Postgraduate Basic Training  
College* (ABT). BT(Basic). Principal—B. B.  
Samant, MA BT PhD.

AMRAVATI, *Shree Shivaji College* (Sh). BA,  
BSc, BSc(Agr), BCom, MCom, LLB. Principal  
—N. C. Deshmukh, MCom.

AMRAVATI, *Vidarbha Mahavidyalaya* (VM).  
BA, MA, BSc, MSc. Principal—D. K. Banker,  
MA.

BULDANA, *Buldana Arts College* (B). BA.  
Principal—R. N. Kharche, MA.

CHANDA, *Janata Mahavidyalaya* (Ch). BA.  
Principal—G. H. Mahajan, MA.

CHANDA, *Janata Secondary Teachers' Training  
College* (JT). DipT, BT. Principal—S. K. Jha,  
BSc MEd.

GONDIA, *Arts College* (G). BA, BCom. Prin-  
cipal—K. K. Verma, MA BT LLB.

KHAMGAON, *G.S. College of Science & Arts*  
(GSc). BA, BCom, BSc. Principal—K. M.  
Munshi, MSc.

NAGPUR, *College of Agriculture* (A) (tel. : 2378). BSc(Agr), MSc(Agr). Principal—R. P. Asthana, DIC, MSc PhD.

NAGPUR, *College of Science* (Sc) (tel. : 2481). BSc, MSc, MA(Maths), PhD, DSc. Principal—L. B. Kajale, DSc.

NAGPUR, *Dhanwate National College* (N). BA. Principal—D. G. Londhey, MA Bom., PhD Leip.

NAGPUR, *Govt. Engineering College* (E). BE. Principal—A. De'Souza, BA BE.

NAGPUR, *Govt. Polytechnic* (GPN) (tel. : 2483). Dipls. in Engin. (auto., civil, electr., mech.), Art and Archit. Principal—K. N. Tiloo, BSc(Mech & Electr) Ban.

NAGPUR, *G.S. College of Economics & Commerce* (CN) (tel. : 2760). BCom, MCom. Principal—M. R. Tokhi, MA(Econ) BCom LLB Luck.

NAGPUR, *Hislop College* (H) (tel. : 2979). BA, MA, BSc, Dipl. & Cert. in Journalism. Principal—D. G. Moses, MA Madr., AM PhD Col.

NAGPUR, *Lady Amritbai Daga College for Women* (W) (tel. : 2304). BA, BSc(HomeSci). Principal—Miss M. A. Saldanha, MA MS MED PhD.

NAGPUR, *Medical College* (M) (tel. : 2488). MB BS, MD, MS, MO, MSc(Med), PhD, Dipl. in Ophthalmol. Dean—G. V. Barue, MS.

NAGPUR, *M.M. College of Science* (M). BSc. Principal—N. A. Shastri, MSc.

NAGPUR, *Nagpur Mahavidyalaya* (NM) (tel. : 2358). BA, MA. Principal—V. B. Kolte, MA PhD I.LB.

NAGPUR, *Nagpur Veterinary College*. BVSc. Principal—V. N. Sarma, MVSc.

NAGPUR, *S.B. City College* (C) (tel. : 2860). BA. Principal—S. L. Pandharipande, MA.

NAGPUR, *St. Francis De Sales' College* (SFS). BA, BSc. Principal—M. M. Balaguer, MA PhD.

WARDHA, *G.S. College of Commerce* (CW). BCom, MCom. Principal—M. M. Shah, MA PhD Bom.

WARDHA, *Swavalamb ; Dip. T. College* (S). Dip'T. Principal—H. B. Damle, MA BT LLB.

WASHIM, *Rajasthan Aryan College* (R). BA. Principal—V. P. Mohogaonkar, MA LLB.

YEOTMAL, *Amolakhchand Mahavidyalaya* (AM). BA, BSc. Principal—K. M. Vaidya, MA LLB.

YEOTMAL, *Vanijya Mahavidyalaya* (V). BCom. Principal—S. D. Datey, MA LLB.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Admin.) : M. R. Thakur, MA LLB. Asst. Registrar (Finance) : S. R. Gupte, BA LLB. Officer-in-Charge, Phys. Educn. : M. P. Major. Univ. Med. Officer : P. U. Deshpande, MB BS. Supt., Univ. Hostels : Dr. P. S. Khankhoje. Sec. (*ex officio*) Students' Information Bureau : M. R. Thakur, MA LLB. Lady Warden, Sadaparva Hostel : Mrs. S. Didolkar.

## GENERAL INFORMATION

The univ. was establd. in 1923. Teaching is provided partly through the affiliated colleges and partly through the teaching depts. of the univ. itself.

**CONSTITUTION.** The court is the supreme governing body with power to revise the acts of the executive and academic councils. The executive council is the chief executive body ; it controls univ. funds and, subject to certain limitations, it makes the ordinances. The executive council consists of the vice-chancellor, the treasurer, the deans of facs., 5 members elected by court, 2 principals of non-govt. colls., 4 members (elected by academic council) who are not principals of non-govt. colls., and 3 members nominated by the state govt. The academic council, the chief academic body, constitutes facs. and depts. of study, prepares syllabuses and recommends ordinances relating to admission to exams. and degrees. The facs. (*see below*) recommend subject syllabuses to the academic council on the recommendation of the bds. of studies ; no ordinances relating to courses of study, exam. standards and other academic matters are made by the executive council unless the opinion of the relevant fac. has been obtained. The facs. constitute bds. of studies which prepare courses of study. There is also a statutory finance cttee. with power

to examine receipts and expenditure, to allocate funds and to sanction expenditure.

**INCOME** (1958-59). Rs. 2,615,789 (govt., 24 per cent. ; fees, 60 per cent. ; other, 16 per cent.).

**FACULTIES AND DEANS.** *Agric.*, Prof. R. P. Asthana ; *arts*, Prof. D. G. Moses ; *comm.*, Prof. M. R. Tokhi ; *educn.*, R. H. Munje ; *engin. & technol.*, Dr. P. S. Mene ; *law*, Justice, S. P. Kotwal ; *med.*, G. B. Barue ; *sci.*, Prof. L. B. Kajale.

**UNIVERSITY LIBRARY.** 81,884 vols. (incl. libr. of univ. teaching depts.).

**MEDIUM OF INSTRUCTION.** *Gen. educn.* (facs. of arts & sci.) : Engl., Hindi and Marathi media for pre-arts, pre-sci. and BA classes ; Engl. alone for postgrad. classes. *Professl. educn.* : Hindi and Marathi media for pre-comm., BCom, DipT and BT ; Engl. for remaining courses.

**ADMISSION.** Admission to the univ. is confined to students who have passed the high sch. cert. exam. held under C.P. High Sch. Educn. Act of 1922 or bd. of secondary educn., Madhya Pradesh or Vidarbha or any other recognized equivalent exam. The univ. began pre-univ. exams. in 1957-58.

**DEGREES.** *Agric.*—BSc(Agr), 3 yrs. after pre-sci. (agric.) ; MSc(Agr), 2 yrs. study after BSc

(Agr); PhD, open to MScs of 2 yrs.' standing by thesis. *Arts*—BA, 3 yrs. after pre-arts; MA, 2 yrs.' study after BA; PhD, open to MAs of 2 yrs.' standing by thesis; DLitt, open to PhDs of 3 yrs.' standing and MAs of 8 yrs.' standing, for original contribution to learning. *Comm.*—BCom, 3 yrs. after pre-comm.; MCom, 2 yrs. after BCom; PhD, open to MComs of 2 yrs.' standing by thesis. *Educn.*—BT, 1 yr.'s postgrad. study; MEd, open to BTs (and certain other persons recommended by the academic council) by exam. and thesis; PhD, open to MEds and MAs and MScs (with BT specially permitted) by thesis. *Engin. & technol.*—BE (civil, electr., mech.), 3 yrs. after pre-professl. (engin. & technol.); BTech (oil technol. and chem. engin.), 4 yrs. after pre-professl. (engin. & technol.); MTech, open to BTechs of 1 yr.'s standing; BPharm, 3 yrs. after pre-professl. (med. and pharm.). *Law*—LLB, 2 yrs. after approved bachelor's degree; LLM, 2 yrs.' course for approved grads. in law; LLD, open to approved LLMs of 3 yrs.' standing by thesis. *Med.*—MB BS, 4½ yrs. after pre-professl. med.; MD, MS & MO, 2 yrs.' study and 6 months' work after MB BS; MSc(Med), 2 yrs.' study and res. after MB BS; PhD(Med), open to MSc(Med) of 2 yrs.' standing by thesis. *Sci.*—BSc, 3 yrs. after pre-sci.; MSc, 2 yrs.' study after BSc; PhD, open to MScs of 2 yrs.' standing by thesis; DSc, 3 yrs. after MSc, for res. conducive to advancement of sci. All higher degrees are open to approved grads. of other univs.

**DIPLOMAS.** Postgrad.: library sci., ophthalmol. (after MB BS), journalism, 1 yr. Other: local self-govt., teaching, 1 yr.; art, engin., 3 yrs.; archit., 4 yrs. from SSC exam.

**EXAMINATIONS IN ORIENTAL LEARNING.** The univ. holds jr., sr. and higher dipl. exams. in Arabic, Pali, Persian, Prakrit and Sanskrit for which courses are provided in certain private instns. recognized for the purpose. In Sanskrit, Pali and Prakrit, the following titles are awarded: Prajna (jr. exam.), Visharad (sr. exam.) and

Shastri (higher exam.); in Arabic: Maulvi (jr. exam.), Maulvi Alim (sr. exam.) and Maulvi Fazil (higher exam.); in Persian, Munshi (jr. exam.), Munshi Alim (sr. exam.) and Munshi Fazil (higher exam.). Duration of course; jr. exams.—none specified; sr. exams.—2 yrs. from corresponding jr. exam.; higher exams.—2 yrs. from corresponding sr. exam.

**STUDY LEAVE.** There are no univ. regns. governing the granting of study leave.

**FEES.** Exam. fees. Pre-arts, pre-comm., Rs. 30; pre-sci., pre-sci. (agric.), pre-professl. (engin., technol. & med.), Rs. 35; BA, BCom, BT, Rs. 40; BSc, BSc(Agr), Rs. 45; previous LLB, Rs. 35; final LLB, Rs. 40; 1st BE, Rs. 45; 2nd BE, Rs. 50; final BE, Rs. 60; 1st BPharm, Rs. 40; final BPharm, Rs. 40; 1st BTech, final BTech pt. I & pt. II, Rs. 40 each; 1st MB BS, Rs. 40; 2nd MB BS, Rs. 60; final MB BS, Rs. 60; MA & MSc (maths.) pt. I, Rs. 35, pt. II, Rs. 35; MA & MSc (subjs. other than maths.) pt. I, Rs. 35, pt. II, Rs. 40; MCom pt. I, Rs. 30, pt. II, Rs. 30; MSc(Agr) pts. I & II, Rs. 35; MSc(Tech), MEd, MD, MS, MO, MSc(Med), Rs. 100; PhD, Rs. 175; LLM, LLD, DLitt, DSc, Rs. 200. Diplomas: art, Rs. 65; engin., Rs. 80; journalism, Rs. 50; library sci., Rs. 45; local self-govt., Rs. 40; ophthalmol., Rs. 75; teaching, Rs. 25.

**ACADEMIC YEAR.** June to March; 2 terms of 17 wks. each.

**STUDENT RESIDENCES.** The univ. maintains two hostels for boys and one for girls accommodating 250 and 30 students respectively.

**STUDENTS' INFORMATION BUREAU,** Univ. Building (tel.: 2382). Advises and helps students who go abroad for advanced studies.

**PUBLICATIONS.** *Calendar*, 2 vols. (every 3 yrs., Rs. 2 per vol.); *Annual Report* (free); *Minutes of Univ. Meetings* (annual, free); *Prospectus* (annual, from 8 as. to 12 as. according to exams.); *Exam. Papers* (annual, from 8 as. to Rs. 2 according to exams.); *Extension Lectures* (every 2 yrs., price as fixed).

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	19,423	—
Women . . .	3,077	—
Total	22,500	—

Distribution by Faculties. *Agric.*, 1132; *arts*, 8921; *comm.*, 3801; *educn.*, 726; *engin. & technol.*, 855; *law*, 526; *med.*, 807; *sci.*, 5732. Total: 22,500.

Included in the figures above are :—

Intermediate or Pre-University students, 9232.  
Postgraduate students, 1110.

New admissions, 9519.

Students from other countries, 26. (Countries from which largest numbers came: Nepal, 10; Africa, 10).

**DEGREES AWARDED (1958-59).** *Agric.*: BSc (Agr), 67. *Arts*: BA, 827; MA, 184; PhD, 2. *Comm.*: BCom, 140; MCom, 23; PhD, 1. *Educn.*: BT(Gen), 92; BT(Basic), 10; MEd, 1. *Law*: LLB, 96. *Med.*: MB BS, 74; MSc(Med) 4; MD, 1; MS, 2. *Sci.*: BSc, 202; MSc, 52; PhD, 4; BSc(Tech), 8; BTech, 5.

**DIPLOMAS AWARDED (1958-59).** Archt., 6; art, 3; engin., 173; journalism, 10; library sci., 19; local self-govt., 22; ophthalmol., 1; oriental learning: jr. 26, sr. 3, higher 2; teaching, 415.

# OSMANIA UNIVERSITY\*

Founded 1918

*Postal Address* : Hyderabad, Andhra Pradesh, South India

*Cables and Telegrams* : University, Hyderabad, Deccan, 7

*Telephone* : 2402

CHANCELLOR—THE GOVERNOR OF ANDHRA PRADESH (*ex officio*)

PRO-CHANCELLOR—PRINCE MUKARRAM JAH BAHADUR, BA *Oxon.*, MA *Camb.*

VICE-CHANCELLOR—D. SADASIVA REDDI, MA *Oxon.*

REGISTRAR—K. N. ACHARYA, MA *Mys.*

## TEACHING STAFF

### UNIVERSITY COLLEGE OF AGRICULTURE

*Postal Address* : Hyderabad, Deccan, 7

*Telephone* : 2402, Extn. 20

*Principal*—H. A. RAZVI, BAg *Poona*, PhD *Wales*

#### Agricultural Botany

Razvi, H. A., BAg *Poona*, PhD *Wales*  
Ramana Rao, B. V., MSc *Ban.*  
Kaldakam, Mrs. V., MSc *Madr.*  
Khan, M. A. A., MSc(Agr) *Karn.*

#### Agricultural Chemistry

Rao, T. M. V., BSc *Bom.*, PhD *Wis.*  
Murthy, S. B., BA BSc *And.*,  
MSc(Agr) *Alld.*

#### Agricultural Economics

Suryanarayana, K. S., BScAg *Madr.*,  
MA *Nag.*  
Swamy, M. S. K., MA

#### Agricultural Engineering

Satyannarayana Rao, T., BScAg *Bom.*,  
BA *Alig.*  
Birewar, B. R., BSc(Agr) *Nag.*,  
BSc(AgrEng) *Alld.*

#### Agriculture and Horticulture

Prof. ....	Prof.
Reader Suryanarayana Rao, R., BScAg <i>Madr.</i> ,	
Lectr. MS <i>Kansas</i>	Reader
Lectr. Bhaskaran, K., BScAg <i>Madr.</i> , MS <i>Kansas</i>	Lectr.
Yaseen, M., MS <i>Kansas</i> , BSc(Agr)	Lectr.
Ahmed, K., BSc(Agr)	Lectr.
Reader Ahmedulla, M., BScAg <i>DH Madr.</i>	Lectr.
Satyannarayana, G., MScAg <i>Madr.</i>	Lectr.

#### Animal Husbandry and Veterinary Science

Karnani, B. T., MSc <i>Bom.</i> , PhD <i>Corn.</i>	Reader
Ahmed, T.	Lectr.
Lectr. Nomani, Z. A., BSc(Agr)	Lectr.

#### Farm

Lectr. Khan, S. B., BSc <i>Brist.</i>	Farm Supt.
---------------------------------------	------------

#### Plant Breeding and Entomology

Lectr. ....	Prof.
Ali, M. H., MSc <i>Minn.</i> , PhD <i>Kansas</i>	Reader
Lectr. Rao, A. A., BScAg PhD <i>Madr.</i>	Lectr.

### UNIVERSITY COLLEGE OF ARTS AND COMMERCE

*Postal Address* : Hyderabad, Deccan, 7

*Telephone* : 2402, Extn. 25

*Principal*—M. A. QADER, BSc *Lond.*

#### Arabic

Khan, A. M., MA DLitt <i>Cairo</i> , PhD <i>Camb.</i>	Prof. Khan, A. H., MA BOL <i>Madr.</i>	Lectr.
Fazl, S. A., MA PhD	Reader Sabur, M. A., MA	Lectr.

\* Member of the Association of Universities of the British Commonwealth



**Commerce**

Ramanadham, V. V., PhD *And. & Lond.*,  
MCom  
Rao, B. R., MA *Calc.*  
Khan, I. H., BCom *Lond.*  
Rao, B. P., BCom *And.*, MCom LLB *Luck.*

Prof.  
Reader  
Reader  
Lectr.

Bhargava, R. S., MCom *Luck.*  
Somaraj Ram, C., MCom LLB  
Chedda, T. R., MCom *Panj.(I.)*  
Ahmed, M. S., BCom MA

Lectr.  
Lectr.  
Lectr.  
Lectr.

**Economics**

Qader, M. A., BSc *Lond.*  
Husain, S. A., MA LLB *Luck.*, LT *Alld.*  
Hasan, S. F., MA  
Ramkrishna, K. T., MA MLitt *Madr.*  
Geelani, M. A., MA  
Raman, V., MA PhD

Prof.  
Reader  
Reader  
Reader  
Lectr.  
Lectr.

**English**

Kumar, S. K., MA *Panj.(I.)*, PhD *Camb.*  
Manikyam, T. W., MA *Nag.*, LT *Madr.*  
Siddiqi, M. N., BA *Oxon.*, MA  
Shahane, V. A., MA MLitt *Bom.*,  
PhD *Leeds*  
Samuel, M. S., MA *Madr.*  
Joshi, B. N., MA *Bom.*  
Purushottam Rao, K., MA  
Sastry, J. S., MA *Madr.*  
Sirajuddin, S., MA  
Mirza, T. A., MA

Prof.  
Reader  
Reader  
Reader  
Reader  
Reader  
Reader  
Reader  
Reader  
Lectr.

**French**

Chouraqui, S.

Hon. Prof.

**Geography**

Subramaniam, M. J., MA  
Hameed, S. A., BSc MA BT *Alig.*  
Prasad, D., MA *Madr.*  
Manzoor Alah, MA *Alig.*

Lectr.  
Lectr.  
Lectr.  
Lectr.

**German**

Rodi, F.

Hon. Prof.

**Hindi**

Pande, R. N., MA LLB *Ban.*, PhD *Nag.*  
Pandeya, R. K., MA *Agra*, LT *Alld.*,  
PhD  
Khandelwal, R. K., MA *Luck.*  
Gyan Asthana, Mrs., MA

Reader  
Reader  
Lectr.  
Lectr.

**History**

Srinivasachar, MA PhD *Lond.*  
Sajjanlal, Q. A., MA *Bom.*  
Khalidi, A. N., DLitt *Cairo*, MA  
Natarajan, S., MA MLitt *Annam.*  
Reddi, L. N., MA

Prof.  
Reader  
Reader  
Reader  
Lectr.

**Kannada**

Bhimsen Rao, D. K., MA *Mys.*  
Patwari, R. R., MA *Mys.*

Hon. Prof.  
Reader

Ramaswami, B., MA *Mys.*  
Ramchandra Rao, MA *Madr.*

Lectr.  
Lectr.

**Marathi**

Madheker, R. B., MA *Madr.*  
Kahalekar, B. C., MA LLB  
Kulkarni, V. D., MA

Reader  
Lectr.  
Lectr.

**Persian**

Husaini, MA LLB PhD *Lond.*  
Rasheed, G. D., MA PhD  
Mannan, A., MA

Hon. Prof.  
Reader  
Lectr.

**Philosophy**

Valiuddin, MA *Alig.*, PhD *Lond.*  
Salahuddin, M., MA *Dacca*  
Wahiduddin, S., PhD *Marburg*  
Reddy, M., MA PhD  
Khan, D. A., MA  
Mandhar, BT MA *Calc.*

Hon. Prof.  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.

**Political Science**

Rajgopal, P. V., MA *Madr.*  
Hashmi, S. H., MPA *Philippines*, MA  
Obaidul Haq, MA  
Muttalib, M. A., MA PhD  
Gita Reddy, MA

Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.

**Religion and Culture**

Shore, S. H., MA PhD  
Yousufuddin, MA PhD  
Jaffer, R. Q., MA  
Siddiqui, H. M. A., Moulvi Fazil *Panj.(I.)*

Reader  
Reader  
Lectr.  
Lectr.

**Sanskrit**

Sharma, A., MA *Alld.*, PhD *Munich*  
Rao, K., MA *Calc. & Nag.*, DipEd  
Bhat, B. K., MA *Bom. & Osm.*  
Shastry, MA *Delhi*  
Rao, D., MA

Prof.  
Reader  
Reader  
Lectr.  
Lectr.

**Sociology**

Hasan, J., PhD *Heidel.*  
Siddiqi, M., MA  
Askari, S. H., MA  
Mudiraj, G. N. R., MA  
Fatima Shujaat, MA PhD

Prof.  
(on leave) Reader  
Lectr.  
Lectr.  
Lectr.

**Tamil**

Sundaram, P. M., MA *Annam.*  
Manickam, T. S., MA *Madr.*

Reader  
Lectr.

**Telugu**

Laxmiranjanam, K., MA *Madr.*  
Rama Raju, B., MA PhD  
Venkatavadhani, D., MA *And.*, PhD  
Rangacharloo, C., Siromani *Madr.*, Vidwan

Prof.  
Reader  
Reader  
Lectr.

**Urdu**

Sarwari, A. Q., MA LLB  
Mohammad, S., MA  
Qateel, A. H., MA PhD  
Shuttari, S. H., MA

Prof.  
Reader  
Reader  
Lectr.

## UNIVERSITY COLLEGE OF EDUCATION

Postal Address : Hyderabad, Deccan, 7

Principal—Mrs. SYEDA ZOHRA BEGUM, MA *Alig.*, MEd *Leeds*

Chari, K. V., MA <i>Lond.</i> , MEd (on leave)	Reader	Tirtha, N. V., MEd BSc <i>Mys.</i> , MA	
Farooq Husain, S. H., BSc DipPhysEd	Lectr.	PhD <i>Stan.</i>	(on leave) Lectr.
Khan, I. A., MA <i>Alig.</i> , MEd	Lectr.	Kamal, A., MA <i>Madr.</i> , EdB <i>Glas.</i>	Lectr.
Subba Rao, C. S., MA <i>And.</i> , MEd	Lectr.	Naidu, S. L., BSc MEd	Lectr.
Prasad, B., MA MEd	Lectr.	Radhakrishna, K., BSc <i>And.</i> , MA	
Deshpande, M. L., MSc MEd	Lectr.	MEd <i>Ban.</i>	Lectr.

## UNIVERSITY COLLEGE OF ENGINEERING

Postal Address : Hyderabad, Deccan, 7

Telephone : 35017

Principal—Z. ANSARI, BSc *Manc.*, MA**Civil Engineering**

Ansary, Z., BSc <i>Manc.</i> , MA	Prof.	Nair, K. K., MSc	Prof.
Asthana, K. C., MS <i>Col.</i> , PhD <i>Corn.</i> , BE	Prof.	Husain, A., BSc <i>Madr.</i> , BE <i>Northwestern</i>	
Rasheed, M. A., BA BE	Reader	MSc <i>Alg.</i>	(on leave) Reader
Qadri, S. M. S., BSc BE	Reader	Vithal, D. V. R., BE <i>Madr.</i>	(on leave) Lectr.
Ah, M. A., BSc <i>N.Z.</i>	(on leave) Reader	Rao, B. H., BE	Lectr.
Fakhruddin, M., BE	Reader	Narsimhan, Y., BE	Lectr.
Ismail, S. M., BE	Reader		
Jawalkar, N. R., MA	Lectr.	<b>Mechanical Engineering</b>	
Palmnikar, V. G., BE	Lectr.	Ali, A., BSc <i>Madr. &amp; Lond.</i>	Prof.
Husain, S. T., BE MS	(on leave) Lectr.	Ramanujacharya, K., BScEng <i>Ban.</i>	Reader
Ansari, M. A. H., BE	(on leave) Lectr.	Vithal, N. P. R., BE <i>Rajput.</i>	Lectr.
Chary, K. N., BE	(on leave) Lectr.	Kumaraswamy, M. A., BSc	(on leave) Lectr.
Murthy, B. S., BE	Lectr.	Rao, T. V. L., BE <i>Raj.</i>	Lectr.
Sastry, U. A., MA	Lectr.	Mannan, MA BE	Lectr.
Badrudin, S., ME <i>Calc.</i>	Lectr.	Srinivasan, C., BE M'Tech	Lectr.
Khan, A. W., BSc <i>Madr.</i> , MSc	Lectr.	Chandru, S., BE	Lectr.
Rangaswami, P., MSc <i>Mich.</i> , BE	Lectr.		
Reddy, M., BE	Lectr.	<b>Mining Engineering</b>	
Venkatadri, C., MS BE	Lectr.	Sheshagiri Rao, H. S., BSc <i>Madr.</i>	Prof.
Rao, R. K., BE	Lectr.	Bijapurkar, M. V.	Asst. Prof.
		Krishnamurthy, K. K., BSc <i>Ban.</i>	Asst. Prof.
		Venkayya, E., MSc <i>And.</i> , DSc <i>Zur.</i>	Lectr.
		Somayajulu, MSc <i>Ban.</i>	Lectr.

**Electrical Engineering**Gadgil, V. M., BSc *Madr. & Lond.*

Prof.

## UNIVERSITY COLLEGE OF SCIENCE

Postal Address : Hyderabad, Deccan, 7

Telephone : 2402, Extn. 38

Principal—R. SATYANARAYAN, BSc PhD *Lond.*, ARCS**Botany**

Salam, A., MSc PhD <i>Belf.</i>	Reader	Rao, K. V. N., MSc	Lectr.
Saxena, M. R., MSc PhD <i>Lond.</i>	Reader	Rao, D. N., MSc PhD	Lectr.
Khan, F. N., MSc	Reader	Rama Rao, P., MSc	Lectr.
Farooqi, A. J., MSc	Reader		
Hashim, M., MSc PhD	Reader	<b>Chemical Technology</b>	
Singh, T. R., MSc	Lectr.	Kulkarni, B. S., PhD <i>Bom.</i>	Prof.
Siddiqi, R. A., MSc	Lectr.	Ali, A., MSc <i>Ill.</i>	Reader
Swami, S., MSc	Lectr.	Nizamuddin, H., MSc	Reader
Ramayya, N., MSc	Lectr.	Kaparthi, R., MSc <i>Cinc.</i> , PhD	Reader
		Qaiyum, A., MSc	Lectr.

Vaidya, L. S., MSc	Lectr.	Raja, N., MSc	Lectr.
Kantam, J. L., MSc	Lectr.	Reddy, R. S., MSc	Lectr.
Shamsuddin, M., BE	(on leave) Lectr.		
Shah, C. P., MSc	Lectr.	<b>Mathematics</b>	
Ghanekar, K. M., MSc	Lectr.	Rao, R., MA	Reader
Ramchandran, P. S., MSc	(on leave) Lectr.	Ahmed, A., MA PhD Lond.	Reader
Sarma, N. L. V. R., MSc	Lectr.	Vishwanatham, B., MA PhD	Reader
Adityasundarama, BScEngg	Lectr.	Ahsan, M., MSc <i>Alig.</i>	Lectr.
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SIDDIPET, *Arts & Science College*, Andhra Pradesh. Pre-Univ., BA, BSc. Principal and ECON.—N. Krishnamurthi, MA And. Lectrs.: ECON.—K. Purushotham, BA Madr.; ENGL.—D. S. Prakash Rao, MA Ban.; HIST.—K. Subramanyam, MSc; MATHS.—V. Ramchandar

Rao, MA MSc Madr.; PHYS. AND CHEM.—S. Viswanatham, MSc; TELUGU—P. Gopalakrishnamurthy, BA And.; ZOOL AND BOT.—D. Viswanadham, P. Suryanarayana, MSc And.

WARANGAL, *Govt. Teachers' Training College*, Andhra Pradesh. BEd. Principal—Mrs. Sarada Bai, MSc DipEd. Lectrs.—J. Venkateshwara Rao, MA BEd, M. Sambasiva Mohan, MA MEd, D. Chandraiah, MA MEd, Q. M. Habeebuddin, BA MEd, P. Venkat Rao, MA BL BEd, S. A. Bartar, MA BEd, C. Venkata Ramana, MSc BEd, O. R. Rao, MA BEd.

WARANGAL, *Regional Engineering College*. BE. Principal—M. Muthukrishnudu, ME. 27 other Teachers.

WARANGAL, *Regional Medical College*. Pre-med. Principal—L. D. Khatri, MB BS Bom., DTM DPH Lond., FRFPGlas. 9 other Teachers.

## GENERAL INFORMATION

The univ. was establd. in 1918, and its charter was revised in 1947 and 1950. The univ. act was implemented in Feb. 1959. It is a teaching and affiliating univ.

CONSTITUTION. The univ. is completely autonomous though it is wholly financed by the govt. The univ. syndicate, consisting of 15 members, is the governing body. The vice-chancellor is the chief admin. officer. The other bodies of the univ. are the finance cttee., academic council, senate, library cttee., cttee. of exams., facs. and bds. of studies and equivalence.

INCOME (1959-60). Indian govt.: Rs. 7,415,643.

FACULTIES AND DEANS. *Agric.*, Dr. H. A. Razui; *arts*, Prof. M. A. Qader; *comm.*, Dr. V. V. Ramanadhan; *educn.*, Mrs. Syeda Zohra Begum; *engin.*, Prof. Ziauddin Ansari; *law*, Prof. G. C. V. Subba Rao; *med.*, Dr. I. Chalapathi Naidu; *sci.*, Dr. R. Satyanarayan; *technol.*, Dr. B. S. Kulkarni; *vet. sci.*, Dr. M. Ahmed Hussain.

LIBRARY. 128,727 vols. (English, 39,558; Urdu, Persian, Arabic, 17,867; oriental, 20,433; gift, 20,443; Salarjung, 30,426). There are 7590 MSS. incl. 1239 palm leaf MSS.

ADMISSION. The qualif. necessary for entrance to the BA course is the higher sec. cert. (XII standard) or pre-univ. exam. cert. or equivalent cert.

FIRST DEGREES. 2 yrs. (after dipl. in oriental learning)—BOL; 3 yrs.—BA, BSc, BCom, BSc(Agr); 4 yrs.—BE, BTech, BVSc&AH; 5 yrs.—MB BS.

HIGHER DEGREES. 1 yr.—BEd, MEd (after BEd); 2 yrs.—LLB, MA, MSc, MSc(Agr), MTech, MCom, LLM (after LLB), MD, MS, PhD.

DIPLOMAS. 1 yr. (postgrad.)—library sci.; 2 yrs.—French, German, Italian, Russian, journalism, oriental learning, pub. admin.; 1 yr. postgrad.—DO, DGO, DCH, DCP, DLO, DFM, DA.

STUDY LEAVE has been suspended. Teachers are deputed and their absence is treated as leave to their title.

FEES (Indian govt. currency). Registration, Rs. 2; admission, up to grad. course, Rs. 5; postgrad. and professional courses, Rs. 10; pre-univ., Rs. 28 per term; BA, BSc and BCom, Rs. 35 per term; MA, MSc, BSc(Agr), BVSc, BEd, MEd, LLB, LLM, Rs. 45 per term; MB BS, Rs. 55 per term; BE, Rs. 70 per term; dipl. in journalism, Rs. 38 per term; dipl. in French or German, Rs. 12; dipl. in library sci., Rs. 20 per term; dipl. in pub. admin., Rs. 38 per term.

ACADEMIC YEAR. Three terms: June-Sept.; Oct.-Dec.; Jan.-March.

LANGUAGE OF INSTRUCTION. In all degree and pre-univ. colls. Engl. is main medium of instructn., but in a few colls. parallel classes are conducted in Hindustani. In all professional courses Engl. is only medium of instructn.

RESIDENCE. Univ. hostels provide accomm. for about 1000 students. Cost of living is about Rs. 35 p.m.

STAFF RESIDENCES. Vice-chancellor's lodge; quarters for resident med. officer, warden of hostels, teaching and admin. staff.

NATIONAL CADET CORPS. 3rd Andhra bn. N.C.C. (9 platoons with 725 cadets and 15 officers); 6th Andhra sig. section N.C.C. (2 platoons with 120 cadets and 2 officers); Warangal Ind. Co., N.C.C. (3 platoons with 189 cadets and 2 officers).

**STUDENT HEALTH SERVICE.** Resident med. officer with well-equipped clinic on the campus. Visiting physician once a week. Resident students are examined before admission to hostels.

**PUBLICATIONS.** *Annual Administration Report*

(free); *Syllabuses* (Rs. 1 each); *Revised Charter*; *Admission Rules*; *Concise English-Hindi Dictionary*; text-books for PUC.

UNIVERSITY PRESS. Dir.—A. S. R. Anjaneyulu, BA.

## THE YEAR 1959

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	15,777	—
Women . .	3,017	—

Total . 18,794 —

**Distribution by Faculties.** *Agric.*, 294; *arts*, 5579; *comm.*, 1574; *educn.*, 358; *engin.*, 980; *law*, 1409; *med.*, 1200; *sci.*, 6966; *technol.*, 124; *vet. sci.*, 310. Total: 18,794.

*Included in the figures above are :—*

Pre-University students, 4179.

Postgraduate students, 732.

New admissions, 10,817.

Students from other countries, 17. (Country from which largest number came: Nepal, 9).

**DEGREES AWARDED (1959-60).** *Agric.*, 67; *arts*, 2192; *comm.*, 619; *educn.*, 338; *engin.*, 172; *law*, 573; *med.*, 210; *sci.*, 1080; *technol.*, 44; *vet. sci.*, 153. Total number of first degrees awarded, 4715.



# PANJAB UNIVERSITY\*

## CHANDIGARH

Founded 1947

Postal Address : Chandigarh, Panjab, India

Cables and Telegrams : University, Chandigarh, India

Telephone (Registrar) : 324

CHANCELLOR—H.E. THE GOVERNOR OF THE PANJAB (*ex officio*)

VICE-CHANCELLOR—A. C. JOSHI, DSc, FNI

REGISTRAR—J. R. AGNIHOTRI, BA *Oxon.*, MA

LIBRARIAN—J. S. SHARMA, PhD *Mich.*, MA

### TEACHING STAFF

[†=Part-Time]

#### Anthropology

Chopra, S. R. K., MSc PhD

Reader

Vig, O. P., MSc PhD

Lectr.

Kessar, S. V., MSc PhD

Lectr.

Singh, S., MSc PhD

Lectr.

Singh, D. D., MSc PhD

Temp. Lectr.

#### Astronomy

Syal, R. D., MA

Lectr.

#### Commerce

Datta, K., MA *Camb.*, BCom *Lond.*

Principal, Univ. Commerce Coll.

Kapoor, T. N., LLB MCom PhD

Reader

Dogra, R. M., MA

Lectr.

Mehrotra, B. N., MA LLB

Lectr.

Bansal, B. L., MCom LLB

Lectr.

Mongia, J. N., MA PhD

Lectr.

Sandhawalia, S. S., BA LLB

†Lectr.

#### Botany

Mehra, P. N., DSc, FNI

Prof., Hd. of Dept.

Chopra, R. S., MSc

Reader

Thind, K. S., MSc PhD

Lectr.

Khoshoo, T. N., MSc

Lectr.

Singh, Dasondha

Lectr.

Pathania, R. S., MSc

Lectr.

Verma, S. C., MSc

Lectr.

#### Chemical Engineering and Technology

Peck, R. E. Visiting Prof., Hd. of Dept.

Gupta, I. S., MSc PhD

Reader

Sharma, L. R., MSc PhD

Reader

Singh, J., MSc PhD

Lectr.

Bhalla, M. D., MSc(Tech)

Lectr.

Lele, P. S., MSc PhD

Lectr.

Bhatia, S. L., DSc

Lectr.

Bagga, R. L., BSc

Lectr.

Chandra, V.

Lectr.

Singh, G., MSc PhD

Lectr.

Bhatnagar, J. N.

Lectr.

#### Chemistry

Paul, R. C. Prof., Hd. of Dept.

Puri, B. R., MSc PhD

Reader

Narang, K. S., MSc PhD

Reader

Rastogi, R. P., MSc PhD

Reader

Singh, B., DSc

Lectr.

Gupta, I. S., MSc PhD

Lectr.

Lal, K., MSc PhD

Lectr.

Lakhan-Pal, M. L., MSc PhD

Lectr.

#### Economics

Rangnekar, S. B., MA PhD *Bom.* Hd. of Dept.

Manmohan, S., MA

Reader

Mathur, G., MA *Camb.*

(on leave) Lectr.

Handa, D. R., MA

(Stats.) Lectr.

Sahota, G. S., MA

Lectr.

Jalan, P. P., MA

Lectr.

#### English

Sharma, D. C., MA *Calc.*

Hd. of Dept.

Kumar, I., MA *Camb. & Panj.*

Reader

Kaul, R. K., BA *Oxon.*

Lectr.

Chander, J., MA

Lectr.

Raina, M. L., MA

Lectr.

#### French

Boolchand, Mrs. A.

Lectr.

#### Geography

Sarkar, P. K., MSc PhD Reader, Hd. of Dept.

Gosal, G. S., MS PhD *Wis.*, MA

Reader

Member of the Association of Universities of the British Commonwealth

Sen, J. C., MA  
Lal, A., PhD *Indiana*, MA

Lectr. Joshi, D. D., DSc Reader, Offg. Hd. of Dept.  
Lectr. Luther, I. S., MA PhD Lectr.  
Keraswami, R. N., MA PhD Lectr.

### Geology

Sahni, M. R., MA *Camb.*, PhD DSc *Lond.*  
Prof., Hd. of Dept.  
Bhatia, S. B., MSc PhD Reader  
Jain, S. P., MSc Lectr.

### Punjabi

Shan, H. S., MA Lectr.  
Singh, R., MA Lectr.  
Singh, A., MA Lectr.

### Hindi

Dueedi, H. P., MA PhD DLitt  
Prof., Hd. of Dept.  
Madan, I. N., MA PhD Reader  
Bhanot, S. D., MA PhD Lectr.

### History

Gupta, H. R., MA PhD DLitt  
Prof., Hd. of Dept.  
Sethi, R. R., MA PhD Reader  
Mehra, P. L. Reader  
Goswami, B. N., MA Lectr.  
Sangar, S. P. Lectr.

### Journalism

Singh, P. P., MA *Missouri & Lond.*, BA  
LLB *Luck.*, JD *Lond.* Reader, Hd. of Dept.  
Jain, G. P., MA *Alld. & Missouri*, LLB *Alld.*

Lectr.  
Singh, J. B. †Lectr.  
Akhtar, J. D. †Lectr.  
Vidyalankar, R. G. †Lectr.  
Singh, Kuldeep †Lectr.  
Furtado, R. de L. †Lectr.

### Law

Sircar, U. C., BA ML LLD  
Principal, Univ. Law Coll.  
Mehta, H. R., LL.M Reader  
Mongia, B. S., MA LLB Reader  
Banerji, E. H., BA LLB Reader  
Chouhan, B. R., MA LL.M Lectr.  
Kishan, R., BSc LL.M Lectr.  
Tondon, A. R., BA LLB †Lectr.  
Singh, N., BA LLB †Lectr.  
Mehra, B. S., BA LLB †Lectr.  
Lal, C., BA LLB †Lectr.  
Sud, S. L., BA LLB †Lectr.  
Aggarwal, C. D., BA LLB †Lectr.  
Chopra, S. R., LLB †Lectr.  
Dhillan, R. S., BA LLB †Lectr.  
Singh, U., BA LLB †Lectr.  
Mittal, H. L., BA LLB †Lectr.  
Jain, S. K., BA LLB †Lectr.  
Koer, N. S., BA LLB †Lectr.  
Chand, H. A., BA LLB

### Mathematics

Gupta, H. R., MA PhD, FNI  
Prof., Hd. of Dept.  
Bambah, R. P., PhD *Camb.*, MA *Panj.* Reader  
Srinivasan, T. P., MA Reader  
Chopra, S. D., MA PhD Reader

### Pharmaceutical Chemistry and Pharmacognosy

Singh, N., MScTech PhD *Sheff.* Reader  
Jain, M. K., MSc PhD Lectr.  
Khanna, K. L. Lectr.  
Sekhon, N. S., MSc(Tech) Lectr.  
Atal, C. K., MSc PhD *Corn.* Lectr.  
Vashisht, M. L., MSc Lectr.

### Pharmaceutics

Gaind, K. N., MSc PhD Reader, Hd. of Dept.  
Mittal, H. C., MPharm PhD (on leave) Lectr.  
Baveja, S. K., MPharm Temp. Lectr.

### Philosophy

Nath, P., MA PhD Hd. of Dept.  
Raman, N. S. S., MA PhD Lectr.  
Goel, D., MA PhD Lectr.

### Physics

Anand, B. M., MSc PhD Prof., Hd. of Dept.  
Sudershan, M. K., MSc PhD Reader  
Bhanot, V. Reader  
Kalia, P. N., MSc PhD Lectr.  
Singh, Harkrishan, MSc PhD (on leave) Lectr.  
Kumar, K., MSc Lectr.  
Trehan, P. N., MSc (on leave) Lectr.  
Singh, B., MSc (on leave) Lectr.  
Sehgal, M. L., MSc Lectr.  
Nagpal, K. K., MSc PhD Lectr.  
Gupta, P. D., MSc Temp. Lectr.  
Aggarwal, R. L., MSc Temp. Lectr.  
Kumar, S., MSc Temp. Lectr.  
Kaushal, N. N., MSc Temp. Lectr.  
Jolly, R. K., MSc Temp. Lectr.

### Physiology

Bambah, Mrs. S., MB BS, FRCS Temp. Lectr.

### Political Science

Khanna, B. S., MA PhD Prof., Hd. of Dept.  
Sharma, I. D., MA PhD DLitt Reader  
Anand, J. C., MA Lectr.  
Goyal, O. P., MA Lectr.

### Psychology

Jalota, S., MA DPhil Prof., Hd. of Dept.  
Dey, M. K., MSc PhD Reader

### Sanskrit

Shukla, D. N., MA PhD DLitt  
Prof., Hd. of Dept.  
Nath, J., MA Reader  
Ram, G., MA PhD Reader

Raj, H., MA MOL  
Vidyalankar, J. D., MA PhD  
Ohja, S. D., MA

Lectr. Arora, G. I., DIC, MSc PhD *Lond.*  
Lectr. Trehan, K. N., MSc PhD  
Lectr. Satija, R. C., MSc PhD  
Vashist, H. S., MSc PhD  
Bawa, S. R., MSc PhD  
Nath, B., MSc  
Gupta, B. L., MSc

Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Technician

### Zoology

Parshad, G., PhD *Edin. & Panj.*, MSc  
Prof., Hd. of Dept.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar (Exams.) (No. 1): Nandlal.  
Dep. Registrar (Admin.): K. S. Narang, MA.  
Dep. Registrar (Exams.) (No. 2): T. Singh, MA  
LLB. Chief Accounts Officer: J. Narain. Asst.  
Registrar (Co-ordination): K. Mal. Asst.  
Registrar (Conduct): B. Raj. Asst. Registrar

(General): K. C. Walia. Asst. Registrars  
(Exams.): Amrik Singh, MA; K. L. Mukarjee.  
Asst. Registrar: J. Singh. Dir. of Phys. Trg.:  
B. I. Gupta, BA PhD DPE. Directress of Phys.  
Trg.: Miss Pushpa Anand, BA DPE.

## AFFILIATED COLLEGES

[IA, BA, etc., after the name of a coll. means that courses are provided there for  
Intermediate Arts, BA, etc.]

AMBALA CANTT., *G.M.N. College*. IA, ISc, BA, BSc, MA. Principal—R. N. Rihan, MA. 34 Teachers.

AMBALA CANTT., *S.D. College*. IA, ISc, BA, BSc, MA, Prabhakar, Visharad, Shastri. Principal—Bhupal Singh, MA DLitt. 33 Teachers.

AMBALA CITY, *D.A.V. College*. IA, ISc, BA, BSc. Principal—L. C. Dhawan, MA. 30 Teachers.

AMBALA CITY, *Dev Samaj College for Girls*. IA, BA. Principal—P. B. Khera, MA. 10 Teachers.

AMBALA CITY, *S.A. Jain College*. IA, ISc, BA, BSc. Principal—G. C. Jain, MSc. 23 Teachers.

AMRITSAR, *D.A.V. College*. IA, ISc, BA, BSc. Principal—B. S. Bahl, MSc. 52 Teachers.

AMRITSAR, *Govt. College for Women*. IA, ISc, BA. Principal—Miss A. Nathan. 26 Teachers.

AMRITSAR, *Hindu College*. IA, ISc, BA, BSc, MA. Principal—B. L. Kapur, MA. 42 Teachers.

AMRITSAR, *Khalsa College*. IA, ISc, BA, BSc, BSc hons., MA. Principal—Harbant Singh, BSc PhD. 68 Teachers.

BANGA (JULLUNDUR), *Sikh National College*. IA, ISc, BA. Principal—A. S. Malik, MSc. 13 Teachers.

BARNALA, *S.D. College*. IA, ISc, BA. Offg. Principal—R. D. Bhalla, MSc. 17 Teachers.

BATALA, *Baring Union Christian College*. IA, ISc, BA. Principal—Ram Singh, MA PhD. 30 Teachers.

BHATINDA, *Rajindra College*. IA, ISc, BA. Principal—Mrs. H. M. Dhillon, MSc. 23 Teachers.

BHIWANI, *Vaish College*. IA, ISc, BA. Principal—M. T. Malshija, MA. 23 Teachers.

BILASPUR, *Govt. Degree College*. IA, ISc, BA. Principal—B. I. Handa, MA. 16 Teachers.

CHAMBA, *Govt. Degree College*. IA, ISc, BA. Principal—Rajinder Singh, MSc. 15 Teachers.

CHANDIGARH, *D.A.V. College*. IA, ISc, BA, BSc. Principal—S. Ram, MA. 27 Teachers.

CHANDIGARH, *Govt. College*. IA, ISc, BA, BSc. Principal—K. S. Thapar, BA BLitt *Oxon.*, MA. 42 Teachers.

CHANDIGARH, *Govt. College for Women*. IA, BA. Principal—E. N. Shahni, MA DipEd *Lond.* 27 Teachers.

DHARAMSALA, *Govt. College*. IA, ISc, BA, BSc. Principal—T. Singh, PhD *Harv.*, MSc *Panj.* 26 Teachers.

FARIDKOT, *Brijindra College*. IA, ISc, BA. Principal—M. L. Khosla, MA BT. 27 Teachers.

FATEHGARH SAHIB, *Mata Gujri College*. IA, ISc, BA. Principal—N. Singh. 15 Teachers.

FAZILKA, *M.R. College*. IA, ISc, BA. Principal—S. Lal, MA BT. 13 Teachers.

FEROZEPUR CITY, *Dev Samaj College for Women*. IA, BA, MA. Principal—D. Bir, MA BT. 14 Teachers.

FEROZEPUR CITY, *R.S.D. College*. IA, ISc, BA, BSc. Principal—U. Sen, MA. 21 Teachers.

GURDASPUR, *Govt. College*. IA, ISc, BA, BSc. Principal—R. Kumar. 40 Teachers.

GURGAON, *Dronacharya S.D. College*. IA, ISc, BA. Offg. Principal—H. C. Sharma, MA. 34 Teachers.

GURGAON, *Govt. College for Women*. IA, BA. Principal—.....

GURUSAR SADHAR (LUDHIANA), *G.H.G. Khalsa College*. IA, ISc, BA. Principal—Kundan Singh, BA BT. 15 Teachers.

GURU TEG BAHADUR GARH, *Guru Nanak College*. IA, BA. Principal—H. S. Dhillon. 6 Teachers.

HARIANA (HOSHIARPUR), *Hindu National College*. IA, ISc, BA. Principal—L. C. Khurana, MA PhD Lond. 13 Teachers.

HISSAR, *Dayanand College*. IA, ISc, BA, BSc, MA. Principal—D. N. Sharma, MA. 33 Teachers.

HISSAR, *Fateh Chand College for Women*. IA, BA. Principal—Miss Janki Chopra, MA. 12 Teachers.

HISSAR, *Govt. College*. IA, ISc, BA. Principal—S. S. Gupta, MA PhD. 22 Teachers.

HOSHIARPUR, *D.A.V. College*. IA, ISc, BA, BSc, MA. Principal—Ralla Ram, MA. 45 Teachers.

HOSHIARPUR, *Panjab University College*. IA, ISc, BA, BSc, MA, MSc hons. Principal—Inder Singh, MA. 44 Teachers.

HOSHIARPUR, *S.D. College*. IA, ISc, BA, MA. Principal—J. Mitter, MA. 14 Teachers.

HOSHIARPUR, *Visheshwara Nand Vedic Research Institute*. Principal—V. Bandhu Shastri. 3 Teachers.

JAGRAON, *Lajpat Rai Memorial College*. IA, ISc, BA. Principal—Capt. A. N. Kapur. 11 Teachers.

JHAJJAR, *Nehru College*. IA, ISc, BA. Principal—B. L. Sharma. 14 Teachers.

JULLUNDUR, *D.A.V. College*. IA, ISc, BA, BSc, MA. Principal—S. Bhan, MA Lond. & Panj. 91 Teachers.

JULLUNDUR, *Doaba College*. IA, ISc, BA, BSc, MA. Principal—G. D. Khanna, MA BT. 46 Teachers.

JULLUNDUR, *Hans Raj Mahila Mahavidyalaya*. IA, BA, MA. Principal—V. Anand, MA. 16 Teachers.

JULLUNDUR, *Kanya Mahavidyalaya*. IA, ISc, BA, MA. Principal—L. Vati. 25 Teachers.

JULLUNDUR, *Lyallpur Khalsa College*. IA, ISc, BA, BSc, MA. Principal—R. S. Sachdev, MA. 40 Teachers.

KAITHAL, *R.K.S.D. College*. IA, ISc. Principal—P. Sarup, MA. 13 Teachers.

KALALMAJRA KHANNA (LUDHIANA), *A.S. College*. IA, ISc, BA. Principal—S. Ram, MA BT. 20 Teachers.

KAPURTHALA, *Randhir College*. IA, ISc, BA, Prabhakar, Prajna, Visharad, Shastri. Principal—D. N. Kak, MA. 27 Teachers.

KARNAL, *D.A.V. College for Women*. IA, BA. Principal—Mrs. B. Patil. 8 Teachers.

KARNAL, *Dyal Singh College*. IA, ISc, BA, BSc. Principal—R. K. Sharma, MSc. 40 Teachers.

KHANNA, *Shri Saraswati Sanskrit College*. Prajna, Visharad, Shastri, Rattan, Prabhakar. Principal—V. N. Shastri. 6 Teachers.

LUDHIANA, *Arya College*. IA, ISc, BA, BSc, Prabhakar, Gyani. Principal—R. N. Kapur, MSc. 33 Teachers.

LUDHIANA, *G.G.N. Khalsa College*. IA, ISc, BA. Principal—Sujan Singh, MA LLB. 19 Teachers.

LUDHIANA, *Govt. College*. IA, ISc, BA, BSc, MA. Principal—L. D. Mahajan, MSc PhD, FIP. 78 Teachers.

LUDHIANA, *Govt. College for Women*. IA, ISc, BA, BSc. Principal—Miss Krishna Pasricha, MA BT. 42 Teachers.

LUDHIANA, *Khalsa College for Women*. IA, BA. Principal—Miss Lalit Kumari, MA. 15 Teachers.

MAHILPUR (HOSHIARPUR), *S.G.G.S. Khalsa College*. IA, ISc, BA. Principal—Harbhajan Singh, BA BT. 19 Teachers.

MALERKOTLA, *Govt. College*. IA, ISc, BA. Principal—Kesar Singh, MSc PhD. 22 Teachers.

MALERKOTLA, *S.A. Jain College*. IA, ISc, BA. Principal—B. N. Chopra, MA. 10 Teachers.

MANDI, *Vallabh Mahavidyalaya*. IA, ISc, BA, BSc. Principal—S. D. Puri, MA. 23 Teachers.

MANDIDABWALI, *Guru Nanak College*. IA, BA. Principal—Prem Singh, MA MEd. 9 Teachers.

MOGA, *D.M. College*. IA, ISc, BA, BSc, MA. Principal—P. K. Singhhal. 39 Teachers.

MUKTSAR (FEROZEPUR), *Govt. College*. IA, ISc, BA. Principal—Harbans Singh. 18 Teachers.

NABHA, *Govt. Ripudaman College*. IA, ISc, BA, MA. Principal—Mohan Singh, MSc. 26 Teachers.

NAHAN, *Shri Guru Ram Rai Degree College*. IA, ISc, BA. Principal—S. N. Sharma, MA BT. 10 Teachers.

NANGAL AMBIA (JULLUNDUR), *Khalsa College*. IA. Principal—K. S. Khurana, MA. 5 Teachers.

NARNAUL, *Govt. College*. IA, ISc, BA. Offg. Principal—B. L. Sharma, MA. 18 Teachers.

NAWANSHAHR DOABA, *B.L.M. Girls' College*. IA, BA. Principal—Mrs. Gita Aneja, MA.

NAWANSHAHR DOABA (JULLUNDUR), *Radha Krishan Arya College*. IA, ISc, BA, BSc. Principal—N. Lal, MA. 24 Teachers.

NEW DELHI, *Dyal Singh (Evening Camp) College*. BA. Principal—R. Lal. 41 Teachers.

PALWAL, *S.D. College*. IA, ISc, BA, BSc. Principal—R. C. Sharma, MSc. 17 Teachers.

PANIPAT, *Arya College*. IA, ISc, BA, BSc. Principal—L. D. Dikshit, MA. 20 Teachers.

PATHANKOT, *S.M.D.R.S.D. College*. IA, ISc, BA. Principal—F. C. Arora, MA. 18 Teachers.

PATIALA, *Govt. College for Women*. IA, BA. Principal—Mrs. G. Parampal Singh, MA. 20 Teachers.

PATIALA, *Mahendra College*. IA, ISc, BA, BSc, MA. Principal—G. Lal, MA DSc Brussels. 76 Teachers.

PATIALA, *Yadavindra College*. IA, ISc. Principal—Lt.-Col. F. A. von Goldstein, MA Camb. 11 Teachers.

QADIAN, *Sikh National College*. IA, ISc, BA, BSc. Principal—Harkishan Singh, MA. 17 Teachers.

RAMPUR BUSHAHR, *Govt. College*. IA, ISc, BA. Principal—H. N. Chopra. 9 Teachers.

REWARI, *Ahir College*. IA, ISc, BA. Principal—Dharam Singh, MSc. 26 Teachers.

ROHTAK, *All India Jat Heroes' Memorial College*. IA, ISc, BA, BSc. Principal—L. C. Beniwal, MA LT. 39 Teachers.

ROHTAK, *Govt. College*. IA, ISc, BA, BSc, MA. Principal—Jagjiwan Singh, MSc PhD Lond. 45 Teachers.

ROHTAK, *Govt. College for Women*. IA, BA. Principal—Miss B. K. Dhillon. 14 Teachers.

ROHTAK, *Vaish College*. IA, ISc, BA. Principal—H. C. Batra, MA PhD BT. 32 Teachers.

RUPAR, *Govt. College*. IA, ISc, BA, BSc. Principal—P. C. Joshi, MSc PhD. 33 Teachers.

SANGRUR, *Ranbir College*. IA, ISc, BA. Principal—N. K. Aggarwal, MA. 24 Teachers.

SANGRUR, *Ranbir College for Women*. IA.

Principal—Mrs. J. K. Grewal, MA LLB BT. 7 Teachers.

SATHIALA (AMRITSAR), *National College*. IA, ISc, BA. Principal—B. L. Sharma, MA LLB. 9 Teachers.

SATNAMPURA (PHAGWARA), *Ramgarhia College*. IA, ISc, BA, MA. Principal—Amar Singh, MSc LLB. 26 Teachers.

SIDHWAN KHURD (LUDHIANA), *Khalsa College for Women*. IA, BA. Principal—Miss S. K. Avtar Singh, MA BT. 11 Teachers.

SIMLA, *Rana Padam Chand S.D. Bhargava College*. IA, ISc, BA, BSc, MA. Principal—A. R. Khanna, MA. 29 Teachers.

SIRSA, *National College*. IA, ISc, BA. Principal—I. M. Kapur, MSc. 16 Teachers.

SOLAN, *Govt. College*. IA, ISc, BA. Principal—R. M. Sharma. 12 Teachers.

SONEPAT, *Chhotu Ram Arya College*. IA, ISc, BA. Principal—S. N. Sanyal, MA BT. 22 Teachers.

SONEPAT, *Hindu College*. IA, ISc, BA, BSc. Principal—K. L. Malhotra, MA PhD. 52 Teachers.

TANDA URMAR, *Govt. College*. IA, ISc, BA. Principal—D. P. Gupta, MA Dipl. in French. 20 Teachers.

YAMUNA NAGAR, *D.A.V. College for Girls*. IA, BA. Offg. Principal—Pushpa Vati, MA Acharya. 9 Teachers.

YAMUNA NAGAR, *M.L. National College*. IA, ISc, BA. Principal—Tilak Raj, MA. 22 Teachers.

## PROFESSIONAL COLLEGES

AMBALA CITY, *Sohan Lal Training College*. BT; Dipl. in Gen. Sci. Principal—R. L. Ahuja, MA BT PhD. 12 Teachers.

AMRITSAR, *Dental College*. BDS. Principal—J. C. Manchanda. 12 Teachers.

AMRITSAR, *Khalsa College*. FEA (first exam. in agric.), BSc(Agric); Dipl. in Gen. Sci. Principal—Harbant Singh, BSc PhD. 11 Teachers.

AMRITSAR, *Khalsa Training College*. BT; Dipl. in Gen. Sci. Principal—Gurnam Singh, MA BT. 10 Teachers.

AMRITSAR, *Medical College*. MB BS, BSc; DTD, DOMS; Dipl. in Anæsth., Dipl. in Pharmacy and Dressers' Course. Principal—S. S. Anand, MB BS, FRCS, FACS. 93 Teachers.

AMRITSAR, *Sarswati Training College for Women*. BT. Principal—V. Puri, BA MT. 9 Teachers.

BAIJNATH, *J.S.D. Basic Training College*. BEd Basic. Principal—Miss K. Syal, MA MED Lond. 5 Teachers.

BHIWANI, *K.M. Teachers' Training College*. BT, BEd Basic. Principal—N. R. Aggarwal, MA BT. 9 Teachers.

BHIWANI, *Technological Institute of Textiles*. BSc(Textiles). Principal—D. L. Sen, MScTech Manc., MSc Bom., FRIC. 16 Teachers.

CHANDIGARH, *Govt. Basic Training College*. BEd Basic. Principal—V. S. Mathur, MA Lond., DipEd Camb. 18 Teachers.

CHANDIGARH, *Panjab Engineering College*. BSc (Engg) in civil, mech. and electr. engin.; MSc (Engg). Principal—R. N. Dogra, DIC, MSc (Eng) Lond., MIE(India). 77 Teachers.

CHANDIGARH, *Panjab University Law College*. LLB. Principal—U. C. Sarkar, MA ML LL.D. 19 Teachers.

DHARAMSALA, *Govt. Postgraduate Basic Training College*. BEd Basic. Principal—V. R. Taneja, MSc BT. 12 Teachers.

FARIDKOT, *Brijindra College*. BT, FEA (agric.). Principal—M. L. Khosla, MA BT. 10 Teachers.

**Faridkot, Govt. Training College.** BEd Basic. Principal—.....

**Ferozepore, Dev Samaj Training College for Women.** BT. Principal—D. Bir, MA BT. 13 Teachers.

**Gurusar Sadhar, G.H.G. Khalsa Training College.** BT. Principal—R. K. Arora, MA BT. 7 Teachers.

**Hissar, Panjab College of Veterinary Science and Animal Husbandry.** BVSc. Principal—P. S. Sahi. 37 Teachers.

**Jullundur, Govt. Training College for Teachers.** BT, MED. Principal—K. N. Datt, MA. 19 Teachers.

**Jullundur, Montgomery G.N. Basic Training College.** BEd Basic. Principal—D. V. Kapore, MA BT. 13 Teachers.

**Jullundur, University College of Commerce.** BCom. Principal—K. Dutta, MA Camb., BCom Lond. 7 Teachers.

**Karnal, Dairy Science College.** BSc(Dairying). Principal—N. Dastur, MSc PhD. 21 Teachers.

**Ludhiana, Christian Medical College.** MB BS Final. Principal—M. A. Casberg, MB BS Lond. 83 Teachers.

**Ludhiana, Govt. Agricultural College.** Agric.—FEA, BSc, MSc. Principal—K. S. Bedi. 40 Teachers.

**Ludhiana, Guru Nanak Engineering College.** BSc(Engg) in civil, electr. and mech. engin. Principal—Tara Singh, BSc(Eng) Lond. 47 Teachers.

**Ludhiana, Malwa Training College.** BT; Dipl. in Gen. Sci. Principal—Sher Singh, MA PhD. 12 Teachers.

**Moga, D.M. Training College.** BEd Basic; Dipl. in Gen. Sci. Principal—G. S. Puree, MA BT. 6 Teachers.

**Muksar, Khalsa Training College.** BEd Basic. Principal—Harnam Singh, MA BT. 6 Teachers.

**Nawanshahr Doaba, Dr. Amar Nath Training College.** BT; Dipl. in Gen. Sci. Principal—S. S. Lal Mehra, MA MED. 10 Teachers.

**Patiala, Dental College.** BDS—1st & 2nd Professional. Principal—Amarjit Singh, MD, MRCP. 7 Teachers.

**Patiala, Govt. Bikram College of Commerce.** BCom. Principal—R. Narain, MA BCom LLB. 6 Teachers.

**Patiala, Govt. College of Physical Education.** Dipl. in phys. educn. Principal—S. R. Mahindroo, BA. 3 Teachers.

**Patiala, Govt. Medical College.** MB BS, MD, MS. Principal—Amarjit Singh, MD, MRCP. 60 Teachers.

**Patiala, State College of Education.** MED, BEd Basic. Principal—J. N. Dudeja, Dip Educn/Admin Leeds, MA. 21 Teachers.

**Patiala, Thapar Institute of Engineering and Technology.** BSc(Engg) in civil, electr. and mech. engin. Principal—W. R. C. Coode-Adams, MA PhD Camb., MSc, FRIC, MIEE. 54 Teachers.

**Phagwara, Ramgarhia Training College.** BT. Principal—Sampuran Singh, MA DipEd Lond. 11 Teachers.

**Rewari, Ahir Training College.** BT. Principal—S. Swarup. 8 Teachers.

**Rohtak, All India Jat Heroes' Memorial College.** FEA (agric.). Principal—Lt.-Col. Tara Chand. 43 Teachers.

**Rohtak, Chhotu Ram College of Education.** BEd Basic; Dipl. in Gen. Sci. Principal—S. S. Gill, MA. 20 Teachers.

**Rohtak, Vaish College.** BCom. Offg. Principal—H. C. Batra, MA PhD BT. 14 Teachers.

**Sidhwan Khurd, Khalsa Basic Training College for Women.** BEd Basic. Principal—A. S. Sodhi, MA MED. 11 Teachers.

**Simla, Govt. Training College for Women.** BT. Principal—Miss A. Datta Gupta, Assoc Inst. of Educn., Lond., MED. 12 Teachers.

**Solan, Govt. Basic Training College.** BEd Basic. Principal—N. L. Kachroo, MA BT. 9 Teachers.

## GENERAL INFORMATION

Following the partition of the Panjab, the univ. was establd. in Oct. 1947, under ordinance No. VII, promulgated by the governor of the Panjab. This ordinance was subsequently replaced by the Panjab Univ. Act No. VII of 1947. At present the univ.'s jurisdiction extends over the Panjab and Himachal Pradesh.

All the univ. teaching depts. except journalism are now located in Chandigarh.

The univ. is a teaching, affiliating and examining body and is open to all, irrespective of colour, creed, class or sex.

**CONSTITUTION.** The univ. consists of the chancellor, vice-chancellor, senate, syndicate. The

governor of the Punjab is *ex-officio* chancellor of the univ. The vice-chancellor, apptd. by the chancellor, holds office for 3 yrs. but is eligible for reappnt. The senate have the entire management of, and superintendence over, the affairs and property of the univ. in accordance with the statutes, rules and regns. The executive govt. of the univ. is vested in the syndicate, which consists of the vice-chancellor as chairman, the dir. of public instrcn., Punjab, and 15 *ex-officio* or ordinary fellows elected by the facs. The registrar is chief executive officer of senate and syndicate.

**INCOME (1959-60).** Rs. 21,588,550 (state govt., Rs. 1,648,182; central govt., Rs. 2,774,253;

U.G.C. grants, Rs. 4,519,056; tuition, exam. & other fees, Rs. 12,647,059).

**FACULTIES AND DEANS.** *Agric.*, Dr. Arjan Singh; *arts*, Jodh Singh; *comm.*, Hon. Justice Teja Singh; *educn.*, I. M. Verma; *engin. & technol.*, R. N. Dogra; *law*, Dr. M. C. Mahajan; *med.*, S. S. Anand; *oriental learning*, Prof. D. C. Sharma; *sci.*, Prof. P. N. Mehra; *vet. sci.*, M. S. Malhi; dean of *univ. instructn.*, Dr. P. N. Mehra.

**LIBRARIES.** Univ. libr. (at Chandigarh): about 100,000 vols.

**LABORATORIES.** Bot., chem., geog., geol., maths., phys., psychol., zool., all at Chandigarh.

**TEACHING HOSPITALS** are attached to all 3 med. colls. in the state.

**ADMISSION.** The min. qualif. necessary for admission to the univ. is the passing of the matric. exam. or an exam. recog. as equivalent.

**FIRST DEGREES.** BA, BSc, BSc(Agri), 4 yrs. after matric.; BSc hons. sch. (in bot., chem., phys., zool.), 3 yrs. after inter. sci.; BPhil in Engl., maths., econ. and Sansk., 3 yrs. after inter.; BCom, BSc(Textiles), 3 yrs. after inter.; BSc (Dairying), 3 yrs. after inter. (non-med. group); BSc(Engg), BVSc, 4 yrs. after inter. sci.; BSc (ChemEngg), 4 yrs. after inter. (non-med. group); BPharm, 3 yrs. after inter. (med. group); MB BS, 5½ yrs. after inter. (med. group); BDS, 4 yrs. after inter. (med. group).

*Note.*—From 1961, students will be admitted to 3-yr. degree courses; other courses are being revised.

**HIGHER DEGREES.** BT, BEd, 1 yr. after grad.; LLB, 2 yrs. after grad.; LLB (final), 3 yrs. after grad. MA in Engl., maths., hist., pol. sci., econ., Sansk., Hindi, Panjabi, Persian, Arabic, Urdu, German, French, philos., psychol., geog., 2 yrs. after grad. MSc hons. sch. in phys., chem., bot., zool., chem. technol., 1 yr. after BSc hons. sch. MSc(Engg) in highway engin., 1 yr. after BSc(Engg). MSc(Agri), 2 yrs. after BSc(Agri). MCom, 2 yrs. after BCom. LLM, 1 yr. after LLB final. MED, 3 yrs. after BA, BT, or 1 yr. after MA, BT. MS, MD, by thesis and exam., 3 yrs. after MB BS. MPharm, 1 yr. after BPharm. MVSc, 3 yrs. after BVSc. PhD (arts and sci.), by thesis, 3 yrs. after master's degree. DLitt, DSc, by thesis, 6 yrs. after master's degree. DOL (oriental), 6 yrs. after master's degree. LLD, by res. after LLM degree. PhD (med.), by thesis and exam., 3 yrs. after MB BS.

**PRIVATE CANDIDATES.** Men in certain professions such as teaching, librarianship or univ. service may appear as private candidates in arts but not sci. Women may appear as private candidates in arts but not sci.; they may not appear for any professional exam., nor for the master's degree in sci.

**DIPLOMAS.** Pharmacy & dressers' course, 2 yrs. after matric.; French, a yrs. after inter.;

gen. sci., 2 yrs. after inter. sci.; journalism, phys. educn., each 1 yr. after 1st degree; anaesthesiol., ophthalmic med. & surg. (DOMS), tuberculosis dis. (DTD), each 1 yr. after MB BS or LMS; laryngol. & otol., in abeyance.

**CERTIFICATES** in oriental langs., each 1 yr.: Rattan, Bhushan, Prabhakar (in Hindi); Prajna, Visharad, Shastri (in Sansk.); Bhudiman, Vidwan, Gyani (in Panjabi).

**STUDY LEAVE** up to 2 yrs., on three-quarters' pay, is granted after 5 yrs.' permanent service.

**FEES** for tuition. BSc hons. sch., BScChem Engg, BPharm, BSc hons. geol., Rs. 15 p.m.; MA (incl. geog.), Rs. 15 p.m.; MA in psychol., MSc hons. sch., MPharm, MSc in geol., Rs. 25 p.m.

**ACADEMIC YEAR.** July to April, 3 terms. Term dates (approx.): July 13 to Sept. 19; Oct. 4 to Dec. 24; Jan. 2 to April 16.

**LANGUAGE OF INSTRUCTION.** Engl., except in classical and mod. Indian lang. classes, where the medium of instructn. is the lang. concerned or an allied lang. As part of the policy of replacing Engl. by Hindi and Panjabi, MA exams. in Hindi and Panjabi are conducted in the lang. concerned and the MA exam. in Sansk. in Sansk., Hindi and Panjabi. A candidate for the matric., inter., BA, BCom exams. can choose Engl. and any one of the Indian langs. (Urdu, Hindi or Panjabi) for papers in subjects other than Engl.

**EXTENSION LECTURES.** The univ. invites specialists to address the students in various colls. under the scheme of the Univ. Grants Commission.

**ENTRANCE SCHOLARSHIPS.** 154 scholps. are awarded on the results of the matric. exam. and 70 on those of the inter. exam.

**STUDENT RESIDENCES.** Every affiliated coll. has a hostel attached. No student is admitted until his residence is arranged. Every student of a coll. not living with parents or guardians must reside during teaching period at an approved hostel or lodge. There are 4 hostels (accomm 1320) on the univ. campus at Chandigarh.

**STUDENT HEALTH.** Each affiliated coll. has a med. officer.

**SPORT.** The dir. of phys. trg. is in charge of the phys. welfare of male students; the directress is in charge of that of female students. In addn., each affiliated coll. has a phys. dir. who conducts sports and other phys. activities among students of the coll.

**NATIONAL CADET CORPS.** A no. of N.C.C. bns. have been allotted to 73 colls. for men. This corps has taken the place of the univ. O.T.C. Members of the N.C.C. may offer military trg. as addnl. optional paper (in place of addnl. optional vernacular) for the inter. and degree exams.

**FOREIGN INFORMATION BUREAU.** The univ. foreign information bureau deals with enquiries about professional studies, technical trg. and facilities for higher res., from students who wish

to go abroad for further study at their own expense.  
Sec. : J. R. Agnihotri, BA Oxon., MA.

**WELFARE DEPARTMENT.** To organize the welfare activities of the students, the univ. has set up a separate youth welfare dept. at Chandigarh.

**PUBLICATION BUREAU.** Started in 1948 to prepare and encourage the publicn. of standard works in Hindi and Panjabi.

**PUBLICATIONS.** *Calendar* ; *Univ. News* (every 2 mos.) ; *Arts and Sci. Journals* (from time to time).

A UNIVERSITY PRESS has been set up to deal with most printing work except books. New machines are being installed so that books may be printed at the press.

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	51,687	3777
Women . . .	10,718	69
Total	62,405	3846

Distribution by Faculties. *Agric.*, 922 ; *arts*, 38,258 ; *comm.*, 254 ; *educn.*, 2388 ; *engin. & technol.*, 1694 ; *law*, 718 ; *med.*, 1390 ; *oriental*, 100 ; *sci.*, 20,183 ; *vet. sci.*, 344. Total : 66,251.

Included in the figures above are :—

Intermediate students, 41,168.

Postgraduate students, 2250.

New admissions, 40,821.

Students from other countries, 79. (Countries from which largest numbers came : Africa, 33 ; Nepal, 8 ; Burma, 4).

**DEGREES AWARDED (1958-59).** BA, 8603 ; BSc, 759 ; BSc hon. sch., 78 ; BSc(Engg), 55 ; BCom, 47 ; BSc(Agri), 111 ; LLB, 164 ; LLB (final), 169 ; BVSc, 78 ; BPharm, 21 ; BT, 1694 ; BEd, 776 ; MA, 2069 ; MB BS, 181 ; BDS, 12 ; BSc(Textiles), 47 ; MEd, 22 ; MSc hon. sch. 68 ; MSc(Agri), 19 ; MScEngg (highway), 3 ; PhD (all facs.), 19.

**DIPLOMAS AWARDED (1958-59).** DPE, 46 ; journalism, 42 ; DTD, 3.



# PATNA UNIVERSITY\* §

Founded 1917

*Postal Address* : Patna 5, Bihar State, India

*Cables and Telegrams* : Patversity, Bihar State

*Telephones* : Registrar, Patna 2322 ; Office, Patna 4101

CHANCELLOR—H.E. THE GOVERNOR OF BIHAR (*ex officio*)

VICE-CHANCELLOR—B. N. RAI

TREASURER—R. C. SINGH, MSc

REGISTRAR—J. SAHAY, TD Lond., MA

BUDGET AND ACCOUNTS OFFICER—PANDEY S. K. SHARMA, MA DipEd

DEPUTY REGISTRAR—S. Y. HUSSAIN, BA

## HEADS OF UNIVERSITY TEACHING DEPARTMENTS

<b>Anatomy</b>		<b>Geography</b>	
Sinha, T. P., MS Penn.	Prof.	Dayal, P., MA PhD Lond.	Prof
<b>Ancient Indian History and Culture</b>		<b>Geology</b>	
Sinha, B. P., MA PhD Lond.	Prof.	Chatterji, S. C., DSc Calc., FNI	Tata Prof
<b>Applied Economics and Commerce</b>		<b>Hindi</b>	
Misra, B. R., MA LLB PhD DSc Lond.	Prof.	Sharma, N. V., MA	Lectr.
<b>Arabic</b>		<b>History</b>	
Quddus, H. M., DipOS <i>Sch.of O.&amp;A.</i> <i>Studies</i> (Lond.), MA DipEd	Asst. Prof.	Mishra, Y., MA PhD	Asst. Prof., Actg. Hd.
<b>Bengali</b>		<b>Labour and Social Welfare</b>	
Ghoshal, S. N., MA PhD	Reader	Sinha, G. P., MA PhD	Lectr., Actg. Hd.
<b>Botany</b>		<b>Maithili</b>	
Roy, R. P., MSc PhD Camb.	Prof.	Jha, S., MA PhD Lond.	Prof.
<b>Chemistry</b>		<b>Mathematics</b>	
Sinha, P. C., MSc PhD	Prof.	Nath, N. S. N., MSc PhD Camb.	Prof.
<b>Economics</b>		<b>Medicine</b>	
Jha, D., MA	Prof.	Das, M., MB BS DTM DMRE, MRCP	Prof.
<b>Education</b>		<b>Obstetrics and Gynaecology</b>	
Prasad, R., MSc MED	Prof.	John, Mary P., FRCOG	Prof.
<b>English</b>		<b>Ophthalmology and Otorhinolaryngology</b>	
Sinha, R. K., MA DPhil Oxon.	Prof.	Sinha, A. K., MS DLO	Lectr., Actg. Hd.

\* Member of the Association of Universities of the British Commonwealth.

§ Since this entry was revised, the Patna Univ. Act, 1951, and the Bihar Univ. Act, 1951, have been repealed and in their places respectively, 4 univs. (one in (1) Bihar Univ., Muzaffarpur designed as a teaching and affiliating univ.

<b>Pathology</b>		<b>Psychology</b>	
Prasad, G., DTM <i>Liv.</i> , DCP <i>Lond.</i> , BSc MD, MRCP	Prof.	Abdin, M. Z., BA <i>Lond.</i>	Prof.
<b>Persian</b>		<b>Sanskrit</b>	
Hussain, I., MA BL PhD	Prof.	Pandey, C. K., MA	Asst. Prof.
<b>Pharmacology</b>		<b>Sociology</b>	
Achari, G., MD PhD	Prof.	Prasad, N., MA <i>Col. &amp; Patna</i> , DLitt	Reader
<b>Philosophy</b>		<b>Statistics</b>	
Jha, H. M., MA	Prof.	Lal, D. N., MA PhD	Reader
<b>Physics</b>		<b>Surgery</b>	
Singh, B. N., DSc <i>Ban.</i>	Prof.	Singh, V. N., MB BS, FRCS	Prof.
<b>Physiology</b>		<b>Urdu</b>	
Sinha, A. S., PhD <i>Lond.</i> , MD	Prof.	Orainvi, S. A. A., MA DLitt	Asst. Prof.
<b>Political Science</b>		<b>Zoology</b>	
Muhar, P. S., MA PhD <i>Harv.</i>	Reader	Keshava, S., PhD <i>Edin.</i> , MSc	Prof.

## ADMINISTRATIVE AND OTHER STAFF

Administrative Officer : R. P. Sinha, BA BL.

## CONSTITUENT COLLEGES

[† Part-Time ; BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

BANKIPORE (PATNA), *Bihar National College* (tel. : 4369). BA, BSc. Principal—D. P. Vidyarthi, MA PhD *Lond.* Profs. : ENGL.—S. R. Prasad, MA ; HIST.—B. P. Mazumdar, MA PhD ; HINDI—T. N. Singh, MA ; SANSK.—V. Shastri, MA (on leave) ; PERS.—A. Khair, MA ; URDU—S. N. Karim, MA ; ECON.—S. K. Bose, MA ; PSYCHOL.—K. K. Jamuar, MA ; POL.—S. L. Singh, MA ; MATHS.—L. M. M. Prasad, MA ; PHILOS.—A. K. Verma, MA ; CHEM.—J. C. Banerjee, MSc PhD *Lond.* ; PHYS.—Baidya Nath, MSc ; BENGALI—J. N. Ghosh, MA. 71 other Profs. and Lectrs.

BANKIPORE (PATNA), *Magadh Mahila College* (tel. : 3454). BA. Principal—Mrs. Ramola Nandi, MSc *Lond.*, MA ; HINDI—Lectr. : Mrs. Vidyawati Gupta ; ENGL.—Ila Rani Mallick, MA (on leave) ; HIST.—Mrs. Jyotirmoyee Basu, MA ; ECON.—Mrs. Ashalata Bose, MA ; CHEM.—Miss Rani Misra, MSc PhD ; PHYS.—Mrs. Pratima Sanyal, MSc ; BOT.—Mrs. Beatrice S. Dutta, MSc ; ZOOL.—Mrs. Gauri Ganguly, MSc PhD ; PHILOS.—Miss Anima Sen Gupta, MA PhD ; PSYCHOL.—Mrs. Sharda Sinha, MA ; POL. SCI.—Mrs. Bhagyawati Singh, MA ; SANSK.—Mrs. Aditi De, MA ; BENGALI—Miss Aruna Roy, MA ; DOM. SCI.—Mrs. Pramila Verma, MA ; MUSIC—Uma Rauth, MA. 13 other Lectrs.

BANKIPORE (PATNA), *Patna Training College* (tel. : 4425). Dipl. in educn. Principal—D. P. Gupta, PhD *Bihar*, MA MEd. 4 other Teachers.

BANKIPORE (PATNA), *Patna Women's Training College* (tel. : 2712). Dipl. in educn. Principal—Mrs. Shakuntala Sinha, MA DipinEd. 4 other Teachers.

BANKIPORE (PATNA), *Prince of Wales' Medical College* (tel. : 2284). MB BS, MD, MS. Principal—G. Prasad, DTM *Liv.*, DCP *Lond.*, BSc MD, MRCP. Profs. : OPHTHALMOL.—A. K. Sinha ; ANAT.—M. Haque, MB BS ; BIOCHEM.—A. Sharan, PhD *Leeds*, MB BS ; PHYSIOL.—M. P. Sinha, MD *Zür.*, MB BS ; PREV. AND SOC. MED.—J. P. Agrawal, DTM&H *Liv.*, DPH *Lond.*, MB BS ; MED.—M. Das, MRCPEd ; SURG.—R. V. P. Sinha, MS, FRCS ; PHARMACOL.—B. K. Achary, MD ; PATHOL.—A. K. Guha ; FORENSIC MED.—R. Hussain, BSc MB BS ; OBSTET. AND GYNÆCOL.—S. N. Upadhyaya, BS MD. 40 other Profs. and Lectrs.

MAHENDRU (PATNA), *Bihar College of Engineering* (tel. : 2185). BSc(Eng). Actg. Principal—D. N. Singh, BSc(Eng) PhD. 41 other Profs. and Lectrs.

MAHENDRU (PATNA), *Law College* (tel. : 2368). BL. Principal—V. V. Deshpande, MA LL.M.

**Bom.** Vice-Principal—S. A. Varis, MA *Camb.* 25 other † Lectrs.

PATNA, *Institute of Music*. Cert. in music. Dir.—L. N. Kapoor; 1 Instr.

PATNA, *Institute of Psychological Research and Service*. Dir.—.....; A. K. P. Sinha, MA PhD (in charge).

PATNA, *Institute of Public Administration*. Dir.—Prof. P. S. Muhar, MA PhD *Harv.*; Asst. Dir.—S. P. Srivastava, MA.

PATNA, *Patna College* (tel.: 4329). BA, BCom. Principal—K. K. Dutta, MA PhD. Hds. of Depts.: HINDI—S. N. Prasad, MA DLitt; SANSK.—B. Jha, MA; ENGL.—K. P. Ambastha, MA PhD *Edin.*; HIST.—Prof. S. H. Askari, MA PhD; PSYCHOL.—T. Nath, MA; ARABIC—A. A. Kazimi, MA; PERSIAN—.....; URDU—S. M. Sadruddin, MA; MAITHILI—A. Mishra, MA; ECON.—R. N. Tripathi, MA PhD *Lond.*;

MATHS.—S. C. De, MA PhD; POL. SCI.—T. B. Mukherjee, MA PhD. 46 other Profs. and Lectrs.

PATNA, *Patna Women's College* (tel.: 2186). BA. Principal—Sister Mary Lucile, MA *Lond.* Profs.: ECON.—Rev. Sister Mary Florence; GEOG.—Sister Honarine; MATHS.—Miss Abha Mitra; PHILOS.—Mrs. Aruna Haldar, MA; HIST.—Rev. Sister Mary Scholastica; HINDI—Mrs. Jamuna Verma, MA; CHEM.—Sister Marialla; PHYS.—Miss Bodapati V. Sitakumari; BENGALI—Miss Bela Sen Gupta, MA; SANSK.—Miss Roma Bose, MA; URDU—Mrs. Maimoona Jafri, MA. 17 other Lectrs.

PATNA, *Science College* (tel.: 2242). BSc. Principal—M. Q. Doja, BA *Camb.* Hds. of Depts.: MATHS.—V. R. Chariar, DSc; GEOL.—A. P. Jain, MSc; ZOOL.—R. K. Sharan, PhD *Edin.*, MSc; BOT.—J. P. Sinha, PhD *Lond.*, MSc; PHYS.—L. M. Chatterjee, MSc; CHEM.—B. P. Gyani, PhD *Lond.* & *Patna*, MSc; ENGL.—K. N. Misra, MA; HINDI—A. Sinha, MA. 56 other Profs. and Lectrs.

## GENERAL INFORMATION\*

Founded as a teaching and affiliating univ., 1917. Most of the teaching was originally conducted in the 'admitted colleges'. Since 1952 the univ. has been teaching and residential under the Patna University Act, 1951, with its jurisdiction within the Patna corporation area.

**CONSTITUTION.** The authorities of the univ. are the senate, syndicate, academic council, facs., bd. of courses & studies, and such other authorities as may be constituted by the statutes from time to time.

**INCOME** (1958-59). Total income Rs. 8,537,757 (govt. sources, Rs. 5,785,245; fees, Rs. 1,866,161; endowments, Rs. 22,500; other sources, Rs. 863,851).

**FACULTIES AND DEANS.** *Arts*, Prof. I. Hussain (Persian); *comm.*, Prof. B. R. Misra (appl. econ.); *educn.*, D. P. Gupta; *engin.*, R. K. Verma; *law*, V. V. Deshpande; *med.*, Prof. G. Prasad (pathol.); *sci.*, B. N. Singh (phys.).

**LIBRARY.** 96,203 vols.

**ADMISSION.** For admission to inter. courses, students are required to have passed the secondary sch. exam. or an exam. recog. by the univ. as equivalent. For admission to a degree course students must have passed the inter. exam. or equivalent.

**Note.**—With effect from July 1961, the univ. has introduced a 3-yr. degree course, to the 1st yr. (pt. I) of which a candidate will be eligible for admission only if he has passed the pre-univ. exam. in arts, sci. and comm., or the higher sec. sch. exam., or other exam. recognized as equivalent thereto. Complete course lasts 3 yrs. with

univ. exam. at end of each yr. Pre-univ. course: 1 yr.

**FIRST DEGREES.** BA, BA (hons.), BCom, BSc (Eng), BL, BSc, BSc (hons.), 2 yrs. from inter. MB BS, 5 yrs.

**HIGHER DEGREES.** MA, MCom, MSc, MSc (MedSc), 2 yrs. from corresp. bachelor's degree. MED, 1 yr. from dipl. in educn. Research degrees: PhD (in arts, comm., educn., med., sci.), DLitt, DSc, MD, MS.

**DIPLOMAS.** Pub. admin., educn., internat. relns., tuberculous dis. (DTD), child health (DCH), ophthalmol. (DO), laryngol. & otol. (DLO), anæsthesiol. (DA), gynæcol. (DGO), clin. pathol. (DCP): 1 yr.

**CERTIFICATE.** Music, 3 yrs.

**STUDY LEAVE.** The univ. grants leave each yr to a number of teachers for higher studies abroad. In addn., leave on half average pay is also granted. A revolving fund has also been created to grant interest-free loans to univ. teachers for study abroad.

**FEES.** MA, MCom, Rs. 150 p.a.; MSc, Rs. 168 p.a.

**ACADEMIC YEAR.** June to May (3 terms).

The USUAL LANGUAGE OF INSTRUCTION is Hindi up to bachelor degree standard and English at postgrad. level.

**PUBLICATIONS** (all annual). *Calendar*, Rs. 4; *Minutes*, Rs. 2; *Courses of Studies* for each Exam., 50 n.p.; *Question Pamphlets* (each exam., 50 n.p.); *Regulations*, R. 1; *Readership Lectures* (on a variety of subjs.), R. 1: 25 n.p. to Rs. 12.

\* See also footnote to p. 562

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	8,537	—
Women . . .	1,824	—
<b>Total . . .</b>	<b>10,361</b>	<b>—</b>

Distribution by Faculties. *Arts*, 5790 ; *comm.*, 422 ; *educn.*, 243 ; *engin.*, 417 ; *law*, 620 ; *med.*, 791 ; *sci.*, 2078. Total : 10,361.

*Included in the figures above are :—*

Intermediate students, 3389.

Postgraduate students, 2005.

New admissions, 5113.

Students from other countries, 21.

DEGREES AWARDED (1958-59). *Arts* : BA, 806 ; MA, 647 ; DLitt, 2. *Comm.* : BCom, 103 ; MCom, 74. *Educn.* : MEd, 22. *Engin.* : BSc, 48. *Law* : BL, 149. *Med.* : MB BS, 107 ; MSc(MedSc), 1 ; MS, 18 ; MD, 10. *Sci.* : BSc, 163 ; MSc, 135. PhD (all facs.) : 7.

DIPLOMAS AWARDED (1958-59). *Educn.*, 193 ; pub. admin., 2 ; anæsthesiol., 4 ; child health, 5 ; clin. pathol., 3 ; gynæcol. & obstet., 1 ; laryngol. & otol., 3 ; ophthalmol., 4 ; 'TB dis., 2.

CERTIFICATES AWARDED (1958-59). *Music*, 1.

# UNIVERSITY OF POONA

Founded 1948

Postal Address : Ganeshkhind, Poona 7, Maharashtra State, India

Telegrams : Unipuna

Telephones : Poona, 6061-3

CHANCELLOR—SRI PRAKASA, Governor of Maharashtra

VICE-CHANCELLOR—Professor D. G. KARVE, MA

DEANS OF FACULTIES—AGRICULTURE—Professor G. N. PHADATARE, BA *Bom.*, MS *Corn.* ; ARTS—Professor R. N. DANDEKAR, MA *Bom.*, PhD *Berl.* ; AYURVEDA—Dr. B. C. LAGU ; ENGINEERING—Principal G. V. VARTAK, BE ; LAW—Principal G. V. PANDIT, MA LL.M. ; MEDICINE—Principal B. M. DESAI, MS *Bom.* ; MENTAL, MORAL AND SOCIAL SCIENCES—Professor D. D. VADEKAR, MA, SCIENCE—Professor N. R. KULKARNI, MSc

REGISTRAR—W. H. GOLAY, BA *Bom.*, DipEngl DipJournalism *Lond.*

## TEACHING STAFF

[Teachers apptd. by the univ.]

### Botany

Mahabale, T. S., BA MSc PhD, FNI Univ. Prof.  
Balakrishnan, M. S., MA MSc Univ. Reader  
David, S. B., MSc PhD Univ. Reader  
Javalgikar, S. R., MSc Lectr.  
Varhadpande, D. G., MSc Lectr.  
Parthasarathi, M. V., MSc Lectr.

### Chemistry

Kulkarni-Jatkar, S. K., DSc, FRCS, FIP Univ. Prof.  
Narasimhan, BSc PhD Univ. Reader  
Phansalkar, V. K., MSc PhD Reader  
Joshi, P. N., MSc PhD (on leave) Lectr.  
Marathe, K. G., MSc PhD Lectr.  
Kaulgud, M. V., MSc PhD Lectr.  
Kale, N. R., MSc Lectr.

### Experimental Psychology

Kothurkar, V. K., MA *Bom.*, BA *Camb.* Univ. Reader

### French

Sohoni, Y. K., BA BSc Lectr.

### Geography

Gananathan, V. S., MA *Madr.* & *Syr.* Univ. Reader

Kshirsagar, K. P., MA Lectr.  
Ramamurthi, K., BA MLitt LT Lectr.  
Gupte, S. C. Lectr.

### German

Jankowsky, K., PhD Lectr.  
Kulkarni, B. B., MA Lectr.

### Hindi

Bhagirath Mishra, MA PhD Univ. Prof.  
Jogalekar, N. C., MA Lectr.

### Linguistics

Kulkarni, E. D., MA PhD Univ. Reader  
Sen Neelmadhav, MA PhD Univ. Reader  
Panse, M. G., MA PhD Lectr.  
Vale, R. N., MA PhD Lectr.

### Marathi

Tulpule, S. G., MA PhD *Bom.* Univ. Prof.

### Mathematics

Huzurbazar, V. S., MA PhD *Camb.*, FNI Univ. Prof.  
Venugopal Rao, V., MSc PhD Univ. Reader  
Bhaskar, V. P., MSc Univ. Reader  
Adke, S. R., MSc (on leave) Lectr.  
Dharmadhikari, S. W., MSc (on leave) Lectr.  
Deshpande, S. V., MSc Lectr.  
Raja Rao, G., MSc PhD Lectr.  
Vaidya, A. N., MSc Lectr.

### Physics

Chiplonkar, M. W., DSc Univ. Prof.  
Laud, B. B., MSc PhD Univ. Reader  
Takavale, R. G., MSc Lectr.

### Politics

Garde, D. K., MA DLitt Univ. Prof.

Sirsikar, V. M., MA  
Inamdar, N. R., MA PhD

Univ. Reader  
Lectr.

**Zoology**

Karandikar, K. R., MSc PhD Univ. Prof.  
Mulherkar, Miss Leela, MSc PhD Edin.

**Sanskrit**

Dandekar, R. N., MA Bom., PhD Berl.  
Univ. Prof.

Ranade, D. R., MSc  
Tonpi, G. T., MSc PhD Univ. Reader  
Lectr.  
Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Dep. Registrar : R. S. Sardeshpande, BA.  
Asst. Registrar : R. B. Manerikar, MA LLB.  
Librarian : K. S. Hingwe, DipLibSc Madr.,  
MA. Controller of Exams. : D. G. Ramdasi,  
BA. Sec., Foreign Univ. Information and Em-  
ployment Bureau : A. B. Arlic, BSc. Sec., Bd.  
of Extra-Mural Studies : A. V. Naik, MA PhD.

Sec., Bd. of Sports : V. N. Bhide, BSc. Asst.  
to the Registrar : G. M. Watve, MA. Statistician :  
B. B. Kurnthekar, BA. Office Supts. : G. J.  
Abhyankar, BA ; K. S. Venkatkrishnan ; B. D.  
Potdar, BA. Manager, Univ. Press : S. R.  
Paranjape.

**CONSTITUENT DEGREE COLLEGES**

[PD, BA, etc., after the name of a coll. means that courses are provided there for  
Pre-Degree Arts, Science & Commerce, BA, etc.]

POONA, *Ayurveda Mahavidyalaya*, Poona 2  
(tel. : 2240) (1933). BAM&S. Principal—K. V.  
Kulkarni. 44 Teachers.

POONA, *B. J. Medical College*, Poona 1 (tel. :  
3189) (1946). MB BS, MS, MD. Dean—C. L.  
Modi, FRCS. 39 Teachers.

POONA, *Brihan Maharashtra College of Com-  
merce*, Poona 5 (tel. : 3343) (1943). BCom,  
MCom. Principal—N. A. Mavalankar, MA LLB.  
20 Teachers.

POONA, *College of Agriculture*, Poona 5 (tel. :  
2561) (1908). BSc(Agri). Principal—A. A.  
Memon, MSc(AgriEng) Ill. 52 Teachers.

POONA, *College of Engineering*, Poona 5 (tel. :  
2685) (1854). BE (civil, mech., electr., metall.  
and telecommn.), ME (civil, mech., electr.,  
metall. and telecommn.). Principal—G. V.  
Vartak, BE. 63 Teachers.

POONA, *Fergusson College*, Poona 4 (tel. : 3112)  
(1885). BA(gen. & spec.), BSc, MSc(res.), PhD.  
Principal—S. V. Kogekar, BSc(Econ) Lond. 48  
Teachers.

POONA, *Law College*, Poona 4 (tel. : 2110)  
(1924). LLB, LLM. Principal—G. V. Pandit,  
MA LLM. 7 Teachers.

POONA, *M.E. Society's College of Arts and  
Science*, Poona 4 (tel. : 2411) (1945). IA,  
BSc(gen.). Principal—M. N. Bhat, MA LT.  
14 Teachers.

POONA, *Novrosjee Wadia College*, Poona 1  
(tel. : 2924) (1932). BA(gen. & spec.), BSc(gen.),  
TD. Principal—P. R. Darnle, MA. 31 Teachers.

POONA, *Shri Shahu Mandir Mahavidyalaya*,  
Poona 2 (1960). PD. Principal—M. P. Man-  
gudkar, MA PhD.

POONA, *Sir Parashurambhau College*, Poona 2  
(tel. : 2998) (1916). BA(gen. & spec.), BSc(gen.).  
Principal—S. G. Hulyalkar, BA Bom., MA Lond.  
37 Teachers.

POONA, *Tilak College of Education*, Poona 2  
(tel. : 3603) (1941). BT, MEd, PhD (in educn.).  
Principal—N. V. Patankar, MA MEd. 16  
Teachers.

**AFFILIATED COLLEGES**

AHMEDNAGAR, *Ahmednagar College* (1947).  
BA(gen. & spec.), BSc(gen.), MA. Principal—  
T. Barnabas, MSc. 20 Teachers.

AMALNER, *Pratap College* (1945). BA(gen. &  
spec.), BSc(gen), MA, MSc(res. in bot.). Prin-  
cipal—K. Z. Lad, MSc. 18 Teachers.

BARSI, *Shri Shivaji Mahavidyalaya* (1960).  
PD. Principal—S. D. Bhawe, MSc.

DHULIA, *Arts & Science College* (1956). IA.  
Principal—M. Y. Vaidya, MA LLB. 24 Teachers.

JALGAON, *Mooljee Jaiitha Arts & Science College*  
(1945). BA(gen. & spec.), BSc(gen.), MA. Prin-

cipal—Y. S. Mahajan, BSc(Econ) Lond. 23  
Teachers.

KARAD, *Govt. Polytechnic* (1960). BE. Prin-  
cipal—G. V. Sapre, BE.

KARAD, *Sadguru Gadage Maharaj College*  
(1954). IA. Principal—S. R. Shinde, MA. 7  
Teachers.

KOLHAPUR, *College of Commerce* (1957). ICom.  
Principal—B. S. Bhanage, MA. 9 Teachers.

KOLHAPUR, *Gopal Krishna Gokhale College*  
(1950). IA. Principal—B. H. Khardekar, MA.  
16 Teachers.

KOLHAPUR, *Rajaram College* (1880). BA(gen. & spec.), BSc(gen.), MA, MSc, PhD. Principal—B. R. Dhekney, MA PhD. 45 Teachers.

KOLHAPUR, *Shahaji Law College* (1933). LLB, LL.M. Principal—S. V. Apté, MA LLB. 7 Teachers.

KOLHAPUR, *Shree Maharani Tarabai Teachers' College* (1934). BT. Principal—N. R. Parasnis, MA BT PhD. 9 Teachers.

NASIK, *B.Y.K. Commerce College* (1957). Principal—M. S. Gosavi, MCom LLB. 13 Teachers.

NASIK, *Hansraj Pragji Thackersey College* (1924). BA(gen. & spec.), BSc(gen.), MA, PhD. Principal—S. G. Puranik, MA. 22 Teachers.

PANDHARPUR, *Pandharpur College* (1960). PD. Principal—B. A. Chaugule, MA.

PHALTAN, *Mudhoji College* (1957). Principal—D. H. Oke, MA LLB. 14 Teachers.

RATNAGIRI, *R.P. Gogate College* (1945). BA (gen. & spec.), BSc(gen.), TD. Principal—V. K. Bavadekar, MSc. 19 Teachers.

SANGLI, *Chintamanrao College of Commerce* (1960). PD. Principal—D. A. Dabholkar, MA.

SANGLI, *New Engineering College* (1947). BE(Civil). Principal—V. K. Kelkar, BE, MIE (India). 25 Teachers.

SANGLI, *Sangli College* (1960). PD. Principal—V. P. Damle, MSc.

SANGLI, *Willingdon College* (1919). BA(gen. & spec.), MA, BSc(gen.), MSc (in maths.). Principal—N. V. Vaidya, MA. 20 Teachers.

SATARA, *Chhatrapati Shivaji College* (1947). IA, ISc, TD. Principal—P. G. Patil, MA. 11 Teachers.

SATARA, *College of Education* (1955). BT. Principal—A. B. Magdum, MA MEd.

SHOLAPUR, *Dayanand College* (1940). BA (gen. & spec.), BSc, MA, PhD. Principal—Bhagavandas, MA. 36 Teachers.

SHOLAPUR, *Dayanand College of Commerce* (1952). BCom. Principal—T. B. Narasimhachari, MA. 13 Teachers.

SHOLAPUR, *Dayanand College of Education* (1955). BT. Principal—K. S. Mardikar, MA PhD MEd. 15 Teachers.

SHOLAPUR, *Sangameshwar College* (1953). PD, BA, BSc. Principal—K. Bhogishayan, MA. 13 Teachers.

SHRIRAMPUR, *Narayanrao Borawake College* (1960). PD. Principal—S. K. Unune, MA.

## CONSTITUENT RECOGNIZED INSTITUTIONS

(for postgraduate research)

POONA, *Armed Forces Medical College*, Poona 1. DPh, MD in med., MD in pathol., MS. Commandant—Major-General C. C. Kapila, OBE, MB BS Rangoon, DMRE Camb., MRCP.

POONA, *Bhandarkar Oriental Research Institute*, Poona 4 (tel.: 2336) (1917). Prepares res. students for PhD in Sansk. Dir.—C. R. Devadhar, MA. 2 Teachers.

POONA, *Deccan College Postgraduate & Re-*

*search Institute*, Poona 6 (tel.: 2145) (1934). Prepares res. students for PhD in Sansk., linguistics, anc. Indian culture, Maratha hist., archaeol., sociol. and anthropol. Dir.—H. D. Sankalia, MA PhD. 9 Teachers.

POONA, *Gokhale Institute of Politics & Economics*, Poona 4 (tel.: 3729) (1930). Prepares res. students for PhD in econ. Dir.—D. R. Gadgil, MA MLitt Camb. 4 Teachers.

## RECOGNIZED INSTITUTION

POONA, *Gargoti G.K. Institute of Rural Education* (1958). Prepares res. students for MEd and

PhD in educn. (with sp. reference to rural problems). Dir.—Mrs. Chitra Naik, PhD. 4 Teachers.

## GENERAL INFORMATION

In 1924, the Setalvad Cttee. on University Reforms, which recommended the establishment of regional univs. in the province of Bombay, pointed out the suitability of Poona as such a univ. centre. It was not until 1942, however, that the provincial govt. appointed a cttee. to report on the form, constitution, jurisdiction and financial implications of a univ. for Maharashtra. Although the cttee. submitted its report in the

following year, difficulties created by the second world war prevented its implementation and it was not until 1948 that the Univ. of Poona was establd.; it occupied the old Government House, at Kirkee, which was provided by the Bombay govt. Though situated in Poona, the univ.'s activities are spread over the 12 districts inhabited by the Marathi-speaking people. It is intended, as the report of the cttee. which framed its scheme

observed, that the 'univ. will keep in view the special needs, interests and traditions of Maharashtra and its people without losing sight of its essential character as a university, i.e. a seat of universal learning which recognizes no frontiers except those of the human mind itself'.

The univ. is neither a purely affiliating nor a purely unitary and teaching univ. It combines the features of both these types. It aims at creating for the Poona area a central teaching organization beyond the inter. stage, and the whole of the postgrad. teaching and res. work in the entire univ. area is conducted under its direct control. But up to the inter. stage in the Poona area and the grad. stage in outside places, instruction continues to be given by the constituent and affiliated colleges subject only to the general supervision of the univ. It is not contemplated that all the staff, equipment and bldgs. of such post-inter. colls. in Poona will belong to the univ., which will, however, be able to draw freely on these resources. The univ.'s library, labs. and full-time teaching staff are used mainly for postgrad. teaching and res. in selected subjects.

**CONSTITUTION.** Among the distinctive features of the constitution of the univ. is its provision for the widest representation of the various elements in the life of the region in the composition of the court, the general legislative and deliberative univ. body. Linking academic and non-academic sides is the executive council, which possesses complete control over the finances and routine working of the univ. Apart from its general direction of policy, the court has no control over the day-to-day business of the univ.

**INCOME (1958-59).** Recurring : Rs. 4,263,850 (incl. govt. grants, 28 per cent., exam. fees, 34 per cent., tuition fees, 30 per cent.). Non-recurring govt. grants : Rs. 2,716,887.

**FACULTIES AND DEANS.** See p. 566.

**LIBRARIES.** Univ. libr. : approx. 68,005 vols. Librs. of affiliated colls. and institutions : total of approx. 575,000 vols.

**ADMISSION.** The univ., which does not hold an entrance exam. of its own, admits students who have passed the matric. or entrance exam. of any other statutory univ. in the state of Bombay. The univ. conducts the pre-degree exam. which precedes the 3-yr. integrated degree course leading to the BA, BCom and BSc exams. There is no discrimination on the ground of sex, race, creed, class or religious or political belief.

**FIRST DEGREES.** Yrs. of study after S.S.C. : 4 yrs.—BA(general), BA(spec.), BSc(general), BCom, BSc(Agri), LLB ; 5 yrs.—BSc (hons.), BE(civil, electr., mech., metall., telecommn.) ; 6½ yrs.—BAM&S(Ayurvedic med.) ; 7 yrs.—MB BS.

**Note**—The univ. has now adopted the 3-yr. integrated degree course leading to the BA, BCom and BSc degrees.

**HIGHER DEGREES.** 1 yr.—BT ; 2 yrs.—LLB (if taken after 1st degree), MA, MSc, MSc(Agri),

MCom ; 3 yrs.—MEd (only 2 yrs. if taken after BT), MD, MS ; 4 yrs.—LLM. Also PhD, 2 yrs. after MA or MSc ; DSc, 2 yrs. after PhD ; DLitt.

**EXTERNAL DEGREES.** BA(External), MA(External), MSc(External) (maths. only), BCom(External), MCom(External), LLM(External). Gainfully employed persons, and married women, residing within the univ. area, are eligible to appear for these exams. externally, i.e. without keeping terms at any of the affiliated colls. The duration of the degree course is 6 yrs. from the entrance exam. as compared with 4 yrs. for regular internal students. A candidate appearing for the 3-yr. integrated degree course externally can complete the course within 6 yrs. incl. the yr. of pre-degree exam. He qualifies for the master's degree after a further period of 3 yrs. For any of these 6 exams., students have to pay a registration fee of Rs. 16 in the yr. previous to yr. of exam.

**DIPLOMAS.** 1 yr.—TD, libr. sci., French (lower), German (lower) ; 2 yrs.—French (higher), German (higher), music, oriental learning, DPH, DCP.

**CERTIFICATES.** 1 yr.—French, German.

**POSTGRADUATE RESEARCH.** While the univ. depts. (see above) are mainly meant for postgrad. study and res., the three constituent recognized institutions (see above) also undertake postgrad. res. through their staff as well as through postgrad. students registered with the univ. and working in those institutions. The subjects of res. at the institutions are as follows : Bhandarkar Oriental Res. Inst.—anc. Sanskrit and Prakrit lit., Mahabharat epic and anc. Indian culture. Deccan Coll. Postgrad. and Res. Inst.—Sansk., compilation of Sansk. dictionary, sociol., anthropol., Arabic, Maratha hist., anc. Indian hist. and culture. Gokhale Inst. of Politics and Economics—econ., pol. and stats.

**FEES.** Fees charged up to first graduation are about Rs. 100 per term (extra lab. fees for sci. students). Postgrad. students : Rs. 125 per term for arts and Rs. 150 per term for sci. Besides these tuition fees, students have to pay about Rs. 25 to Rs. 30 p.a. for gymnasium, library and other facilities.

**ACADEMIC YEAR.** 2 terms : June to mid-Oct. ; Nov. to mid-March (med. & Ayurvedic med., mid-April).

The USUAL LANGUAGE OF INSTRUCTION is English, except in mod. Indian lang. classes, where the lang. concerned is used. Steps are being taken to replace English by Marathi.

**EXTRA-MURAL WORK.** The bd. of extra-mural studies was set up in 1950. Lectures on topics of general interest are frequently arranged under the bd.'s auspices, and profs. of the constituent and affiliated colls. and other experts are invited to



deliver lectures which are open to the general public.

**RESIDENCE.** The univ. maintains a hostel which has accomm. for 126 male postgrad. students. There is a sp. hostel for women students; accomm. 60. The affiliated colls. have their own hostels, accommodating a total of 3700 men and women students.

**UNIVERSITY PRESS.** The univ. maintains a small press.

**PUBLICATIONS.** *Handbook* (4 Pts. : Pts. I, III and IV annually; Pt. II quinquennially); *Annual Report*; N. C. Kelkar memorial lecture series, annual vol.; Dr. P. D. Gune lecture series, 1 vol. every 5 yrs.; Ashtekar Vedic lecture series, 1 vol. every 4 yrs.

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	20,690	—
Women . . .	3,671	—
Total . . .	24,361	—

Distribution by Faculties. *Agric.*, 526; *arts*, *sci.*, *soc. scis.*, 21,310; *Ayurveda*, 293; *engin.*, 1214; *law*, 458; *med.*, 560. Total: 24,361.

In addition, there were 7632 external students.

\*Included in the figures above are :—

Intermediate or Pre-University students, 13,874.

Postgraduate students, 1103.

New admissions, 9264.

Students from other countries, 215. (Countries from which largest numbers came : Ceylon, 89; Africa, 78).

**DEGREES AWARDED (1959).** DSc, 1; PhD (all facs.), 30; MA, 91; MA(ext.), 50; BA(gen. & spec.), 868; BA (hons.), 12; BA(gen. & spec.) (ext.), 281; BA (under 0.156 B), 30; MCom, 11; MCom(ext.), 2; MEd, 48; BCom, 258; BCom(ext.), 3; BT, 162; MSc, 93; MSc (maths.) (ext.), 3; BSc (hons.), 106; BSc(gen.), 496; LLM, 3; LLB, 103; MD, 3; MS, 2; MB BS, 80; MSc(Engin), 17; ME, 4; BE (civil), 190; BE(mech.), 49; BE(elect.), 23; BE(M&E), 2; BE(telecom.), 10; BE(met.), 12; MSc(Agri), 12; BSc(Agri), 75.

**DIPLOMAS AWARDED (1959).** TD, 69; music, 1; lower dipl. in French & German, 9; higher dipl. in French & German, 5; DPH, 7; DiplLib, 8.

**CERTIFICATES AWARDED (1959).** French & German, 59.

# UNIVERSITY OF RAJASTHAN\*

Founded 1947

*Postal Address* : Gandhinagar, Jaipur, Rajasthan, India

*Cables and Telegrams* : University, Jaipur

*Telephones* : Jaipur 4135, 2183

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)

CHANCELLOR—THE GOVERNOR OF RAJASTHAN (*ex officio*)

VICE-CHANCELLOR—M. S. MEHTA, MA LLB PhD

REGISTRAR—K. L. VARMA, MA

DEVELOPMENT OFFICER—G. S. JAIMAN, MA LLB

DEPUTY REGISTRAR—C. L. SINGHAL, BCom

ASSISTANT REGISTRAR—L. P. SHRIVASTAVA

HON. LIBRARIAN—D. L. GUPTA, MA BCom PhD *Lond.*

## UNIVERSITY TEACHING STAFF

[† = Part-Time]

### Economics and Public Administration

Mathur, M. V., MA BCom *Alld.*,

MPA *Harv.*

Prof.

Gupta, D. L., MA BCom PhD *Lond.*

Reader

Joshi, J. M., MA PhD

Lectr.

Bhalla, G. S., MA

Lectr.

Narula, D. D., MA

Lectr.

Viswanathiah, K. V., MA MPA *Syr.*

Lectr.

Sinha, V. M., MA PhD

Lectr.

Rangrajan, C., MA

Res. Fellow

### Geology

Rode, K. P., MSc PhD *Zür.*

Prof.

andhra, S., MSc

Chemical Analyst

ikla, R. T., MSc

Temp. Lectr.

Pandye, M. K., MSc

Lectr.

Choudhary, M. W., MSc PhD

X-Ray Analyst

### History

Sharma, M. L., MA DLitt

Prof.

Raghuvanshi, V. P. S., MA DPhil

Reader

Asopa, J. N., MA LLB

Lectr.

Choudhary, P. S., MA PhD

Lectr.

### Law

Sharma, G. S., MA LLM JSD *Yale*

Principal

Varma, R. N., MA LLM PhD

Reader

Saxena, I. C., MA LLM

Lectr.

Sinha, B. S., BA LLM

Lectr.

Singh, Narendra, MA LLM

Lectr.

Satgur Charan, BA LLM

Lectr.

Sharma, N. R., BA LLM

Temp. Lectr.

Dewan, P., BA LLM

Temp. Lectr.

Garg, C. K., BA LLB

† Lectr.

Mathur, C. M., MA LLB

† Lectr.

### Philosophy

Raju, P. T., MA PhD

Prof.

Date, V. H., MA PhD

Lectr.

Sharma, C. M., MA

Lectr.

## AFFILIATED INSTITUTIONS

[BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

AJMER, *Dayanand College*. BA, BCom, MA, MCom. Principal—D. Vable, MA LLB. 32 other Teachers.

AJMER, *Govt. Teachers' College*. BEd. Principal—R. K. Kaul, MA BSc BT. 14 other Teachers.

AJMER, *Govt. College*. BA, BSc, BCom, MA, MSc, MCom, LLB. Principal—Bhim Sen, MA. 70 other Teachers.

AJMER, *Savitri Girls' College*. BA. Principal—Miss Mukta Bhatji, MA. 9 other Teachers.

\* Member of the Association of Universities of the British Commonwealth

AJMER, *Sophia Girls' College*. BA. Principal—Sister Jovita, MA BT. 7 other Teachers.

ALWAR, *Raj Rishi College*. BA, BSc, BCom. Principal—R. L. Sawal, MA. 40 other Teachers.

BANSWARA, *Govt. College*. BA. Principal—M. L. Garg, MSc. 7 other Teachers.

BEAWAR, *S.D. Govt. College*. BA, BSc, BCom, MA, MCom. Principal—F. Singh, MA DLitt. 34 other Teachers.

BHARATPUR, *M.S.J. College*. BA, BSc, BCom. Principal—S. Swaroop, MA MSc. 38 other Teachers.

BHILWARA, *Maharana College*. BA, BCom. Principal—D. S. Kothari, MSc. 16 other Teachers.

BIKANER, *B.J.S.R. Jain College*. BCom. Principal—J. C. Ghosh, MA. 15 other Teachers.

BIKANER, *Dungar College*. BA, BSc, MA, MSc, LLB, BCom. Principal—P. C. Jain, MA. 37 other Teachers.

BIKANER, *Maharani Sudershan College for Women*. BA. Principal—Miss Rampyari Shastri, MA PhD. 12 other Teachers.

BIKANER, *Medical College*. MB BS Pt. I. Principal—S. C. Mehta, FRCS. 11 other Teachers.

BIKANER, *Rajasthan College of Veterinary Science & Animal Husbandry*. BVSc&AH. Principal—B. N. Handa. 25 other Teachers.

BIKANER, *Shri Jain College*. ICom, BCom. Principal—G. P. Sayal, MCom LLB. 7 other Teachers.

BIKANER, *Teachers' Training College*. BED. Principal—K. K. Chaturvedi. 12 other Teachers.

BUNDI, *Govt. College*. BA, BSc, Pre-Univ. Arts. Principal—M. L. Garg, MSc. 15 other Teachers.

CHIRAWA, *Chirawa College*. BA, BCom. Principal—A. B. Saxena, MA. 7 other Teachers.

CHURU, *Lohia College*. BA, BCom, BSc. Principal—R. S. Gupta, MA. 26 other Teachers.

DAUBA, *Govt. Intermediate College*. Pre-Univ. Arts & Comm. Principal—V. N. Sharma, MA BT. 8 other Teachers.

DIDWANA, *Bangur College*. BA, BCom. Principal—M. L. Sahal, MA. 10 other Teachers.

FALNA, *S.P.U. College*. BA, BCom. Principal—S. L. Sharma, MA. 10 other Teachers.

JAIPUR, *Agarwal College*. BCom. Offg. Principal—L. P. Vaish, MA. 10 other Teachers.

JAIPUR (Banasthali), *Banasthali Vidyapeeth*, BA. Principal—S. B. Banerjee, MA. 15 other Teachers.

JAIPUR, *Commerce College*. BCom, MCom. Principal—B. D. Bhargawa, MA BCom. 30 other Teachers.

JAIPUR, *Maharaja's College*. BA, BSc, MA. Principal—R. S. Kapur, BA. 79 other Teachers.

JAIPUR, *Maharani's College*. BA, MA, BSc. Principal—Mrs. Savitri Bharatiya, MA. 43 other Teachers.

JAIPUR, *Rajasthan College*. BA. Principal—S. P. Varma, MA DLitt. 22 other Teachers.

JAIPUR, *Sawai Mansingh Medical College*. ME BS, MD, MS, MSc(Med). Principal—R. M. Kasliwal, MD, MRCP. 76 other Teachers.

JAIPUR, *Seth Rameshwar Lal Saharia College*, Kaladera. Pre-Univ. Arts & Comm., BA, BCom. Principal—R. K. L. Bhatnagar, MA. 11 other Teachers.

JAIPUR, *S.S.G. Pareek College*. BA. Principal—G. L. Purohit, MA. 9 other Teachers.

JAIPUR, *S.S. Jain Subodh College*. Pre-Univ. Sci. Principal—B. C. Vaidya, MA BT. 11 other Teachers.

JHALAWAR, *Rajendra College*. BA. Principal—S. P. Tejpal, MA LLB. 6 other Teachers.

JHUNJHUNU, *Seth Motilal College*. Principal—N. L. Gupta, MA BT. 11 other Teachers.

JOBNER, *S.K.N. Govt. College of Agriculture* BSc(Ag). Principal—K. D. Baweja, MSc PhD. 14 other Teachers.

JODHPUR, *Jaswant College*. BSc, MSc, LLB. Principal—S. P. Kaushik, MSc PhD. 63 other Teachers.

JODHPUR, *M.B.M. Engineering College*. BE (civil, electr., mech., mining engin.) Principal—V. G. Garde, MSc(Eng). 66 other Teachers.

JODHPUR, *Rajmahal Girls' College*. BA. Principal—Miss Rama Subha Iyer Padmini, MA MSc Lond. 14 other Teachers.

JODHPUR, *Shri Maharaj Kumar College*. BA, BCom, MA, MCom. Principal—M. P. Mathur, MA PhD. 57 other Teachers.

KISHANGARH, *Govt. College*. BA, BCom. Principal—R. P. Bhargava, MA BCom. 18 other Teachers.

KOTAH, *Govt. College*. BA, BSc, MSc, BCom, MA, LLB. Offg. Principal—R. P. Singh, MA DLitt. 58 other Teachers.

KOTAH, *Maharani Girls' College*. BA. Principal—Swarnalata Agarwal, MA. 9 other Teachers.

MUKUNDGARH, *Sharda Sadan College*. BA, BCom. Principal—P. C. Sahal, MA BT. other Teachers.

NAWALGARH, *S.G.B. Podar College*. BCom, MCom, BA, BSc. Principal—C. B. Gupta, MA MCom. 23 other Teachers.

PILANI, *Birla Arts College*. BA, MA. Principal—Mrs. Deoki Upadhyaya, MA. 17 other Teachers.

PILANI, *Birla College of Science & Commerce*. BSc, BCom, MSc, MCom, BPharm, IPharm. Principal—S. M. Mitra, DSc Dacca. 56 other Teachers.

PILANI, *Birla Engineering College*. BE (Mech., Electr. & Telecommn.), BE (Civil), ME/MSc (Electronics). Principal—V. Lakshminarayanan, BE. 46 other Teachers.

SARDARSHAH, *Basic Teachers' Training College*. BEd(Basic Educn.), MEd. Principal—J. N. Kaul, MA PhD. 17 other Teachers.

SARDARSHAH, *Govt. College*. Pre-Univ. Arts & Comm. Principal—R. C. Mahendra, MA PhD. 8 other Teachers.

SIKAR, *S.K. College*. Principal—R. S. Tripathi, MA. 7 other Teachers.

SIROHI, *Govt. College*. BA. Principal—S. S. Dube, MSc. 11 other Teachers.

SRI GANGANAGAR, *Govt. College*. BA. Principal—P. Sinha, MSc. 21 other Teachers.

SRI GANGANAGAR, *Govt. Girls' College*. Pre-Univ. Principal—Mrs. O. Joshi, MA LT. 8 other Teachers.

SRI GANGANAGAR, *Seth G.L. Bihani S.D. College*. Pre-Univ., BCom. Principal—T. C. Sharma, MA BCom. 5 other Teachers.

SRI GANGANAGAR, *S.G.N. Khalsa College*. Pre-Univ., BSc. Principal—S. S. Sandhu, MA BT. 10 other Teachers.

TONK, *Govt. College*. Pre-Univ. Arts & Comm., BA, BCom. Principal—S. S. Singh, MA. 12 other Teachers.

UDAIPUR, *Govt. Girls' College*. BA, BSc. Principal—Mrs. Indira Shekhar, MA BT. 8 other Teachers.

UDAIPUR, *Maharana Bhupal College*. BA, BSc, BCom, MA, MSc, MCom, LL.B. Principal—V. V. John, BA Oxon. 68 other Teachers.

UDAIPUR, *Rajasthan College of Agriculture*. BSc(Ag). Principal—A. Rathore, MSc PhD. 32 other Teachers.

UDAIPUR, *Rajasthan Mahila Vidyalyaya*. BA. Offg. Principal—Panthiyal Bhagirathi Menon. 13 other Teachers.

UDAIPUR, *School of Social Work*. MSW. Principal—H. L. Upadhyay. 4 other Teachers.

UDAIPUR, *Shramjeevi College* (Night Degree College), Rajasthan Vidyapeeth. BA. Principal—K. L. Mod. 10 other Teachers.

UDAIPUR, *Vidya Bhawan G.R. Teachers' College*. BEd, MEd. Offg. Principal—P. L. Shrimali, MSc BT. 22 other Teachers.

## GENERAL INFORMATION

Although the idea of a univ. at Jaipur can be traced to the 1920s, it was not till Jan. 8, 1947, that the act for a federal univ. for Rajputana was promulgated. The univ.'s jurisdiction extends over Rajasthan, the ring-shaped region comprising the whole of Rajputana incl. Ajmer-Merwara. It is a teaching and affiliating univ.

The univ. now controls univ. educn. only. With the establ. of the bd. of secondary educn. in the state of Rajasthan with effect from July 1957, the control of high sch. and inter. educn. has been transferred to that bd.

CONSTITUTION. The main authorities are senate, syndicate, academic council, facs., bds. of studies and bd. of inspection, etc. Senate is the senior body. No statute of the univ. can be operative unless sanctioned by senate, and ordinances are subject to its approval. The syndicate is the executive body which controls day-to-day admin. Bds. of studies report to the facs., facs. to the academic council and academic council to the syndicate. All other bodies report direct to syndicate.

INCOME (1958-59). Rs. 1,823,701 (exam. and other fees, 27.3 per cent.; state govt. grant, 47.4 per cent.; grant from Univ. Grants Commission and govt. of India, 10 per cent.; tuition and other fees (univ. depts.), 6 per cent.; misc., 9.7 per cent.).

FACULTIES AND DEANS. Arts, B. Sen; comm., I. D. Bhargava; educn., P. L. Shrimali; engin., V. Lakshminarayanan; law, Dr. G. S. Sharma; med., pharm. & vet. sci., .....; sci., .....

UNIVERSITY PRECINCT. The univ. with its depts. and library, hitherto housed in rented premises, has now moved to newly constructed bldgs. of its own in Gandhinagar, Jaipur. The depts. of econ., hist., law and philos. are located there, and the dept. of geol. at Udaipur, c/o M.B. Coll.

The univ. has taken over postgrad. teaching in chem., phys. and maths. at Jaipur and bot. and zool. at Jodhpur.

LIBRARY. 43,688 vols.

ADMISSION. Min. requirements for entry to inter. pharm. and pre-univ. is high sch. or exam. declared equivalent. For requirements for entry to degree courses, see below.

FIRST DEGREES. BA, 2 yrs. after inter. or equivalent; BSc, 2 yrs. after ISc or equivalent; BSc(Ag), 2 yrs. after ISc(Ag) or equivalent; BCom, 2 yrs. after ICom or equivalent or 3 yrs. after pre-univ. or equivalent; BPharm, 3 yrs., with 90 days' practical trg., after IPHarm or ISc (with phys., chem., maths.) or equivalent; BE (civil, electr., mech., mining, telecommn.), 4 yrs., with 6 mos.' practical trg., after ISc, or 5 yrs. after pre-univ. or equivalent (with phys., chem., maths.); BVSc&AH, 4 yrs. after ISc (biol.); MB BS, 5½ yrs., incl. 6 mos.' internship, after ISc (with phys., chem., biol.). No honours degrees are awarded.

Note.—The univ. introduced 3-yr. degree and pre-univ. courses in the facs. of arts, comm. & sci. in 1958 and 1959 respectively.

**HIGHER DEGREES.** BEd, 1 yr. after 1st degree ; LLB, 2 yrs. after bachelor's degree. Courses of instructn. for MA, MOL, MSW, 2 yrs. after bachelor's degree ; MSc, MCom, ME and MSc (Tech-Electronics), MD, MS, LLM, 2 yrs. after corresp. bachelor's degree ; MED, 1 yr. after BEd ; MSc(Med), 2 yrs. after MB BS. Facilities for res. in univ. depts. of econ., geol., hist., philos. PhD, 2 yrs.' res. (and thesis) after postgrad. degree ; DLitt, DSc, 2 yrs. after PhD ; LLD, 2 yrs. after LLM. The DLitt, DSc and LLD may also be conferred as honorary degrees. All degrees are open to grads. of other univs.

**STUDY LEAVE,** which is available to univ. teachers who have been on the staff for 5 or more yrs., is granted (for 1 yr. or, exceptionally, 2 yrs.) to an individual once only. An undertaking to serve the univ. for at least 5 yrs. on return is required. If the teacher has a scholarship or other financial assistance he receives a monthly allowance of not more than half his salary ; if he has no scholp. or other financial assistance he receives his full salary plus a monthly allowance of not more than a quarter of his salary.

**FEES.** Tuition fees : MA or LLB, Rs. 120 p.a. ; LLM and res., Rs. 150 p.a. Registration fee for res., Rs. 50. Women are charged half fee. Candidates belonging to scheduled caste are exempted from payment of tuition fee.

**ACADEMIC YEAR.** July to April, 3 terms. Term dates (approx.) : July 7 to Sept. 30 ; Oct. 15 to Dec. 22 ; Jan. 2 to May 6.

**USUAL LANGUAGES OF INSTRUCTION.** Hindi and English.

**'OPEN' POSTGRADUATE AWARDS.** Univ. awards 6 scholps., value Rs. 150 p.m., tenable for 2 yrs., for res. in various subjects. Res. scholps., value Rs. 150 p.m., are also awarded in the univ.

teaching depts. : 2 each in geol., hist., philos., and 1 in econ.

**PRIVATE CANDIDATES** may appear at univ. exams. without attending lectures in a recog. instn. of the univ. Such candidates are women, teachers or librarians in recog. instns., or inspecting officers of the dept. of educn.

**EXTERNAL STUDENTS.** Provision exists for candidates 'in service' to undertake higher educn. Such candidates enrol to attend evg. classes, which certain degree colls. are authorized to run. They are thus intermediate in status between 'private' candidates and full-time scholars. This facility has enabled those who are gainfully employed and cannot for valid reasons join a coll. as regular students to appear at the univ. exams.

**EXTRA-MURAL WORK AND DELEGATIONS.** Extension lectures by members of the univ. are delivered at various centres, and are publd. both in Engl. and Hindi.

**NATIONAL CADET CORPS TRAINING.** Five bns., at Jaipur, Ajmer, Jodhpur, Udaipur and Bikaner ; 6 indep. cos., at Alwar, Bharatpur, Kota, Churu, Pilani and Sri Ganganagar ; 3 units : 1 air squadron at Jodhpur & Jaipur, 1 naval unit at Udaipur ; 4 tech. units : medical co. at Jaipur, artillery battery N.C.C. at Pilani, engin. platoon N.C.C. at Pilani & Jodhpur. The univ. contributes Rs. 9270 annually for amenities of N.C.C. cadets.

**PUBLICATIONS.** Text-books on Hindi, Engl., gen. sci. and soc. studies for the high sch. classes. Text-books on gen. sci. and soc. studies for inter. arts, inter. sci., inter. comm. and gen. knowledge ; *Handbook* (Pt. I, univ. authorities, as. 7 ; Pt. II, Statutes & Ordinances, Rs. 3), *Univ. Studies and Extension Lectures*, text-books and fac. syllabuses, *List of institutions*.

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	11,498	59
Women . . .	1,539	1
Total	13,037	60

**Distribution by Faculties.** Arts, 5058 ; comm., 2341 ; educn., 437 ; engin., 893 ; law, 953 ; med., pharmaceuticals, vet. sci. & animal husbandry, 994 ; sci., 2421. Total : 13,097.

*Included in the figures above are :—*

Postgraduate students, 2030.

New admissions, 3148.

Students from other countries, 6.

**DEGREES AWARDED (1958-59).** Arts : BA, 656 ; MA, 267 ; MOL, 1. Comm. : BCom, 363 ; MCom, 73. Educn. : BEd, 244 ; MEd, 6. Engin. : BE, 48 ; ME, 1. Law : LLB, 210 ; LLM, 4. Med., pharmaceuticals, vet. sci. & animal husbandry : MB BS, 45 ; MD, 6 ; MSc(Med), 2 ; MS, 5 ; BPharm, 6 ; BVSc&AH, 23. Sci. : BSc, 324 ; BSc(Ag), 25 ; MSc, 112. PhD (all facs.) : 10. DSc, 1.

# UNIVERSITY OF ROORKEE\*

Founded in 1847 as Thomason College ; inaugurated  
as a University in 1949

Postal Address : Roorkee, Uttar Pradesh, India

Telegrams : University, Roorkee

Telephone : Roorkee 5

CHANCELLOR—RAJYAPAL SRI V. V. GIRI

VICE-CHANCELLOR—K. N. KATHPALIA

PRO-VICE-CHANCELLOR—.....

REGISTRAR—S. S. SHARMA, MA

DEAN OF STUDENTS—S. R. SINGH, BScEngin Brist.

## TEACHING STAFF

### Applied Science

Prasad, C., MSc *Alld.*, DPhil *Oxon.*  
(Appl. Maths.) Reader  
Agarwal, B. R., DIC, MSc PhD *Lond.*  
(Chem.) Reader  
Mittal, K., MSc *Alld.* (Maths.) Reader  
Mithal, R. S., DIC, MSc PhD (Geol.) Reader  
Agarwal, B. K., MSc PhD (Phys.) Lectr.  
Bal Krishna, MSc (Maths.) Lectr.  
Vijay Kumar, MSc *Agra* (Maths.) Lectr.  
Gupta, S. N., MSc (Maths.) Lectr.  
Goel, R. G., MSc (Maths.) Lectr.  
Srivastava, L. S., BSc MTech *Kharagpur* Lectr.  
Ram, K., MSc PhD Lectr.  
Garg, J. L., MSc *Alld.* (Maths.) Lectr.  
Singh, S. N., MSc *Agra* Lectr.  
Gupta, R. R., MA *Alld.* Sr. Instr.  
Narang, P. N., MA Sr. Instr.  
Pande, R. P., BSc *Ban.* Instr.  
Jain, D. P. S. Instr.

### Architecture

Datta, K. L. Reader  
Rattan, K., BArch MTech *Kharagpur* Reader  
Subharwal, S. P., BArch Reader  
Chaudhuri, I. S. Lectr.  
Sahu, R. K. Lectr.  
Bassemboo, B. M. Lectr.  
Vijay Kumar, BArch *Delhi* Lectr.

### Engineering, Civil

Chaturvedi, R. S., MIE(India) Prof.  
Yoshikawar, S. Visiting Prof.  
Singh, S. R., BScEngin *Brist.* Assoc. Prof.  
Krishna, J., PhD *Lond.*, BSc CE Assoc. Prof.  
Jain, O. P., PhD *Lond.*, BSc CE Reader  
Singh, B., CE (on leave) Reader  
Narain, B., BSc CE Reader

Narain, J., BSc *Luck.*, MSc(CE) *Purdue*,  
BE (on leave) Reader  
Shahani, P. B., BE Reader  
Chitale, H. D., BE(Civil) Reader  
Kaushik, C. P., DIC, BE Reader  
Vaswani, N. K., BSc(Eng) *Bom.*  
(on leave) Reader  
Singh, V., BSc CE Reader  
Harkauli, A. N., MS(CE) MIngEngr, BSc  
CE Reader  
Kashyap, D. V., BSc CE Reader  
Arya, A. S., BE(Civil) ME(Struct) Reader  
Mathur, S. K., MSc *Tor.*, BE Reader  
Oswal, H. L., BSc(Min) *Ban.*,  
MSc(Eng) *Lond.* Reader  
Misra, H. C., BSc *Alld.*, BE(Civil) Lectr.  
Mirajgaokar, A. G., BE(Civil) ME  
(on leave) Lectr.  
Gupta, S. P., BE(Civil) (on leave) Lectr.  
Tilak, R., BSc *Agra*, BE(Civil) Lectr.  
Agarwal, K. B., BE(Civil) DiplEng Lectr.  
Rao, P. V., BE(Civil) *And.* Lectr.  
Kshirsagar, S. R., BE(Civil) *Bom.* Lectr.  
Chandra Sekaran, A. R., BSc(Eng) Lectr.  
Varma, R. S., BE(Civil) Lectr.  
Manglik, S. K., BE(Civil) Lectr.  
Kanchi, M. B., BE(Civil) PostgradDipl Lectr.  
Khanna, S. K., BE(Civil) Lectr.  
Sharma, K. P., BSc BE(Civil) Lectr.  
Jain, S. C., BE(Civil) Lectr.  
Chandra, S., BE(Civil) Lectr.  
Ajmani, J. L., BE(Civil) Lectr.  
Bhati, M. S., BE(Civil) Lectr.  
Malhotra, R. C., BE(Civil) Lectr.  
Swarup, B. R., BSc(Eng) Lectr.  
Garde, R. J., BSc BE MS PhD Lectr.  
Singh, K. P., BSc BE(Civil) Lectr.  
Agarwal, S. R., BE(Civil) Lectr.

\* Member of the Association of Universities of the British Commonwealth

Khanna, A. K.  
Rathor, V. P.

Sr. Instr.  
Sr. Instr.

Grover, G. K., BSc(Eng)  
Suresh, C., BE *Agra*, BSc(Eng)  
Tyagi, R. S., MS ME BE(Mech)

Lectr.  
Lectr.  
Lectr.

### Engineering, Electrical

Ghosh, C. S., MSc *Calc.*, SM *M.I.T.*,  
FNI

Jethi, J. L., BSc(Eng) *Ban.* Prof.  
Biswas, N. N., BSc (on leave) Reader  
Roy, L. M., MSc Reader  
Das, P. H., MSc Reader  
Jain, G. C. Reader  
Rao, T. S. M., PhD *Lond.*, MSc(Electr) Reader  
Indiresan, P. V., BSc (on leave) Lectr.  
Kohli, D. R., BE(Electr) (on leave) Lectr.  
Kulshreshtha, O. P., BSc BE(Electr) (on leave) Lectr.  
Raina, Y. B. L., BA *Lond.* Lectr.  
Goyal, R. C., MSc BE(Electr) Lectr.  
Lal, M., BSc (on leave) Lectr.  
Agarwala, S. B., BE(Electr) Lectr.  
Mathur, N. C., BA Lectr.  
Rampal, V. V., BSc Lectr.  
Ostawal, S. L., BE(Electr) Lectr.  
Kripal, S. R., BE(Electr) Lectr.  
Agrawal, Y. L., BE(Electr) Lectr.  
Arora, R. K., BSc Lectr.  
Gupta, H. S., BE(Electr) Lectr.  
Sarkar, B., BE(Tech) Lectr.

### Engineering, Mechanical

Kamlani, M. V., BSc(Eng) *Ban.* Prof.  
Shankar Lal, BSc(Eng) *Ban.*, DIISc, DIC, MSc(Eng) *Lond.*, PhD Assoc. Prof.  
Prasad, J., BSc(Eng) *Ban.* Reader  
Kapoor, P. N., DiplMaschIng *E.T.H. Zürich*, BA Reader  
Saxena, M. N., BSc(Metall) *Ban.* Reader  
Gupta, C. P., MSc *Agra*, BE(Mech) Reader  
Prakash, R., BSc *Agra*, BE(Mech) Reader  
Srivastava, J. P., BSc BE(Mech) (on leave) Reader  
Mankani, L. B., BSc(Engg) (on leave) Lectr.  
Garg, D. P., BSc BE(Mech) (on leave) Lectr.  
Prasad, J., BSc BE(Mech) (on leave) Lectr.  
Singh, D., BE(Mech) BE(Civil) Lectr.  
Suri, R. K., BE(Mech) PostgradDipl Lectr.  
Gaivdher, J. L., BE(Mech) Lectr.  
Verma, H. K., BE(Mech) Lectr.  
Gupta, C. M., BE(Mech) Lectr.  
Srivastava, B. C., BE(Mech) Lectr.  
Bahadur, S., BE(Mech) Lectr.  
Arora, N., BSc BE Lectr.  
Saluja, G. S., BSc(Mech) Lectr.  
DiplRef&AirCond Lectr.  
Luthra, BSc(Eng) MTech Lectr.  
Jain, R. K., BE(Mech) Lectr.

### REFRESHER COURSES

Rave, D., CE Dir.  
Varma, G. K. R., DIC, BSc(Eng) *Ban.* Reader  
Tondon, R. N., BSc(Eng) *Ban.* Reader  
Dixit, S. C., CE Reader

### WATER RESOURCES DEVELOPMENT TRAINING CENTRE

Kathpalia, K. N. Prof., Hd. of Dept.  
Chaturvedi, U. L., CE, MIE(India) (Civil) Prof.  
Talwani, B. S. Assoc. Prof.  
Sally, H. L., BA, CE Dir., Tech. Publicns.  
Ajwani, H. J. Reader  
Srivastava, J. N., CE Reader  
Walsch, O. Advisor

### DIPLOMA POLYTECHNIC

Sinha, D. N. Principal

#### Engineering, Civil

Patwardhan, S. V., BE(Civil) *Bom.* Hd.  
Chandra, S., BE DiplStructEngin Lectr.  
Naithani, S. V., BE(Civil) Lectr.  
Joshi, P. D., BSc BE(Civil) Lectr.  
Nandan, R. Sr. Instr.  
Garg, S. S. Sr. Instr.  
Chand, Jain Sarup Instr.  
Gupta, O. C. Instr.  
Visharad, P. D. Instr.  
Gupta, N. K. Instr.  
Chand, Jain Suresh Instr.  
Jindal, R. K. Instr.  
Lavania, B. V. R. Instr.  
Lal, S. Instr.

#### Engineering, Electrical

Roy, S. N., MSc Hd.  
Rao, K. K. V. S., BE(Electr) Lectr.  
Gupta, K. G., BSc(Eng) *Ban.* Lectr.  
Vidyarthi, R. A., DEE *Bda.* Sr. Instr.  
Diwan, H. L., DME Sr. Instr.  
Jain, M. G. Instr.  
Upadhyaya, S. N. Instr.

#### Engineering, Mechanical

Mathur, A. P., BSc(Eng) *Ban.* Hd.  
Sachan, M. N., BE(Mech) Lectr.  
Khuslani, K. A., BSc(Engg) *Agra* Lectr.  
Vasudev, K. L. Sr. Instr.  
Singhal, R. Sr. Instr.  
Soneja, B. K. Sr. Instr.  
Kaushik, J. P. Instr.

## ADMINISTRATIVE AND OTHER STAFF

Ast. Registrar : V. N. Kak, MA *Luck.* ; Asst.  
Registrar (exams.) : Dr. S. D. Arora. Supt. of  
Workshops : . . . . . Supt., Univ. Estate : K. C.  
Mittal. O.C., N.C.C. : Major N. Kumar. Univ.

Med. Supt. : I. S. Singh, MB BS BSc *Panji*.  
Accts. Officer : R. M. Kapoor, MSc. Personal  
Asst. to Vice-Chancellor : S. S. Srivastava, BCom  
LLB.

## GENERAL INFORMATION

Establd. in 1847, the Thomason Coll. of Civil Engineering, the oldest engin. coll. in India, became the Univ. of Roorkee by the University Act of 1948 (U.P. Act No. IX of 1948) as amended by Act No. XII of 1949. The univ. was constituted to provide for the teaching of all branches of engin. at Roorkee in a unitary, teaching and residential univ.

**CONSTITUTION.** The authorities of the univ. are the senate and the syndicate. There are also a finance cttee. and a bd. of studies to advise on financial and academic matters respectively.

**INCOME (1958-59).** Rs. 4,725,424 (grant-in-aid by govt. of India, 57 per cent. ; by state govt., 35 per cent. ; from other sources, 8 per cent.). Total income (1958-59), Rs. 7,258,448.

**UNIVERSITY PRECINCT.** The univ. area comprises about 400 acres along the Ganga canal at Roorkee, amidst the most fertile land in Uttar Pradesh.

**LIBRARY.** Central libr. : 51,112 books and periodicals on engin. and scientific subjs. ; rare books of bibliog. value. Reading and reference rooms.

**OBSERVATORY.** There is a second-class meteorol. observatory under the charge of the univ.

**MUSEUM** of geol., concrete technol., civil engin.

**LABORATORIES.** Phys., chem., soil mechanics, concrete technol., mechanics, hydraulics, photogrammetry, heat engines, refrigeration, struct. engin., survey, internal combustion engines, testing of materials, hydraulic machines, advanced electr. machines, electr. communication and electr. high voltage. Fully equipped workshops for instructn.

**ADMISSION.** *To BE and BArch.* Admission to 1st yr. of BE and BArch courses is by annual competitive exam. in May (circulars & applicn. forms available in Jan.). Age limits, 17 to 21 yrs. ; 20 per cent. of total places are reserved for scheduled caste and scheduled tribes candidates. Qualifs. for admission : pass in inter. exam. with maths., phys. and chem. or geol., or (for archit. course only) inter. exam. in arts with maths., provided high sch. exam. has been passed with phys. and chem., of the U.P. bd. of high sch. & inter. educn. or of any other bd. or univ. in the Indian union recog. by the govt. ; Camb. higher sch. cert. with maths., phys. and chem. ; pre-engin. exam. of Delhi Polytechnic ; 1st yr. exam. of 3-yr. degree course of all statutory univs. with maths., phys. and chem. ; BSc exam. of Delhi Univ. with Engl., maths. and phys. or chem., provided that chem. or phys. was taken in the higher sec. exam. of the Delhi bd. ; BA (hons.) in maths. of Delhi Univ., provided sci. subjs. were taken in the higher sec. exam. ; inter. sci. cert. (with maths., phys. and chem.) of the East Panjab Univ. in lieu of soc. service ; overseer cert. or dipl. in civil, electr. or mech. engin. of the Univ. of Roorkee or any other

dipl. recognized by the univ. ; draughtsman cert. or dipl. exam. of Univ. of Roorkee ; 2nd yr. exam. of Natnl. Defence Academy ; G.C.E. exam. of Univ. of London with maths., phys. and chem. at advanced level.

*To ME* (only 10 students admitted to each course) : degree in engin. of Roorkee or other approved univs., or dipl. of the former Thomason Coll. of Civil Engin., Roorkee, or natnl. dipl. of AICTE obtained from Delhi Polytechnic between 1945 and 1952 (both dates inclusive) ; degree in mining engin. for postgrad. course in photogrammetric engin.

*To dipl. courses.* Admission to 1st yr. is by competitive exam. in May (circulars & applicn. forms available in Jan.). Age limits, 16 to 21 yrs. ; 20 per cent. of total places are reserved for scheduled caste and scheduled tribes candidates. Qualifs. for admission : high sch. exam. of U.P. bd. of educn. or an exam. recog. by govt. as equivalent.

**FIRST DEGREES.** 3 yrs.—BE (civil, electr., mech., telecommn.) ; 4½ yrs.—BArch.

**HIGHER DEGREES.** 9 mos. plus 6 mos.' practical trg.—ME in (i) dam design, irrigation engin. and hydraulics ; (ii) struct. engin. incl. concrete technol. ; (iii) pub. health engin. ; (iv) soil mechanics and foundation engin. ; (v) highway engin. ; (vi) photogrammetric engin. ; (vii) electr. machine design ; (viii) appl. thermodynamics (refrigeration & air conditioning) ; (ix) appl. thermodynamics (power engin., steam and I.C.E.). 12 mos.—ME in water resources devel. (a course financed by the govt. of India to enable qualified serving engineers of the countries of Asia and Africa to study the latest devels. in engin. techniques in river valley projects ; 40 places available). Candidates who have passed the ME exam. but not yet qualified in the dissertation are eligible for award of a postgrad. dipl. in engin.

**HONORARY DEGREES.** DSc, DEng.

**DIPLOMAS.** 3 yrs.—Overseer's (civil, electr., mech.) ; 2 yrs.—draughtsman (civil, electr. & mech.). The univ. also awards a postgrad. dipl. in engin. (see 'Higher Degrees', above).

**OTHER COURSES.** Refresher courses : courses of 3 mos. in civil, electr. and mech. engin. to enable serving engineers to keep up to date.

**RESEARCH.** Facilities for res. are available in civil, electr. and mech. engin.

**TUITION FEES.** Postgrad. course, Rs. 240 ; engin. degree course, Rs. 216 ; dipl. in engin. courses, Rs. 54 per session of 9 mos. ; draughtsman dipl. courses, nil.

**SCHOLARSHIPS.** For BE and BArch courses : 33 entrance and 70 course scholps. each of Rs. 50 p.m. for 9 mos., plus 1 scholp. in each yr. in any branch of engin. for scheduled caste candidates, available to students of the U.P. For ME



courses : scholps. of Rs. 150 p.m. for 12 mos. awarded to 50 per cent. of students admitted to each course. For overseer and draughtsman courses : 98 scholps. of Rs. 25 p.m. for 9 mos., plus 2 scholps. in each yr. awarded to students of the scheduled caste. The govt. of India awards 45 scholps. of Rs. 150, 180 and 200 p.m. to engin., overseer and draughtsman students coming from foreign countries.

**ACADEMIC YEAR.** Sept. to May, 2 terms. Term dates (approx.) : Sept. 1 to Dec. 20 ; Jan. 5 to May 31.

The **MEDIUM OF INSTRUCTION** is English.

**PRACTICAL TRAINING.** Engin. students are provided with facilities to undergo 6 weeks' practical trg. during the long vacation, in govt. depts. and indust. enterprises. They are also given facilities and encouragement to do manual work by joining the community projects of the univ.

**RESIDENCE, ETC.** Residence in the univ. hostels is compulsory. Engin. students run a common mess (membership compulsory). A number of messes are also run by overseer and draughtsman students.

**CLUBS.** Separate clubs for the engin. and overseer, supervisor and draughtsman class students exist. Membership is compulsory. Soc. functions are arranged in the clubs to establ. informal contacts between the staff, guests and students.

**THOMASONIAN SOCIETY.** Organized by students under guidance of a sr. member of staff. Membership is compulsory.

**OLD THOMASONIANS' ASSOCIATION.** Annual meeting held at time of convocation, which provides an opportunity for former students to establ. contacts with the present staff and students. Lectures are given and papers on academic subjects read at the meeting.

**NATIONAL CADET CORPS.** Consists of two engin. platoons. Trg. is compulsory for 1st- and 2nd-yr. engin. students. Overseer and draughtsman classes have to do phys. trg. under a military instr.

**PUBLICATIONS.** *Calendar* (Rs. 6) ; *Annual Report* ; *Syllabus* (Rs. 1.4) ; *Prospectus* (6 as.) ; *Alumni Journal* (incorporating the *Lion* and the *Thomasonian Bulletin*).

## THE YEAR 1959

**HONORARY DEGREES.** *DSc*—Rajendra Prasad, pres. of India. *DEng*—L. P. Misra, general manager, Hindustan Motors Ltd., Calcutta ; M. S. Thacker, dir., C.S.I.R., New Delhi ; A. N. Khosla, vice-chancellor, Roor.

180 ; *BE*(Mech), 171 ; *BE*(Telecom), 87 ; *BArch*, 67. *Diploma students* : dipl. in engin., 459 (civil, 231 ; electr., 116 ; mech., 112) ; draughtsman, 79 (civil, 39 ; electr. & mech., 40). Postgraduate students, 118. Total : 1536.

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1471	57
Women . . .	8	—
Total . . .	1479	57

Distribution by Courses. *Degree students* : *ME*(W.R.D.), 20 ; *BE*(Civil), 355 ; *BE*(Electr),

*Included in the figures above are :—*

Pre-University or Intermediate students, nil.

Postgraduate students, 118.

New admissions, 591.

Students from other countries, 60. (Country from which largest number came : Nepal, 38).

**DEGREES AWARDED (1959).** *ME*, 23 ; *BE*, 103.

**DIPLOMAS AWARDED (1959).** Postgrad., 45 ; engin., 180 ; draughtsman, 23.

# SARDAR VALLABHBHAI VIDYAPEETH \*

Founded 1955

*Postal Address* : Vallabh Vidyanagar (W. Rly.), Dist. Kaira,  
Gujarat State, India

*Cables and Telegrams* : Vidyapeeth

*Telephone* : 163 (Anand)

CHANCELLOR—THE GOVERNOR OF GUJARAT (*ex officio*)

VICE-CHANCELLOR—B. J. PATEL, BA LLB *Bom.*

REGISTRAR—.....

## TEACHING STAFF

(University Postgraduate Departments)

### Botany

Raghavan, T. S., MA PhD *Lond.*  
Narayanswami, S., MSc PhD  
Inamdas, J. A., MSc

### Hindi

Prof. Pant, M. B., MA  
Reader Khandelwal, R. L., MA PhD  
Lectr. Trivedi, S. R., MA *Ban.*

Prof.  
Reader  
Lectr.  
Lectr.

### Chemistry

Patel, R. D., MSc PhD *Leeds*  
Mankad, B. N., BSc PhD *Bom.*  
Patel, R. P., MSc  
Trivedi, Miss B. A., MSc

### History

Prof. Tiwari, A. R. G., MA PhD *Poona*  
Reader .....  
Lectr.

Reader  
Lectr.

### Mathematics

Prof. Patel, D. M., BSc *Lond.*  
Reader Buch, V. B., MSc  
Lectr. Vaidya, A. M., MA  
Lectr.

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.

### Commerce

Patel, M. H., MCom

### Economics

Amin, R. K., MA MSc *Lond.*  
Vyas, V. M., MA PhD  
Gulati, K., MA *Panj.(I.)*, MSc *Lond.*

Prof.  
Reader  
Lectr.  
Lectr.  
Lectr.

### Philosophy

Reader  
Lectr.

### Physics

Joshi, M. S., MSc PhD  
Patel, M. M., MSc

Prof.  
Reader  
Lectr.

### English

Dave, R. A., MA  
Pancholi, R. M., MA

Reader  
Lectr.  
Lectr.

### Political Science

Kshirsagar, S. K., MA PhD

Reader  
Lectr.

### Gujarati

Patel, J. K., MA BT  
Patel, J. M., MA

Reader  
Lectr.

### Sanskrit

Kapadia, B. H., MA PhD *Bom.*  
Shukla, Mrs. C. P., MA

Reader  
Lectr.

\* Member of the Association of Universities of the British Commonwealth

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar : K. A. Amin, BCom *Bom.*  
Asst. Librarian : C. R. Patel, LLB *Bom.*, DipLib.

Dir. of Phys. Educn. & Recreation : V. B. Captan, MA *Bda.*, MPed *Mass.*

## CONSTITUENT AND AFFILIATED COLLEGES

[BSc(Agri), BCom, etc., after the name of a coll. means that courses are provided there for BSc(Agri), BCom, etc.]

**ANAND, Bansilal Amritlal College of Agriculture** (tel. : 29 Anand). BSc(Agri), MSc(Agri). Principal—R. M. Patel, MSc PhD *Wis.* 47 Teachers.

**VALLABH VIDYANAGAR, Bhikhabhai Jivabhai Vanijya Mahavidyalaya** (Commerce Coll.) (tel. : 31). BCom, MCom. Principal—M. M. Shah, MCom MSc(Econ) *Lond.* 22 Teachers.

**VALLABH VIDYANAGAR, Birla Vishvakarma Mahavidyalaya** (Engin. Coll.) (tel. : 31, extrn. Anand). Principal—R. H. Chokhavatia, ME, MIE(India). Hds. of Depts. : MECH. ENGIN.—S. Anantkrishnan, BA BE ; ELECTR. ENGIN.—K. V. Kardile, MSc. 77 Teachers.

**VALLABH VIDYANAGAR, Nalini & Arvind Arts College.** BA. Principal—T. G. Deokule, MA. Hds. of Depts. : ENGL.—S. M. Wadia, MA, GUJARATI—B. K. Chokshi, MA PhD. 29 Teachers.

**VALLABH VIDYANAGAR, Secondary Teachers' Training College.** BEd. Principal—I. J. Patel, MA BT. 10 Teachers.

**VALLABH VIDYANAGAR, Vithalbhai Patel Mahavidyalaya** (Sci. Coll.) (tel. : 31, extrn. Anand). BSc. Principal—A. R. Patel, MSc PhD *Lond.* Hds. of Depts. : CHEM.—L. D. Dave, MSc PhD *Lond.* ; BIOL.—J. G. Chohan, MSc. 89 Teachers.

## GENERAL INFORMATION

Establd. by the Bombay Act no. XI. of 1955 as a teaching and affiliating univ. in a rural setting, the purpose of Sardar Vallabhbhai Vidyapeeth is to help to accelerate the process of regeneration of villages by the application of modern arts, scis. and technol. to rural requirements.

**CONSTITUTION.** The principal univ. authorities are senate, syndicate, facs., bds. of studies and bd. of postgrad. studies and res. Senate is the supreme governing body and syndicate the chief executive body.

**INCOME** (1958-59). Rs. 468,823 (principal sources : govt. grant, 51.6 per cent. ; fees, 48.4 per cent.).

**FACULTIES AND DEANS.** *Agric.*, Dr. R. M. Patel ; *arts*, S. M. Wadia ; *comm.*, . . . . . ; *sci.*, Dr. R. D. Patel ; *technol.* (incl. engin.), R. H. Chokhavatia.

**UNIVERSITY LIBRARY.** Approx. 10,300 vols.

**ADMISSION.** For enrolment as students of the univ. for degree courses, applicants must have passed the S.S.C. exam. conducted by a recog. exam. bd. and the pre-univ. exam. of the univ. after keeping attendance at course of instructn. as laid down by the univ. (or any other exam. recog. as equivalent). Students passing the S.S.C. exam. are admitted to the pre-univ. course.

**FIRST DEGREES.** 3 yrs. after pre-univ.—BA, BSc, BCom, BSc(Agri) ; 4 yrs. after pre-univ.—BE. First degrees are taken entirely by regular attendance.

**HIGHER DEGREES.** MA, MSc, MCom, MSc (Agri), ME, 2 yrs. ; PhD, 2 yrs. after master's degree. Degrees open to grads. of other univs. on reciprocal basis.

**RESEARCH.** The univ. has started postgrad. depts. (see p. 579) for guiding res.

**STUDY LEAVE.** There is provision for study leave for permanent and whole-time teachers of the univ., other than profs., with not less than 3 yrs.' continuous service. This facility is given to teachers in accordance with univ. requirements.

**FEES.** Tuition fee per term for postgrad. students : fac. of agric., Rs. 30 ; facs. of arts, comm., sci. (maths. only), Rs. 60 ; other sci. subs., Rs. 100 ; fac. of engin., Rs. 200.

The constituent colls. may in addn. charge fees not exceeding Rs. 10 in the aggregate per term for gymkhana, library and other service.

**ACADEMIC YEAR.** Two terms : June to Oct., Nov. to March.

**USUAL LANGUAGE OF INSTRUCTION.** Hindi or Gujarati for preparatory, with option to use Engl. ; Engl. beyond preparatory stage with option to use either Hindi or Gujarati.

**STUDENT RESIDENCES.** The univ. has its own hostel for 144 students.

**PUBLICATIONS :** *Univ. Handbook* (pt. II, containing the acts, statutes and ordinances ; and pt. III, containing syllabuses for various courses of study).

## THE YEAR 1959

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	3905	—
Women . . .	213	—
Total . . .	4118	—

Distribution by Faculties. *Agric.*, 584 ; *arts*,

624 ; *comm.*, 837 ; *engin.*, 569 ; *sci.*, 1355. Post-grad. students, 149. Total : 4118.

*Included in the figures above are :—*

Pre-University students, 2049.

Postgraduate students, 149.

Students from other countries, nil.

DEGREES AWARDED (at first convocation, held in 1959). *Agric.* : BSc(Agri), 39. *Arts* : BA, 29 ; MA, 10. *Comm.* : BCom, 20. *Engin.* : BE, 95. *Sci.* : BSc, 31. *Total number of first degrees awarded*, 214.

# UNIVERSITY OF SAUGAR\*

Founded 1946

Postal Address : Sagar, Madhya Pradesh, India

Cables and Telegrams : University, Sagar

Telephone : Sagar, 5

CHANCELLOR—K. N. KATJU, MA LLD *Alld.*, DLitt

PRO-CHANCELLOR—S. D. SHARMA, MA LLM PhD *Camb.*, DPA *Lond.*, FBA

VICE-CHANCELLOR—D. P. MISHRA, BA LLB DLitt

TREASURER—G. P. PANDE, BA LLB *Alld.*

REGISTRAR—Professor I. CHANDRA, MA *Panj.*

DEPUTY REGISTRAR—P. BAJPAI, MA *Alld.*, LLB

DEANS—ARTS—Professor M. P. SHARMA, MA DLitt *Alld.* ; EDUCATION—Principal A. MISRA, MA BSc LLB BT DLitt ; ENGINEERING—V. M. DOKRAS, MS PhD *Col.* ; LAW—B. L. SETH, BSc LLB *Alld.* ; SCIENCE—Professor D. S. SHRIVASTAVA, MSc PhD *Belf.*

PROCTOR—M. P. SHARMA, MA DLitt *Alld.*

WARDEN—M. L. MISRA, MA DSc *Alld.*

## TEACHING STAFF

### Ancient Indian History, Culture and Archaeology

Bajpai, K. D., MA <i>Ban.</i>	Asst. Prof.
Dikshit, M. G., PhD <i>Bom.</i>	Asst. Prof.
Pathak, V. S., PhD <i>Ban.</i>	Asst. Prof.
Pandey, S., MA <i>Alld.</i>	Asst. Prof.

Singh, R., MSc PhD <i>Ban.</i>	Asst. Prof.
Lal, S. S., MSc <i>Alld.</i>	Asst. Prof.
Rai, R. C., MSc DPhil <i>Alld.</i>	Asst. Prof.
Awasthi, P. N., MSc PhD	Asst. Prof.
Kher, Y. G., MSc PhD	Asst. Prof.

### Anthropology

Dube, S. C., MA PhD <i>Nag.</i>	Prof.
Mawalwala, J. D., MA <i>Delhi</i>	Asst. Prof.
Srivastava, R. P., MA <i>Luck.</i> , PhD	Asst. Prof.
Chouhan, B. R., MA LLB	Asst. Prof.

### Commerce

Sahay, G., MA PhD <i>Lond.</i>	Reader
Roy, R. P., MCom <i>Alld.</i>	Asst. Prof.
Pandey, V. P., MCom LLB PhD	Asst. Prof.
Saxena, R. B., MCom <i>Agra</i>	Asst. Prof.
Seth, P. K., MCom	Asst. Prof.

### Botany

Pandey, S. K., MSc <i>Panj.</i> , DSc <i>Luck.</i>	Prof.
Saksena, S. B., MSc PhD	Reader
Bhargava, H. R., MSc <i>Agra</i>	Asst. Prof.
Mall, L. P., MSc <i>Luck.</i> , PhD	Asst. Prof.
Rao, Y. S., MSc <i>Ban.</i> , PhD	Asst. Prof.
Tiagay, Y. D., MSc <i>Agra</i> , PhD	Asst. Prof.
Bajpai, S. K., MSc DPhil <i>Alld.</i>	Asst. Prof.

### Criminology and Forensic Science

Bhutt, Justice G. P., BSc LLB	Prof.
Jatar, D. P., MSc PhD <i>Ban.</i>	Asst. Prof.
Shrivastava, S. S., MA PhD <i>Luck.</i>	Asst. Prof.

### Economics

Misra, J. N., MSc <i>Lond.</i>	Reader
Raman, A., MA LLB	Asst. Prof.
Shete, M. K., MA <i>Nag.</i>	Asst. Prof.
Nakhare, M. G., MA <i>Nag.</i>	Asst. Prof.
Mishra, B. D., MCom <i>Alld.</i>	Asst. Prof.
Agarwal, J. L., PhD	Asst. Prof.

### Chemistry

Bhattacharya, A. K., DSc <i>Alld.</i> , FRIC	Prof.
Nigam, S. S., MSc <i>Alld.</i> , DIC, PhD <i>Lond.</i>	Reader
Banerji, S. N., MSc DPhil <i>Alld.</i>	Reader
Mahajani, A. V., MSc <i>Alld.</i>	Asst. Prof.
Shrivastava, H. N., MSc <i>Nag.</i>	Asst. Prof.
Manhas, M. S., MSc DPhil <i>Alld.</i>	Asst. Prof.

### English

Swaminathan, S. R., BA <i>Mad.</i> , DPhil <i>Oxon.</i>	Prof.
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\* Member of the Association of Universities of the British Commonwealth

Mukerji, A., MA DPhil <i>Alld.</i>	Asst. Prof.
Mallikarjunan, S., BA <i>Madr.</i>	Asst. Prof.
Chatterji, A. N., MA <i>Calc.</i>	Asst. Prof.
Shrivastava, H. B., MA LLB	Asst. Prof.
Misra, J. S., MA <i>Luck.</i>	Asst. Prof.
Chamu, S. V., MA <i>Mys.</i>	Asst. Prof.
Verma, Mrs. F. E., MA	Asst. Prof.

**French**, see German and French

### Geography

Muzaffar Ali, MA MSc PhD <i>Lond.</i> , FNI	Prof.
Misra, V. C., MA PhD	Asst. Prof.
Panchapagesan, N., BSc <i>Madr.</i>	Asst. Prof.
Agarwal, P. C., MA <i>Alld.</i>	Asst. Prof.
Iyer, N. P., BSc <i>Madr.</i>	Asst. Prof.
Verma, Pramila, MA DPhil <i>Alld.</i>	Asst. Prof.

### Geology

Chiplonkar, G. W., DSc <i>Ban.</i>	Reader
Durge, M. V., MSc	Asst. Prof.
Murty, T. V. V. G. R. K., MSc <i>And.</i>	Asst. Prof.
Das, B., MSc <i>Ban.</i>	Asst. Prof.
Singh, K. K., MSc PhD <i>Kharagpur</i>	Asst. Prof.

### Geology, Applied

West, W. D., MA ScD <i>Camb.</i> , FNI	Prof.
Das, K. N., MSc <i>And.</i>	Asst. Prof.
Prabhakara Rao, Y. S., MSc <i>And.</i>	Asst. Prof.
Shrivastava, J. N., BSc	Asst. Prof.
Babu, S. K., MSc <i>Mys.</i>	Asst. Prof.

### German and French

.....	Asst. Prof.
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### Hindi

Bajpeyi, N. D., MA <i>Ban.</i>	Prof.
Pande, R. N., MA <i>Alld.</i>	Asst. Prof.
Singh, R. L., MA PhD	Asst. Prof.
Bhatnagar, R. R., MA DPhil <i>Alld.</i>	Asst. Prof.
Jha, G. N., MA <i>Nag.</i>	Asst. Prof.
Prem Shankar, MA PhD	Asst. Prof.
Shukla, B. D., MA PhD	Asst. Prof.
Misra, S. K., MA PhD	Asst. Prof.

### History

Gupta, H. L., MA DPhil <i>Alld.</i>	Reader
Mehrotra, S. R., MA <i>Alld.</i>	Asst. Prof.
Tripathi, G. S., MA <i>Ban.</i>	Asst. Prof.
Amar, V. B., MA Munshi Fazil <i>Panj.</i>	Asst. Prof.

### Indo-Iranian Studies

Saksena, B. R., MA DLitt <i>Alld.</i>	Prof.
Schmidt, H. P., MA PhD <i>Hamburg</i>	Asst. Prof.

### Law

Bhutt, Justice G. P., BSc LLB	Prof.
Shrivastava, G. S., MA LLB	Hon. Asst. Prof.
Saraf, B. L., BA LLB	Hon. Asst. Prof.
Kher, L. G., MSc LLB	Hon. Asst. Prof.
Sharma, S. L., BA LLB	Hon. Asst. Prof.

### Marathi

Adoni, D. L., MA <i>Nag.</i>	Asst. Prof.
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### Mathematics

Misra, M. L., MA DSc <i>Alld.</i>	Prof.
Singh, B. D., MA <i>Ban.</i>	Asst. Prof.
Gupta, D. P., MSc <i>Alld.</i>	Asst. Prof.
Misra, R. K., MSc <i>Nag.</i>	Asst. Prof.
Varshney, O. P., MA <i>Alld.</i>	Asst. Prof.
Sharma, P. L., MSc	Asst. Prof.
Shrivastava, S. K., MSc	Asst. Prof.

### Persian

Amar, V. B., Munshi Fazil <i>Panj.</i>	Hon. Asst. Prof.
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### Pharmacy

Schroff, M. L., AB <i>Corn.</i> , MS <i>M.I.T.</i>	Prof.
Sharma, S. N., MPharm PhD <i>Manc.</i>	Reader
Varma, K. C., MSc PhD <i>Wash.</i>	Asst. Prof.
Singh, H. K., MPharm PhD <i>Ban.</i>	Asst. Prof.
Nikore, R. L., MPharm <i>Ban.</i> , PhD <i>Berl.</i>	Asst. Prof.
Khare, R. L., MSc	Asst. Prof.
Chauhan, C. S., BSc	Asst. Prof.

### Philology and Linguistics

Saksena, B. R., MA DLitt <i>Alld.</i>	Prof.
Mehrotra, P. C., MA <i>Agra</i>	Asst. Prof.

### Philosophy and Psychology

Saksena, S. K., MA PhD <i>Lond.</i>	Reader
Awasthi, C. S., MA <i>Ban.</i> , LLB	Asst. Prof.
Bhattacharya, S., MA <i>Calc.</i>	Asst. Prof.
Daya, MA PhD <i>Delhi</i>	Asst. Prof.
Prakash, J., MA DPhil <i>Alld.</i>	Asst. Prof.
Joshi, M. C., MA <i>Ban.</i>	Asst. Prof.

### Physics

Bhawalkar, D. R., MSc PhD <i>Lond.</i>	Prof.
Shrivastava, M. P., DIC, MSc <i>Lond.</i>	Reader
Ranade, J. D., MSc PhD <i>Lond.</i>	Asst. Prof.
Pandeya, D. C., MSc <i>Luck.</i> , PhD <i>Lond.</i>	Asst. Prof.
Shrivastava, R. K., MSc <i>Nag.</i>	Asst. Prof.
Goel, S. P., MSc <i>Luck.</i>	Asst. Prof.
Zope, J. K., MSc PhD	Asst. Prof.
Deo, I., MSc <i>Alld.</i>	Asst. Prof.
Agarwal, J. P., MSc <i>Alld.</i>	Asst. Prof.
Sivaraman, S., MSc	Asst. Prof.
Shrivastava, A. P., MSc <i>Luck.</i>	Asst. Prof.

### Political Science

Sharma, M. P., MA DLitt <i>Alld.</i>	Prof.
Singh, S. C., MA PhD DLitt <i>Luck.</i>	Reader
Shrivastava, R. P., MA LLB PhD	Asst. Prof.
Dube, R. C., MA	Asst. Prof.
Chauhan, V., MA	Asst. Prof.
Purohit, B. R., MA	Asst. Prof.

### Sanskrit

Upadhyaya, R., MA DPhil <i>Alld.</i>	Reader
Bhawalkar, Mrs. Vanamala, MA <i>Nag.</i>	Asst. Prof.

Bhattacharya, V. N., MA PhD *Ban.* Asst. Prof.  
 Pandey, Y., MA *Alld.* Asst. Prof.

**Zoology**

Srivastava, D. S., MSc PhD *Belf.* Prof.  
 Misra, S. D., MSc PhD *Luck. & Sask.*

**Urdu**

Amar, V. B., Munshi Fazil *Panj.*  
 Hon. Asst. Prof.

Saini, R. S., MSc *Agra*, PhD Asst. Prof.  
 Shrivastava, R. K., MSc Asst. Prof.  
 Bhargava, H. N., MSc *Alld.*, PhD Asst. Prof.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar, Accounts : B. P. Misra, BA.  
 Asst. Registrar, Exams. : R. Nema, MA BT.  
 Librarian : B. L. Pathak, MA MOL *Panj.* Chair-

man of Delegacy : A. K. Bhattacharya, DSc *Alld.*  
 Statistical Officer : N. S. Verma, MA PhD.

**AFFILIATED COLLEGES**

*Note.*—All these colleges are in Madhya Pradesh

[Preparatory, BA, etc., after the name of a coll. means that courses are provided there for Preparatory, BA, etc.]

BALAGHAT, *Govt. Degree College.* Preparatory, BA, BSc. Principal—V. B. Shukla, MSc PhD. 18 Teachers.

BETUL, *Jayavanti-Haksar College.* Preparatory, BA. Principal—G. S. Banhatti, MA. 8 Teachers.

BILASPUR, *C.M. Dubey Commerce & Arts College.* Preparatory, BA, BCom. Principal—D. P. Shukla, MA LLM. 18 Teachers.

BILASPUR, *S.B.R. College.* Preparatory, BA, MA(Pol), BSc, LLB. Principal—A. L. Pande, MA BT. 42 Teachers.

BURHANPUR, *Seva Sadan Arts College.* Preparatory, BA, BCom. Principal—G. B. Chouksey, MA LLB. 7 Teachers.

CHHATARPUR, *Maharaja College.* Preparatory, BA, MA, BSc, MSc, BCom, BT. Principal—H. R. Mishra, MA BT LLB DLitt. 48 Teachers.

CHHINDWARA, *Jagannath Mahavidyalaya.* Preparatory, BA, BCom. Principal—R. S. Chaurasia, MA. 7 Teachers.

CHHINDWARA, *Satpura Mahavidyalaya.* BA, BCom. Principal—A. P. Singh, MA DPhil LLB. 8 Teachers.

CHIRIMIRI, *Lahiri Degree College of Arts, Science & Commerce.* Preparatory, BA, BSc. Principal—J. Lahiri, DipEd *Lond.*, CertEd *Camb.*, MA BT. 14 Teachers.

DAMOH, *Arts College.* Preparatory, BA. Principal—P. M. Paranjape, MA. 7 Teachers.

DATIA, *Govt. Degree College.* BA, BSc. Principal—N. P. Nafde, MA. 17 Teachers.

DHANA, *L.P. Sanskrit Degree College.* IA, BA Classics. Principal—Pandit C. B. Pande, MA Acharya. 6 Teachers.

DURG, *Govt. Arts & Science College.* Preparatory, BA, BSc. Principal—S. L. Katare, MA DLitt. 16 Teachers.

HOSHANGABAD, *Narmada Mahavidyalaya.* Preparatory, BA, LLB. Principal—R. L. Sharma, MA LLB. 21 Teachers.

ITARSI, *Mahatma Gandhi Memorial College.* Preparatory Arts & Comm. Principal—S. B. Trivedi, MA MOL. 5 Teachers.

JAGDALPUR, *Govt. Degree College.* BA, BSc. Principal—S. N. Kaveeshwar, MSc PhD. 8 Teachers.

JANJIR, *Janjgir College of Arts & Commerce.* Preparatory Arts & Comm. Principal—Satya Sahai, MA. 8 Teachers.

KHANDWA, *Govt. Training College.* DipT, BT, MEd. Principal—K. M. Bakshi, MA *Mich.*, MSc *Nag.* 22 Teachers.

KHANDWA, *Shree Nilkantheshwar Arts & Commerce College.* Preparatory, BA, BCom. Principal—R. L. Nirula, DIC, PhD. 22 Teachers.

MANDLA, *Rani Durgavati Mahavidyalaya.* Preparatory, BA, BCom. Principal—S. G. Somalwar, MA. 7 Teachers.

NARSIMHAPUR, *Narsimhapur Degree College.* BA, BCom. Principal—G. N. Dube. 9 Teachers.

PANNA, *Chhatrasal Degree College.* BA, BSc. Principal—C. Malviya, MA. 16 Teachers.

RAIGARH, *Kirorimal Govt. Arts & Science Degree College.* Preparatory, BA, BSc. Principal—S. P. Tiwari, MA PhD LLB. 9 Teachers.

RAIGARH, *Kirorimal Govt. Polytechnic.* Dip Engg (Civil, Electr., Mech.). Principal—R. G. Buldeo, BSc BE. 8 Teachers.

RAIPUR, *Chhattisgarh College.* Preparatory, BA, MA(Pol), BCom. Principal—J. Joganandam, MA LLB. 17 Teachers.

RAIPUR, *College of Science.* Preparatory, BSc, MSc. Principal—Karam Singh, MSc PhD. 77 Teachers.

RAIPUR, *Govt. Ayurvedic College*. GAMS (graduate of Ayurvedic Med. & Surg.). Principal—Vaidraj L. P. Jyotishi, MA. 8 Teachers.

RAIPUR, *Govt. College of Engineering & Technology*. BE (Metall., Mining, Civil, Electr., Mech.). Principal—P. C. Wadhvani, BSc (Mech & Engg), MIE (India). 17 Teachers.

RAIPUR, *Govt. D.S.V. Sanskrit Mahavidyalaya*. Madhyama (Intermediate Arts in classics), Shastri (BA in classics). Principal—S. P. Chaturvedi, MA. 13 Teachers.

RAIPUR, *Govt. Girls' Degree College*. Preparatory, BA, BSc. Principal—Mrs. N. Sharan, MA. 14 Teachers.

RAIPUR, *Govt. Training College*. DipT, BT, MEd. Principal—Mrs. F. Chaudhari, DipAdm Wash., MA BT LLB MEd. 14 Teachers.

RAIPUR, *Law College*. LLB. Principal—B. B. L. Tiwari, BSc LLB. 7 Teachers.

RAIPUR, *New Arts & Commerce College*. Preparatory, BA, BCom. Principal—M. V. Ramchandran, MA. 20 Teachers.

RAJNANDGAON, *Digvijai Mahavidyalaya*. Pre-

paratory, BA, BCom, LLB. Principal—K. L. Shukla, MA LLB. 14 Teachers.

REWA, *Govt. Agriculture College*. BSc(Ag), MSc(Ag). Principal—R. C. Sharma, MA. 12 Teachers.

REWA, *Govt. Training College*. BT, MEd. Principal—J. S. Misra, MEd Tor., MA MSc. 7 Teachers.

REWA, *Thakur Ranmat Singh College*. Preparatory, BA, MA, BSc, BSc(Agri), BT, MSc. Principal—A. P. Mathur, DSc. 83 Teachers.

SATNA, *Govt. Degree College*. BA, BSc. Principal—O. B. Shukla, MA. 19 Teachers.

SEONI, *Shri Shikharchand Jain Science & Arts College*. Preparatory, BA. Principal—G. S. Pandeya, MA LLB. 12 Teachers.

SHAHIDOL, *Govt. Degree College*. Preparatory, BA, BSc. Principal—R. M. Chaturvedi, MA LLB. 15 Teachers.

TIKAMGARH, *Govt. Degree College*. BA, BSc. Principal—M. P. Agarwal, MSc BT. 16 Teachers.

## GENERAL INFORMATION

The univ. was founded in 1946 by Sir Hari Singh Gour, who gave Rs. 20 lacs and appealed to both central and provincial govts. to make suitable donations. The govt. of Madhya Pradesh donated Rs. 10 lacs towards the univ. endowment fund and made a further grant of Rs. 15 lacs towards bldgs. and equipment. They are also making a grant of Rs. 6 lacs a yr. towards the maintenance of the univ.

The founder of the univ. intended that it should be particularly concerned with polytechnics. Accordingly, a scientific and technol. fac. has grown up laying sp. emphasis on sci., phys., technol., engin. and agric., along with a study of arts and soc. scis.

The univ. is a teaching and residential as well as an affiliating univ. Most of the teaching staff live in the univ. bldgs. and thus participate in the wider life of the univ.

CONSTITUTION. The univ. authorities are the court, executive council, academic council, cttee. of reference, and facs.

INCOME (1958-59) (estimate). Total: Rs. 8,023,850 (state govt. grant, Rs. 2,541,000; state share to U.G.C., Rs. 65,011; central govt. grant, Rs. 1,668,747; grant for scholps., Rs. 77,472; endowments, Rs. 156,226; fees, Rs. 1,956,073; misc., Rs. 1,559,321).

UNIVERSITY PRECINCT. The govt. of Madhya Pradesh have transferred to the univ. 2050 acres of land, free of cost, at a site selected by the univ. for the founding of the univ. town. The permanent bldgs. of the univ. are being constructed on the new site, which is on a plateau commanding

extensive and beautiful views and more than 2000 ft. above sea level. A wide range of bldgs., incl. those for the library, geol. and pharm. depts., and students' health centre, have been completed on the new site.

LIBRARY. 58,012 vols., 5520 bound periodicals, 480 pamphlets.

LABORATORIES. Bot., chem., geol., pharmacy, phys., zool.

MUSEUMS. Anthropol., bot., geol., hist., zool. BOTANICAL GARDENS.

OBSERVATORY. Meteorol. observatory controlled by phys. dept.

ADMISSION. Students who have passed the higher sec. sch. cert. exam. of Madhya Pradesh, or an equivalent exam., are eligible for admission to the 1st yr. of the degree course at the univ. Those who have passed the univ. inter. cert. exam. or any exam. recog. by the univ. as equivalent are eligible for admission to the 3rd-yr. class, i.e. 1st yr. of bachelor degree course. Grads. of this univ., as well as of other recog. univs., are eligible for admission to the postgrad. degree courses.

NON-MEMBERS OF THE UNIV. are not admitted to classes.

FIRST DEGREES. 3 yrs. after Preparatory—BA, BSc, BPharm, BSc (appl. biochem. scis.), BCom, Indo-Iranian Studies, BSc(Agri); 4 yrs.—BE in mining & metall., civil, electr., mech., telecommn. engin. All degrees (incl. higher degrees) of the univ. may be taken externally by teachers in recog.



schools and colls. within the territorial jurisdiction of the univ., and by women candidates.

A course in general knowledge is compulsory for all undergrad. students.

**HIGHER DEGREES.** 1 yr.—BT; 2 yrs.—LLB, MA, MSc, MPharm, MCom; 20 mos. or more—PhD.

**DIPLOMAS.** Teaching (DipT), 2 yrs.; engin.; 3 yrs.; oriental learning, 4 yrs.

**POSTGRADUATE RESEARCH** is carried out in all depts. in facs. of sci., arts and educn.

**FEES** per session. Preparatory: arts, Rs. 117; comm., Rs. 126; sci., Rs. 135. Pre-professional: Rs. 135. Degree courses: BA, BSc, Rs. 135; BCom, Rs. 144; BSc(Agri), Rs. 145; LLB 'previous', Rs. 108, final, Rs. 126; BPharm, MA, MSc, MPharm, Rs. 162; BE, Rs. 165; MTech, Rs. 162; MCom, Rs. 171.

**ACADEMIC YEAR.** July to April, 2 terms: July to Oct., Nov. to April.

**LANGUAGE OF INSTRUCTION.** Hindi in inter. classes (except engin., law and pharmacy) and in degree classes (except for scientific and technical subjs. where both Hindi and Engl. are used).

**STUDENTS' RESIDENCES.** 5 halls of residence (4

for men, 1 for women). Total number of students in residence at the univ. is 436 (406 men, 30 women). Hostel fees: single room, Rs. 5 p.m.; dble. room, Rs. 4 p.m.

**STAFF RESIDENCES.** About 40 staff members live in the residences on the univ. campus.

**UNIVERSITY MILITARY FORMATION.** Regular national cadet corps indep. co. maintained, through the state govt., by ministry of defence of govt. of India.

**STUDENT HEALTH SERVICE.** The bd. of physical welfare supervises the arrangements connected with phys. welfare of students. There is a resident med. officer and a small hosp. unit.

**STUDENTS' UNIONS.** Univ. of Saugar union, delegacy students' union and hostel students' union.

**PUBLICATIONS.** *Calendar* (publd. every 3rd yr., Rs. 5; current edn., 1958-59); *Prospectuses* and *Syllabuses* (annual; various prices); *Annual Report*; *Univ. Journal* (twice a yr.); magazines of students' unions (twice a yr.).

**UNIVERSITY PRESS.** The univ. maintains a small univ. press.

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	12,338	59
Women . . .	1,015	11
Total	13,353	70

Univ. colls.: 1659 (1530 m., 129 w.); affiliated colls.: 11,764 (10,867 m., 897 w.). Total: 13,423.

Distribution by Faculties, etc. *Agric.*, 155;

*arts & comm.*, 6709; *Ayurvedic med. & surg.*, 152; *educn.*, 595; *engin.*, 361; *pharm.*, 67; *polytechnic*, 264; *sci.*, 5120.

**DEGREES AWARDED (1958-59).** BA, 625; BA(Classics), 10; BCom, 172; BSc, 152; BSc(Agri), 58; BT, 365; LLB, 73; BPharm, 3; MA, 223; MSc, 121; MCom, 17; MPharm, 3; MEd, 17.

**DIPLOMAS AWARDED (1958-59).** DipT, 124; Hindi, 3; Sanskrit, 15.

# SHREEMATI NATHIBAI DAMODAR THACKERSEY WOMEN'S UNIVERSITY

Founded 1916

*Postal Address* : 1 Nathibai Thackersey Road, Queen's Road, Fort, Bombay 1,  
Maharashtra State, India

*Cables and Telegrams* : Uniwomen

*Telephone* : Bombay 241879

CHANCELLOR—H.E. THE GOVERNOR OF BOMBAY (*ex officio*)

VICE-CHANCELLOR—Mrs. PREMLILA V. THACKERSEY, DLitt

DEAN—Mrs. SHARDA DIVAN, MA

REGISTRAR—.....

DEPUTY REGISTRAR—I. N. KAJI

## CONSTITUENT COLLEGES

BOMBAY, *S.N.D.T. College for Women*, 1 Nathibai Thackersey Rd., Queen's Rd., Fort, Bombay 1 (tel. : 241127). Founded 1931. Principal—Prof. D. S. Phatak, MA. 70 other Teachers.

POONA, *S.N.D.T. College for Women*, Karve Rd., Erandwana (tel. : 6689). Founded 1916. Principal—Mrs. Sharayu G. Bal, MA BT PhD. 24 other Teachers.

## AFFILIATED COLLEGES

AHMEDABAD, *S.I.U. Gujarat Mahila Pathshala*, Sardar Patel Marg, opposite Khamasa Gate (tel. : 52012). Founded 1920. Principal—Mrs. Indumati Mehta. 22 other Teachers.

BARODA, *Maharani Chimnabai Mahi a Pathshala*, near Sursagar. Founded 1923. Principal—Miss Sudha R. Desai, MA PhD. 16 other Teachers.

BHAVNAGAR, *Shri Mahila College*, Waghwadi,

Shah Sadan. Founded 1942. Principal—K. C. Shah, MA. 19 other Teachers.

BOMBAY, *Shri Matunga Gujarati Seva Mandal Women's College*, 398 Telang Rd., Bombay 19 (tel. : 63046). Founded 1958. Principal—M. J. Pathallji, MA.

SURAT, *Z.F. Wadia Women's College*, Athwa Lines. Founded 1948. Principal—Mrs. Subhadra R. Marfatia, MA. 15 other Teachers.

## GENERAL INFORMATION

The S.N.D.T. Women's Univ. was founded by Dr. D. K. Karve in 1916 on the model of the Women's Univ. of Tokyo. Dr. Karve based his plan for the new univ. on the recognition of two principles : the use of the vernacular as the most natural and effective medium of instructn., and the differentiation in courses of study to suit the different roles played by men and women in the social life of the country. In 1920 the univ. was placed on a firm financial foundation by a munificent gift of Rs. 15 lacs from Sir Vithaldas Thackersey. The distinctive features of this univ. are that it is mainly concerned with the educn. of women (courses of study incl. such subjects as dom. sci., drawing, painting and nursing) and that all teaching work is carried on in Gujarati and Marathi.

The univ. was granted statutory recognition by the state govt. in 1951. It has 7 colls., 2 constituent and 5 affiliated.

**LOCATION AND BUILDINGS.** The univ. was originally located in Poona, but since 1936 the main office has been in Bombay. The univ. office and the coll. in Bombay are housed in a spacious bldg., constructed at a cost of about Rs. 10 lacs, which was inaugurated by Dr. S. Radhakrishnan, vice-pres. of the republic of India, in 1952. The other bldg. of the univ. is under constrcn.; its estimated cost is about Rs. 20 lacs.

**CONSTITUTION.** The supreme governing body of the univ. is the senate. The executive govt. is vested in the syndicate.

**INCOME.** The univ. receives a recurrent grant of Rs. 153,896 from the govt. of Bombay and has also recd. non-recurrent grant of Rs. 200,000 from the govt. of Bombay. Exam. fees, Rs. 258,131; annual endowment (from Thackersey trust), Rs. 45,000.

**ADMISSION.** The qualif. for admission is the S.S.C. exam. of the S.S.C. Bd., Poona, or any other exam. recognized as equivalent for the purpose.

**FIRST DEGREES.** BA—4 yrs. Home sci. (incl. elementary biol. & hyg.), home making, home management & cookery, food & nutrition, physiol., psychol., are compulsory. Ethics, philos., music, drawing and painting are optional subjects.

BSc Nursing (hons.)—4 yrs. Theoretical instructn. at the univ., practical trg. and demonstrations at the Bombay Hosp. Students also visit the various special instns. in the city for trg.

The establ. of a degree and coll. in home sci. is contemplated.

**HIGHER DEGREES.** Postgrad. courses are offered

leading to the degrees of MA (2 yrs.), BEd (1 yr.) and MEd (2 yrs. after BEd).

**EXTERNAL STUDENTS.** All univ. exams. may be taken externally except those for BEd and BSc Nursing (hons.).

**FEES.** Coll. fees, Rs. 100 per term.

**ACADEMIC YEAR.** Two terms: June 15 to Oct. 14, Nov. 15 to March 14.

**RESIDENCE.** No arrangements at present. Plans for a hostel are under consideration.

**STUDENT HEALTH.** No specific health service, but immediate first aid provided for in case of emergency.

**STUDENT ASSOCIATIONS.** A students' welfare bd. looks after student interests generally. There are also literary and sports bds. and unions.

**PUBLICATIONS.** Prospectuses of courses (publd. from time to time): *Civics*, *Dom. sci.* (both in Gujarati & Marathi); *Econ.* (in Marathi); *General Educn.* (both in Gujarati & Marathi); *Sociol.* (in Gujarati).

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Women only	6330	

All students are in Faculty of Arts.

*Included in the figures above are :—*

Intermediate or Pre-University students, nil

External students, 3545.

Postgraduate students, 256.

Students from other countries, nil.

**DEGREES AWARDED (1958-59).** BA, 758; BSc Nursing (hons.), 8; MA, 45; BEd, 153; MEd, 15.

# SRI VENKATESWARA UNIVERSITY\*

Founded 1954

*Postal Address* : Tirupati, Andhra Pradesh, South India

*Cables and Telegrams* : University, Tirupati

*Telephone* : Tirupati 52

CHANCELLOR—THE GOVERNOR OF ANDHRA PRADESH (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION OF ANDHRA PRADESH (*ex officio*)

VICE-CHANCELLOR—S. GOVINDARAJULU, MA LLB *Camb.*, BL

REGISTRAR—M. RAMANUJARAO NAIDU, MA *Madr.*

DEPUTY REGISTRAR—B. SUBBA RAU, BA *Madr.*

## TEACHING STAFF

[§ = Hd. of Univ. Dept.]

### UNIVERSITY COLLEGE OF ARTS AND SCIENCES

Principal—Prof. T. A. Purushottam, MA PhD *Lond.*

<b>Arabic, Persian and Urdu</b>		<b>Mathematics</b>	
Ahmed, R. U., MA PhD	§Lectr.	Benerjee, D. P., DSc <i>Dacca</i>	§Prof.
<b>Botany</b>		<b>Philosophy</b>	
Rao, I. M., DSc <i>Madr.</i> , Dip in German	§Reader	Purushottam, T. A., MA PhD <i>Lond.</i>	
<b>Chemistry</b>		Principal of Univ. Coll., §Prof.	
Neelakantam, K., DIC, MA PhD	§Prof.	<b>Physics</b>	
<b>Economics</b>		Ramachandra Rao, S., MA PhD DSc, FIP, FNI	
Warriar, E. K., MA MSc <i>Lond.</i>	§Prof.		
<b>English</b>		<b>Psychology</b>	
Rama Sarma, M. V., MA PhD <i>Wales</i>	§Reader	Parthasarathy, S., MA Dip in Anthropol	§Reader
<b>Geology</b>		<b>Sanskrit</b>	
Chakrapani Naidu, M. G., MSc PhD	§Prof.	Gopalaswamy Iyengar, T. K., MA	
<b>Hindi</b>			
Singh, V. P., MA PhD	§Reader	<b>Telugu</b>	
<b>History</b>		<b>Zoology</b>	
Rama Rao, M., MA PhD	§Prof.		

### UNIVERSITY COLLEGE OF ENGINEERING

Sp. Officer and Prof. of Mech. Engin.—G. Ramakrishnan, BE MSc *Mich.*

\* Member of the Association of Universities of the British Commonwealth

## ADMINISTRATIVE AND OTHER STAFF

Univ. Engineer : T. Srinivasa Mudali, BA BE. Univ. Dir. of Phys. Educn. : L. K. Govindarajulu, BA BL. Med. Officer : N. V. Ramakrishnan, MB BS. Warden, Univ. Hostels : T. A. Purushottam, MA PhD Lond. ; Dep. Warden : B. V. Ramanujam, MA PhD. Asst. Librarian : M. S. Patnaik, MA Diplib.

## AFFILIATED COLLEGES

[Pre-Univ., BA, etc., after the name of a coll. means that courses are provided there for Pre-Univ., BA, etc.]

### Arts and Science Colleges

ANANTAPUR, *Govt. Arts College*. Pre-Univ., BA, BSc. Principal—C. Suryanarayana Murthy, MSc DipEdn. 90 Teachers. BSc. Principal—M. Habibur Rahman, MA BT. 47 Teachers.

CUDDAPAH, *Govt. Arts College*. Pre-Univ., BA, BSc. Principal—S. Raghavachari, MA BT. 56 Teachers. MADANAPALLE, *Besant Theosophical College*. Pre-Univ., BA, BSc. Principal—B. Sitharamiah, MA *Madr.* 28 Teachers.

KAVALI, *Kavali College*. Pre-Univ., BA. Principal—M. Pattabhirama Reddy, MA. 32 Teachers. NELLORE, *V.R. College*. Pre-Univ., BA, BSc. Principal—R. Subba Reddy, MA BED. 77 Teachers.

KURNOOL, *K.V. Reddy Govt. College for Women*. Pre-Univ., BA. Principal—Miss K. Nathaniel, MA LT. 26 Teachers. TIRUPATI, *S.P. College for Women*. Pre-Univ., BA. Principal—Mrs. K. Rajeswari Murthy, MA *Madr.* 26 Teachers.

KURNOOL, *Osmania College*. Pre-Univ., BA, TIRUPATI, *S.V. College for Men*. Pre-Univ., Pre-Professional in Agric., Vet. Sci., BA, BCom Principal—S. Nagaiah, MA. 57 Teachers.

### Training Colleges

KURNOOL, *Govt. Training College*. BED. Principal—L. Bullayya, MA BED. 17 Teachers. NELLORE, *Govt. Training College*. BED. Principal—S. Gopalakrishnamoorthy, DSc *Madr.* 13 Teachers.

### Engineering College

ANANTAPUR, *College of Engineering*. Pre-professional in Engin., BE. Principal—..... 43 Teachers.

### Medical College

KURNOOL, *Kurnool Medical College*. Pre-professional in Med., MB BS. Principal—K. Ramesh Pai, MB MS, FRCS. 61 Teachers.

### Veterinary College

TIRUPATI, *Andhra Veterinary College*. BVSc. Principal—P. S. Rajulu, BVSc MS. 33 Teachers.

## ORIENTAL COLLEGES

KURNOOL, *Islamia Arabic College*. Afzal-ul-Ulama, Adib-i-Fazil, Tabib-i-Kamil. Principal—Moulvi Alhaj Syed Zahurullah Hussaini Saheb. 9 Teachers. RAYADRUG, *Jamia Mohammadiya Arabic College*. Munshi-i-Fazil. Vice-Principal—M. S. Abbas. 4 Teachers.

NELLORE, *Veda and Sanskrit College*. Vidwan. Principal—U. Subbaramaiah. 7 Teachers. TIRUPATI, *Sri Venkateswara Oriental College*. Siromani, Vidwan. Principal—S. Nagaiah, MA. 19 Teachers.

## GENERAL INFORMATION

The univ. was establd. in Sept. 1954 as a teaching and residential univ. It is now also affiliating, its jurisdiction extending over the districts of Anantapur, Cuddapah, Kurnool, Chittoor and Nellore in the state of Andhra Pradesh.

The univ. derives its name from the deity Lord Venkateswara, nr. whose shrine it is located.

In the Univ. College of Arts & Scis., Tirupati, courses are provided in univ. depts. of Arabic, Persian & Urdu, bot., chem., econ., Engl., geol., Hindi, hist., maths., philos., phys., psychol., Sanskrit, Telugu and zool., leading to pass, postgrad., post-hons. and res. degrees.

The Univ. Coll. of Engin., Tirupati, was started in 1959 and provides instructn. for BE degree.

**CONSTITUTION.** The chancellor is pres. of the senate, the supreme governing body of the univ. Executive powers are vested in the syndicate, of which the vice-chancellor is chairman. Other authorities of the univ. are the academic council, the facs. and the bds. of studies.

**INCOME** (1958-59). Rs. 7,713,451 (govt. grants, Rs. 2,800,000; fees, Rs. 473,298; other sources, Rs. 4,440,153).

**FACULTIES AND DEANS.** *Agric.*, .....; *arts*, Prof. T. A. Purushottam (philos.); *comm.*, .....; *engin.*, .....; *med.*, Dr. C. Venkatramaiah; *oriental learning*, .....; *sci.*, Prof. S. Ramachandra Rao (phys.); *teaching*, S. Gopalakrishnamoorthy; *vet. sci.*, P. S. Rajulu.

**LIBRARY.** Univ. library, 22,227 vols.

**LABORATORIES.** The sci. depts. are gradually being moved into new lab. bldgs.

**TEACHING HOSPITAL.** Kurnool General II, Kurnool, for grad. courses in med.

**ADMISSION.** Candidates passing the matric. exam. of the univ. or secondary sch. leaving cert. exam. conducted by the state govt. or any exam. recog. as equivalent thereto are eligible for admission to the pre-univ. course of study. Successful candidates in the pre-univ. exam. are admitted to pre-professional courses, leading to professional degrees, and also to the 3-yr. courses for BA, BSc, BCom.

**FIRST DEGREES.** BA, BSc, BCom—3 yrs. after pre-univ.; BE—5 yrs. after pre-univ.; BVSc—4 yrs. after pre-professional; MB BS—5 yrs. after pre-professional. Pre-professional is taken 1 yr. after pre-univ.

**HIGHER DEGREES.** BEd, 1 yr. after 1st degree; MA (by efflux of time without any further exam.)

after BA (hons.) and BSc (hons.); MA, MSc, 2 yrs. after BA, BSc; MA (hons.), MSc (post-hons. degrees), 1 yr. after BA (hons.), BSc (hons.); PhD, 2 yrs. after MA, MSc; DLitt, DSc, 2 yrs. after PhD.

**ORIENTAL TITLES.** Afzal-ul-Ulama, Adib-i-Fazil, Tabib-i-Kamil, Munshi-i-Fazil, Siromani and Vidwan—4 yrs. after prescribed entrance test or matric.

**RESEARCH.** PhD degree (common to arts & sci.) may be taken in Arabic, Persian & Urdu, bot., chem., econ., Engl., geol., Hindi, hist., maths., philos., phys., psychol., Sanskrit, Telugu and zool. DLitt (on the arts side) and DSc (on the sci. side) may be taken by submitting theses 2 yrs. after having qualified for PhD. The univ. maintains a res. inst. for sp. study and res. in indology.

**FEES.** Postgrad. and post-hons. courses, Rs. 240 p.a.; pass courses, Rs. 186 p.a.; res. courses, Rs. 120 p.a.

**ACADEMIC YEAR.** June to April, 3 terms. June 15 to Sept. 24; Oct. 10 to Dec. 17; Jan. 2 to April 8.

**LANGUAGE OF INSTRUCTION** at present is English.

**SCHOLARSHIPS.** Maintenance allowance of Rs. 25 p.m. granted to eligible students of 3-yr. degree courses in addition to the fee concessions granted by the univ. and govts. 2 studentships each of value of Rs. 50 p.m. available in each of the Telugu and Sanskrit depts. and one studentship each in the remaining depts. In addition, one full-fee scholp. or 2 half-fee scholps. available in each dept. Except in cases where U.G.C. provides res. scholps. each dept. is allotted one res. scholp. of monthly value of Rs. 50 in 1st yr., Rs. 80 in 2nd yr. and Rs. 100 in 3rd yr. Besides these, endowment scholps. also available for students of pass, postgrad. and res. courses.

**STUDENT RESIDENCE.** Univ. hostel, consisting of 2 blocks, has accomm. for 160 students.

**STAFF RESIDENCES.** Six staff quarters for profs. of the univ. 12 quarters each for readers and lectrs.

**PUBLICATIONS.** *Laws of the Univ.* (1960), *Annual Report*, *College Magazine*.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: 12 quarters each for readers and lectrs. *Approaching completion*: extension to labs.; V.C.'s quarters; admin. bldg.; health centre; engin. coll. bldg.; arts block; 4 hostel blocks (to

accomm. 400); 4 dep. warden's quarters.

**NEW DEPARTMENTS AND CHAIRS.** Depts. and chairs of Arabic, Persian & Urdu; bot.; geol.; hist. and psychol.

**Statistics**

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	7763	9
Women . .	712	2
Total .	8475	11

Distribution by Faculties. *Agric.*, 73 ; *arts*, 5473 ; *comm.*, 178 ; *educn.*, 223 ; *engin.*, 670 ; *fine arts*, 5 ; *med.*, 308 ; *oriental learning*, 153 ; *scis.*, 1033 ; *vet. sci.*, 370. Total : 8486.

*Included in the figures above are :—*

Pre-University students, 2906.

Pre-Professional students, 462.

Postgraduate students, 423.

New admissions, 4756.

Students from other countries, nil.

DEGREES AWARDED (1958-59). *Arts* : BA, 498 ; BA (hons.), 37 ; MA, 17 ; MA (hons.), 3. *Comm.* : BCom, 29. *Educn.* : BEd, 135. *Engin.* : BE, 61. *Sci.* : BSc, 114 ; BSc (hons.), 35 ; MSc, 3. *Total number of first degrees awarded*, 774.

CERTIFICATES AWARDED (1958-59). *Inter.*, 325 ; *pre-univ.*, 790 ; *pre-professional*, 260.

ORIENTAL TITLES AWARDED (1958-59). 22.

# UTKAL UNIVERSITY\*

Founded 1943

*Postal Address* : Cuttack 1, Orissa, India  
*Cables and Telegrams* : University, Cuttack  
*Telephone (Registrar)* : Cuttack 193

CHANCELLOR—Y. N. SUKTHANKAR, MA LLB *Camb.*

PRO-CHANCELLOR—PANDIT N. DAS, MA DI.itt

VICE-CHANCELLOR—Col.-Commandant P. P. PARIJA, OBE, MA *Camb.*, DSc *Patna & Utkal*, FNI

REGISTRAR—G. C. RATH, MA DipLibSc *Madr.*

ASSISTANT REGISTRAR—D. P. BARAI, MA DipEd

## UNIVERSITY TEACHING DEPARTMENTS

[†=Part-Time]

[§ = Attached to Ravenshaw College, Cuttack]

<b>Anthropology</b>		<b>Political Science §</b>	
Aiyappan, A., MA PhD <i>Lond.</i> 2 Lectrs.	Prof.	Rao, K. V., MA DI.itt 2 Lectrs.	Reader
<b>Geology §</b>		<b>Psychology §</b>	
Dey, A. K., DIC, PhD <i>Lond.</i> Satapathy, N., DSc <i>And.</i> 6 Lectrs.	Prof. Reader	Rath, R., MA PhD <i>Lond.</i> 2 Lectrs.	Reader
<b>History §</b>		<b>Rural Economics and Sociology</b>	
Das, M. N., MA PhD <i>Lond.</i> 2 Lectrs.	Reader	Misra, B., MA PhD <i>Lond.</i> Sharma, Miss Jyotirmayee, MA PhD <i>Chic.</i>	Reader Reader
<b>Modern European Languages</b>		<b>Sanskrit</b>	
Sinha Ray, P., DipLSc <i>Calc.</i> , MA DipFrench	Lectr.-in-Charge	Pradhan, P., MA Swain, A., MA PhD <i>Harv.</i> 2 Lectrs.	Prof. Reader
<b>Philosophy</b>		<b>Statistics §</b>	
Misra, G., MA PhD <i>Lond.</i> 3 Lectrs.	Reader	Das, S. C., MA 2 Lectrs.†	†Reader
<b>Physics §</b>			
Dutta, A. K., DSc <i>Dacca</i>	Mayurbhanj Prof.		

## COLLEGES OF THE UNIVERSITY

[LLB, BSc(Engin), etc., after the name of a coll. means that courses are provided there for LLB, BSc(Engin), etc.]

CUTTACK, *Madhusudan College* (transferred to Univ. by Govt. of Orissa in 1949). LLB. Prof. of Law—K. Satyanarayana Murthy, BA *Madr.* & *And.*, ML *Madr.* 6 Lectrs.†

SAMBALPUR, *University College of Engineering*, Burla (founded 1956) (tel. : Burla 11A). Princi-

pal—B. Prasad, BSc *Manc.*, MSc BL, MIE (India). CHEM.—S. Pani, MSc PhD *Lond.*, Reader ; CIVIL ENGIN.—B. Behera, MSc *Iowa*, MIE, Prof. ; MATHS.—J. N. Panda, MSc, Reader ; MECH. ENGIN.—B. Mohapatra, MSc *Tor.*, BE, Reader ; PHYS.—B. B. Banerjee, MSc *Calc.*, Reader. 25 Lectrs.

\* Member of the Association of Universities of the British Commonwealth



## AFFILIATED COLLEGES

ANGUL (DIHENKANAL), *Govt. Training College* (founded 1955). BEd. Principal & Admin. Officer—S. Nath, MA Lond. Teaching staff: S. Das, DipEd Patna, MA and 7 other Lectrs.

ANGUL, *Intermediate Science College* (1958). ISc. Principal & Admin. Officer—C. M. Bastia, MSc.

BALASORE, *Fakir Mohan College* (1944) (tel.: Balasore 18). BA, ISc. Principal & Admin. Officer—M. A. John, MA. Teaching staff: BOT.—L. M. Sircar, MSc; CHEM.—K. C. Dash, MSc; ECON.—S. V. Ramayya, MA; ENGL.—S. Sahu, MA; HINDI—S. N. S. Yadab, MA; HIST.—P. K. Patra, MA; MATHS.—M. Das, MA; PHILOS.—K. V. Krishna Rao, MA; PHYS.—R. L. Banerjee, MSc; SANSK. AND ORIYA—B. Jena, MA; ZOOL.—Principal M. A. John, MA. 28 other Lectrs.

BARIPADA (MAYURBHANJ), *Maharaja Purna Chandra College* (1948) (tel.: Baripada 24). BA, ISc. Principal & Admin. Officer—J. Mohanty, MA. Teaching staff: BIOL.—S. N. Mitra, MSc; CHEM.—T. M. Patnaik, MSc; ECON.—K. P. Nigam, MA; ENGL.—T. E. Jayaraman, MA; HIST.—J. Patnaik, MA; MATHS.—B. S. K. R. Somayajulu, MA; PHYS.—G. Parthasarathi, MSc; SANSK.—R. M. Mahapatra, MA; ORIYA—B. Rout, MA; ZOOL.—U. C. Panda, MSc; LOGIC—S. K. Nanda, MA; HINDI—C. S. K. Jain, MA. 10 other Lectrs.

BERHAMPUR (GANJAM), *Govt. Women's College* (1958). IA. Principal & Admin. Officer—Miss Premalata Behera, MA DipHS Delhi.

BERHAMPUR (GANJAM), *Khalkiote College* (1878) (tel.: Berhampur 67). BA, BSc, BCom. Principal & Admin. Officer—N. Padhi, MA Calc., LT Madr. Teaching staff: CHEM.—P. V. Jagannadha Row, MSc BEd; COMM.—G. Panda, MCom; ECON.—N. Padhi, MA Calc., LT Madr.; ENGL.—S. Krishna, MA; HIST.—M. Basiston, MA; MATHS.—K. N. Sundaresan, BA And.; PHILOS.—C. Sitaramaiah, BA And.; PHYS.—K. V. Iyer, BA Madr.; SANSK. AND ORIYA—C. M. Das, MA; TELUGU—V. N. Sastry; HINDI—M. Bhatt. 24 other Lectrs.

BHADRAK (BALASORE), *Bhadrak College* (1948). ISc, BA. Principal & Admin. Officer—B. B. Rakshit, MA. Teaching staff: CHEM.—A. M. G. Hosnau, MSc; ECON.—S. Mohanty, MA; ENGL.—M. Radhakrishna, MA; HIST.—S. K. Ray Choudhury, MA; HINDI—R. Singh, MA; LOGIC—A. K. Nandi, MA; MATHS.—D. Panda, MA; PHYS.—M. Asfar, MSc; SANSK.—P. N. Banerjee, MA; ORIYA—K. C. Behera, MA; URDU—M. A. Kakovi, MA. 14 other Lectrs.

BHUBANESWAR, *Buxi Jagabandhu Bidyadhar College* (1957). ISc. Principal & Admin. Officer—R. C. Rajguru, MSc. Teaching staff: BIOL.—Md. Zaffrullah, MSc; CHEM.—N. K. Das, MSc; ECON.—S. N. Misra, MA; ENGL.—J. Patel, MA;

HIST.—P. K. Patnaik, MA; MATHS.—U. Mahapatra, MA; ORIYA—B. Mohanty, MA; PHILOS.—K. P. Misra, MA; PHYS.—R. C. Rajguru, MSc. 15 other Lectrs.

BHUBANESWAR (ORISSA), *Uthal Krushi Mahavidyalaya* (1954). BAg. Principal—P. D. Dixit, MSc Luck. Teaching staff: AGRIC. ENGIN.—J. Padhi, BSc(AgEng); AGRON.—B. N. Sahu, MS PhD Mich.; BOT.—B. Misra, BSc(Ag) MSc; CHEM.—P. C. Ghosh, MSc; ENGL.—B. Sahu, MA; HORTIC.—S. N. Bhoy, MSc(Hort) Calif., BScAg; PHYS.—A. K. Mahapatra, MSc; VET. SCI.—A. Misra, BVSc Madr.; ZOOL.—B. M. Pattanaik, BScAgric Delhi. 15 other Lectrs.

BOLANGIR (BOLANGIR PATNA), *Rajendra College* (1943). ICom, BA. Principal & Admin. Officer—D. N. Dutt, MA BL. Teaching staff: COMM.—R. K. Sahany, MACom LLB; ECON.—P. K. Puri, MA; ENGL.—B. J. B. Mohapatra, MA; HIST.—J. K. Dwivedi, MA; MATHS.—M. K. Wadikhaya, MSc; ORIYA—K. M. Mohapatra, MA; PHILOS.—A. Manan, MA; SANSK.—P. dt. S. Das Sharma. 4 other Lectrs.

CUTTACK, *Christ College* (1944) (tel.: Cuttack 213). BA. Principal & Admin. Officer—B. Mohanty, MA BL Calc. Teaching staff: ECON.—V. Subhramanyan, MA; ENGL.—S. R. Banerji, MA; HIST.—S. C. Behera, MA; MATHS.—M. N. Ray, MSc; ORIYA—S. Das, MA DipEdn Patna; PHILOS.—S. R. Mukherjee, MA; SANSK.—R. Sarangi, MA; HINDI—S. C. Nanda, MA. 5 other Lectrs.

CUTTACK, *Radhanath Training College* (1923) (tel.: Cuttack 275). BEd. Principal & Admin. Officer—B. N. Rath, MA Lond. 5 other Lectrs.

CUTTACK, *Ravenshaw College* (1868) (tel.: Cuttack 56). IA, ISc, ICom, BA and BSc (pass and hon.), MA, MSc. Principal & Admin. Officer—S. Misra, MA PhD Lond. Teaching staff: BENGALI—V. N. Mukherjee, MA; BOT.—B. Samantarai, DIC, BL MSc PhD Lond.; CHEM.—D. Patnaik, DIC, MSc PhD Camb.; COMM.—P. C. Roy, MA; ECON.—D. C. Misra, AM PhD Harv., MA; EDUCN.—G. K. Mohanty, DipEd Brist., MA; ENGL.—A. P. O'Brien, MA BL DPhil Calc.; GEOG.—M. M. Hasan, MA Aliq., MEd Patna; GEOL.—A. K. Dey, DIC, PhD Lond.; HIST.—P. Mukherjee, MA DipEd; HINDI—H. M. P. Srivastab, MA; MATHS.—R. N. Mohanty, MSc PhD Lond.; ORIYA AND SANSK.—K. B. Tripathy, MA BL PhD Lond.; PHILOS.—S. K. Chhatopadhyaya, MA; PHYS.—A. K. Dutta, DSc Dacca; POL. SCI.—K. V. Rao, MA DLitt; PSYCHOL.—R. Rath, MA PhD Lond.; STATS.—S. C. Das, MA; URDU AND PERSIAN—S. M. Hassan, MA MEd; ZOOL.—B. Behura, MSc PhD Lond. 110 other Profs. and Lectrs.

CUTTACK, *Sailabala Women's College* (1915) (tel.: Cuttack 264). BA. Lady Principal & Admin. Officer—Mrs. Irene L. Sinha, MA Lond.

Teaching staff : BENGALI—Miss Renu Ghosh, MA ; DOM. SCI.—Basanti Mohapatra, BA DipEd ; ECON.—Miss Debabala Ray, MA ; ENGL.—Mrs. Urmila Das, MA ; HIST.—Mrs. Irene L. Sinha, MA Lond. ; HINDI—Mrs. Malati Upadhyayaya, MA ; MATHS.—Miss Rama De, MA ; ORIYA—Miss Santilata Behera, MA ; PHILOS.—Mrs. Uma Misra, MA ; SANSK.—Miss Sova Roy, MA. 6 other Lectrs.

CUTTACK, *Sri Ramchandra Bhanj Medical College* (1949) (tel. : Cuttack 239). MB BS. Principal & Admin. Officer—R. Mahanti, MB BS BSc Tor. Teaching staff : ANÆSTH.—G. Mohapatra, MB BS DA ; ANAT.—R. K. Mahanti, BSc Tor., MB BS ; DENTAL SURG.—G. Patnaik ; EAR, NOSE AND THROAT—G. N. Das, MB BS DLO ; FORENSIC MED.—G. P. Mohanty, MB DTM&H DCP Lond., PhD ; MED.—R. N. Sahu, MB BS Patna, DCH Lond., MRCP ; MIDW.—Mrs. Jyotsna Dci, MB BS ; OPHTHALMOL.—M. C. Mishra, MB BS DOMS ; PATHOL.—A. M. Tripathy, PhD Belf., DMR Madr., MB BS, FRP&SGlas ; PHARM.—K. N. Ojha, MD PhD ; PHYSIOL.—R. K. Das, MB BS PhD Lond. ; RADIOL.—G. B. Mohanty, MB BS DMRD ; SKIN AND VENEREAL DISEASES—K. C. Sahu, MB BS DPH Lond., DCH Dub., DTM&H Liv. ; SOC. AND PREV. MED.—R. G. Panigrahi, MB BS DPH Calc., MPH Harv., DTM&H Lond. ; SURG.—G. S. Dasmohapatra, MS Patna, FRCSEd. 56 other Profs., Asst. Profs. and Lectrs.

CUTTACK, *Stewart Science College* (1944) (tel. : Cuttack 268). ISc. Principal & Admin. Officer—Rev. E. G. Collins, BD TC Camb. Teaching staff : CHEM.—S. K. Mukherjee ; ENGIN.—D. K. Samantaray, MA ; MATHS.—S. M. Das ; ORIYA—R. N. Dasjew, MA ; PHYS.—K. N. Ghoshal, MSc. 7 other Lectrs.

JAJPUR (CUTTACK), *Narsingha Choudhury College* (1946). IA. Principal & Admin. Officer—N. C. Goswami, MA. 14 other Lectrs.

JEYPORE (KORAPUT), *Vikram Deb College* (1947). IA, ISc. Principal & Admin. Officer—H. K. Misra, MA.

KEONJHAR, *Intermediate Science College* (1957). ISc. Principal & Admin. Officer—P. K. Pati, MA. 10 other Lectrs.

ORISSA, *College of Veterinary Science and Animal Husbandry* (1955). BVSc&AH. Principal & Admin. Officer—B. N. Patra, BSc. Teaching

staff : ANAT.—J. N. Prusty ; ANIMAL HUSB.—K. N. Mahapatra ; BACTERIOL.—J. Das ; BIOL.—P. D. Das, MSc ; GYNÆCOL.—B. B. Mohanty ; MAT. MED. AND THERAPEUTICS—A. Mishra ; MED.—S. K. Mishra ; PHYSIO.—N. Patnaik ; SURG.—B. N. Patra. 31 other Lectrs. & Instrs.

PARLAKIMEDI (GANJAM), *Sri Krishna Chandra Gajapati College* (1886). BA, ISc. Principal & Admin. Officer—A. C. Bir, MSc. Teaching staff : AGRIC.—S. C. Rakshit, MSc Ban. ; BOT.—P. S. Rao, MSc ; CHEM.—R. C. Acharya, MSc ; ECON.—A. K. Ray, MA ; ENGL.—K. C. Deb, MA ; HIST.—R. M. Sahu, MA ; MATHS.—A. Dash, MA ; ORIYA—S. Hota, MA ; LOGIC—R. N. Bhattacharya, MA ; ZOOL.—S. Pati, MSc ; PHYS.—S. Panda, MSc ; HINDI—K. Prasad, MA. 8 other Lectrs.

PURI, *Samanta Chandra Sekhar College* (1944) (tel. : Puri 55). BA, ISc. Principal & Admin. Officer—D. Misra, MA Patna, AM Col., PhD. Teaching staff : BOT.—K. L. Parthasarathi, MSc ; CHEM.—K. Senapati, MSc ; ECON.—M. Mohapatra, MA ; ENGL.—S. S. Das, MA ; HIST.—U. C. Misra, MA ; MATHS.—S. C. Das, MA ; ORIYA AND SANSK.—G. B. Dhal, MA Lond. ; PHILOS.—H. L. Debnath, MA ; PHYS.—H. M. Patnaik, MSc ; ZOOL.—N. Mahapatra, MSc. 26 other Lectrs.

SAMBALPUR, *Gangadhar Meher College* (1944) (tel. : Sambalpur 13). BA, BCom, ISc. Offg. Principal & Admin. Officer—S. K. Panda, MA. Teaching staff : BOT.—S. Nayak, MSc ; CHEM.—P. C. Brahma, MSc ; COMM.—S. K. Das, MCom PhD ; ECON.—D. D. Jena, MA ; ENGL.—M. K. Chakravarty, MA ; MATHS.—S. P. Misra, MSc ; ORIYA—B. Nanda, MA ; PHILOS.—P. Rath, MA ; PHYS.—J. Mohapatra, MSc ; ZOOL.—P. N. Chatterjee, MSc PhD. 31 Asst. Profs. and Lectrs.

SAMBALPUR, *S.C.B. Medical College Extension* (1959). MB BS. Principal & Admin. Officer—R. N. Misra, MB BS, FRCS. Teaching staff : PHYSIOL.—R. N. Sen, MB BS DPhil. 7 other Lectrs.

SAMBALPUR, *Women's College* (1959). IA. Principal & Admin. Officer—Miss Asha Mittra, MA BT. 5 other Lectrs.

SUNDERGARH, *Intermediate Science College* (1958). ISc. Principal & Admin. Officer—P. K. Das, MSc.

## GENERAL INFORMATION

After the separation of Orissa from Bihar and the creation of a new province of Orissa in April 1936, there was a strong desire among the leaders of the province for the establ. of a sep. univ. in Orissa. In 1942 a cttee. was formed, with Pandit Godavarish Misra, then Minister of Education, Orissa, as president, to frame and draft the univ. bill, which, after being passed in the Orissa legislative assembly, received the assent of the gover-

nor of Orissa on Nov. 23, 1943. From that date Utkal Univ. came into being under the Utkal Univ. Act, 1943 (Orissa Act XIII of 1943).

CONSTITUTION. The univ. authorities are : the senate, the supreme governing body of the univ. ; the syndicate, the univ. executive body ; the academic council, which deals with academic matters only ; and the matric. bd. Other statutory bodies are the facs. and bds. of studies.

INCOME (1958-59). Total : Rs. 3,435,821.

FACULTIES AND DEANS. *Agric.*, D. Misra ; *arts*, Dr. A. B. Mohanty ; *comm.*, B. C. Das ; *educn.*, B. N. Rath ; *engin.*, B. Prasad ; *law*, Hon. Justice H. Mohapatra ; *med.*, K. N. Misra ; *sci.*, Dr. B. Samantarai ; *vet. sci. & animal husb.*, G. Biswal.

UNIVERSITY PRECINCT. The univ. is locating its campus at Bhubaneswar new capital. Construcn. work has started on the arts block, hostels, staff quarters, and plans and estimates of other bldgs. are in preparation. Burdwan House, with about 2 acres of land, was purchased by the univ. from the Maharajadhiraj of Burdwan and the univ. library, the depts. of rural econ. & sociol., Oriya encyclopædia, dipl. classes in foreign langs. and postgrad. depts. in philos. and Sansk. are located there. Steps have been taken to construct bldgs. for the M.S. Law Coll. and hostels of the univ. near the present library bldgs.

LIBRARY. 33,866 vols., 2110 periodicals, 1330 calendars, prospectuses, etc., of other univs., 1201 palm-leaf MSS.

ADMISSION to univ. inter. courses is by one of the following exams. recognized as equivalent to the former matric. exam. of the univ. : matric. exam., or equivalent, of any univ. in India constituted by an act of provincial or central legislature ; S.S.L.C. exam. conducted by Madras and Andhra S.S.L.C. bds. ; exam. for Indian army spec. cert. of educn. ; Indian air force matric. test ; higher educn. test of Indian navy ; sr. sch. cert. exam. of govt. of Ceylon ; sr. Cambridge sch. cert. exam. ; high sch. exam. of bd. of sec. educn., Madhya Bharat, Gwalior ; S.S.L.C. exam. of sec. educn. bd., Mysore ; high sch. exam. of bd. of high sch. and inter. educn., Rajputana ; Bombay sec. sch. cert. exam. of sec. sch. cert. exam. bd. of govt. of Bombay ; high sch. exam. of bd. of high sch. and inter. educn., Uttar Pradesh, Allahabad ; Vidya Vinodini exam. with advanced Engl. and maths. of Prayag Mahila Vidyapitha, Allahabad ; high sch. exam. of central bd. of sec. educn., Ajmer ; British civil services commission forces prelim. exam. ; sec. sch. exam. of the Bihar sch. exam. bd., Patna ; sch. final exam. of the bd. of sec. educn., W. Bengal.

FIRST DEGREES. 2 yrs.—BA (pass), BA (hons.), BSc (pass), BSc (hons.), BCom, BSc(Eng), BAgr ; 3-yr. degree course started from 1960-61 ; 4 yrs.—BVSc ; 5 yrs.—MB BS. BOL : no teaching provision made ; exam. open to eligible private candidates who are teachers.

HIGHER DEGREES. 1 yr.—BED ; 2 yrs.—MA, MSc (after BSc), MEd, LLB, LLM (for private candidates only) ; by thesis only—PhD, DLitt, DSc.

MA may be taken in econ., Engl., hist., maths., Oriya, philos., Sansk. Postgrad. classes have also been started in anthropol., hist., pol. sci., psychol., statistics. MSc may be taken in bot., chem., geol. & mineral., maths., phys.

DIPLOMAS. Mod. European langs. (French & German), 2 yrs ; statistics, foreign affairs, 1 yr.

CERTIFICATE. Mod. European langs. (French & German), 1 yr.

RESEARCH. In order to promote study and res. in different branches of knowledge the senate has constituted a Jnan Vijnan Parishad for giving monetary aid for schemes of res. submitted by teachers of the univ.

COLLEGE FEES (per month). Inter. (arts and comm.), Rs. 8 ; inter. (sci.), Rs. 9 ; BA (pass), Rs. 9 ; BA (hons.), Rs. 10 ; BSc (pass), Rs. 10 ; BSc (hons.), Rs. 11 ; BCom, Rs. 9 ; LLB (pt. I), Rs. 14 ; LLB (pt. II), Rs. 14 ; MA, Rs. 12 ; MSc, Rs. 14 ; dipl. and cert. in French and German, Rs. 5 per subj.

The usual LANGUAGE OF INSTRUCTION is English.

ACADEMIC YEAR. July to April, 2 terms. Term dates (approx.) : July 16 to Dec. 21 ; Jan. 2 to April 30.

EXTENSION LECTURES. The univ. invites specialists to address the staff and students. The lectures are both general and specialized and are sometimes delivered in affiliated colls.

RESIDENCE. 38 hostels, providing accomm. for 2008 men and women. Fees vary according to hostel. Also 2 hostels for M.S. Law Coll. with accomm. for 51 students ; both hostels directly under control and management of the univ.

ATHLETIC FACILITIES. Intercollegiate games and sports organized by cttee. apptd. by syndicate.

STUDENTS' INFORMATION BUREAU, Cuttack 1. Furnishes information to students regarding Indian & foreign univs. and other educn. instns. and helps grads. to secure admission to univs., etc., in foreign countries.

WORLD UNIVERSITY SERVICE BRANCH. The objects of the branch are : mutual help, mutual educn. and mutual understanding. Monetary help is rendered to needy students for exam. fees and purchase of books. Two hostels, 1 for men and 1 for women, have been establd.

NATIONAL CADET CORPS. 1st Orissa battalion, N.C.C., has 1 sr. div. for colls. in Cuttack and 9 jr. divs. for other univ. colls.

PUBLICATIONS. Annual : *Calendar* (vol. I, Rs. 5 ; vol. II, Rs. 7) ; *Financial Estimate* (free) ; *Annual Report* (free) ; *Exam. Syllabuses* (various prices). Occasional : *Regulations* (Rs. 2.8) ; *Statutes* (Rs. 2.8) ; *Text Books* (various prices).

UNIVERSITY PRESS. In 1949 the Maharaja of Mayurbhanj gifted the entire Mayurbhanj state press and press bldg. to the univ. The press is managed by a cttee. constituted by the syndicate and is located at Cuttack.

# THE YEAR 1959

## Statistics

### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	10,543	—
Women . . .	1,329	—
Total . . .	11,872	—

Distribution by Faculties, etc. *Agric.*, 279 ;  
*ls.*, 5448 ; *comm.*, 491 ; *educn.*, 188 ; *engin.*, 360 ;  
*law*, 263 ; *med.*, 527 ; *sci.*, 4111 *vet. sci.* &  
*animal husb.*, 205. Total : 11,872.

*Included in the figures above are :—*

Intermediate or Pre-University students, 6958.

Postgraduate students, 509.

Students from other countries, 7.

DEGREES AWARDED (1958-59). BA (pass), 606 ;  
BA (hons.), 156 ; BAg, 31 ; BCom, 95 ; LLB,  
49 ; MB BS, 29 ; BSc (pass), 167 ; BSc (hons.),  
76 ; BOL, 1 ; MA, 62 ; MEd, 10 ; MSc, 9 ;  
PhD, 1 ; DSc, 1. *Total number of first degrees  
awarded, 1178.*

DIPLOMAS AWARDED (1958-59). *Educn.*, 144 ;  
*statistics*, 14.

# VIKRAM UNIVERSITY\*

Founded 1957

Postal Address : University Road, Ujjain, Madhya Pradesh, India

Cables and Telegrams : University Ujjain

Telephones : Ujjain 30, 63, 298-9

CHANCELLOR—SHRI H. V. PATASKAR, BA LLB, Governor of Madhya Pradesh

VICE-CHANCELLOR—G. L. DATTA, MA PhD

TREASURER—L. B. SETHI

REGISTRAR—G. D. WIDHANI, MA

## ADMINISTRATIVE AND OTHER STAFF

ASST. REGISTRARS. Admin.—V. M. Desai, MA; Accounts—S. C. Seth, MA;  
Exams.—.....

## CONSTITUENT COLLEGES

[† = Part-Time; BA, BSc, etc., after the name of a coll. means that courses are provided there for BA, BSc, etc.]

BHOPAL, *Govt. Hamidia College*. Founded 1946; managed by govt. BA, BSc, BCom, MA, MSc, MCom, LLB. Principal—P. C. Malhotra, MA. Hds. of Depts.: ARABIC—O. I. Moham-mad Arab, MA; BOT.—Prof. S. D. Saxena, MSc PhD; CHEM.—Prof. H. P. Agrawal, MSc PhD; COMM.—Prof. R. C. Shukls, MCom LLB PhD; ECON.—P. C. Malhotra, MA; GEOL.—S. C. Varma; HIST.—Prof. K. S. Lal, MA DPhil; LAW—P. L. Shrivastava, BA LLM, Sr. Lectr.; MATHS.—Prof. P. R. Khandekar, MSc; POL. SCI.—Prof. R. P. Pandey; SANSK.—P. N. Kawthekar, MA PhD; URDU—Prof. G. Jain, MA DPhil. Other staff: 4 Sr. Lectrs., 41 Lectrs., 2 Lectrs.†

BHOPAL, *Postgraduate Basic Training College*. F. 1955; govt. BEd(Basic), MEd. Principal—G. Chaurasia, MA LLB DEd. Prof.: N. L. Vaidya, DipEd Lond., MA BT. Other staff: 1 Asst. Prof., 6 Lectrs.

DEWAS, *Government Teachers' College*. F. 1949; govt. BEd, MEd. Principal—Mrs. F. Chawdhary. Other staff: 3 Jr. Profs., 1 Lectr., 4 Instrs.

GWALIOR, *Gajara Raja Medical College*. F. 1946; govt. MB BS, MD, MS, DMRE, DGO. Principal—B. N. Balkrishana Rao, BSc MB BS, FRCS. Profs.: ANAT.—(Offg.) I. P. Agarwal, BSc MB BS; MED. JURISP.—S. V. Dube, MB BS DMRE Luck.; MED.—P. N. Laha, MD, MRCP; OBSTET. AND GYNÆCOL.—Mrs. Indira N. Bhonsale, MD BS; OPHTHALMOL.—A. H. Firdausi, MB BS Luck., LO Madr., DO Oxon.; PATHOL. AND BACTERIOL.—B. P. Saxena, MD PhD; PHARMA-COL.—S. L. Agarwal, MD; PHYSIOL.—N. P.

Benawari, MD; RADIOL.—Lt.-Col. J. L. Razdan, MB BS DTM&H Lond., DMRE Camb.; SOC. AND PREV. MED.—(Offg.) S. L. Dube, MB BS Agra, DPH Calc. Other staff: 3 Asst. Profs., 8 Readers, 17 Lectrs., 3 Asst. Surgeons, 1 Health Officer, 21 Demrs.

GWALIOR, *Madhya Pradesh College of Agri-culture*. F. 1950; govt. BSc(Agri), MSc(Agri). Hds. of Depts.: AGRIC. CHEM.—Prof. S. B. Sinha, MSc(AgriChem) DPhil; AGRIC. ECON.—O. M. Prakash Dahama, MA MSc, Lectr.; AGRON.—Prof. M. P. Singh, MSc; HORTIC.—Prof. S. Kumarsingh Gaur, MSc(Ag) LLB; PATHOL.—Laxmi-Kant Joshi, MSc(Ag), Jr. Prof. Other staff: 1 Prof., 1 Jr. Prof., 19 Lectrs., 5 Demrs.

GWALIOR, *Maharani Lakshmi Bai College*. F. 1890; govt. BA, BSc, BCom, MA, MSc, MCom, LLB. Principal—S. S. Saxena, MSc PhD. Hds. of Depts.: BOT.—Prof. H. B. Saxena, MSc; CHEM.—R. Kaushal, PhD DSc, Jr. Prof.; COMM.—Prof. K. C. Bhandari, MCom LLB PhD; ECON.—(Offg.) Prof. V. S. Shrivastava; ENGL.—Prof. P. C. Joshi, MA LLB; GEOG.—Prof. M. A. Quraishi, MSc; HINDI—Prof. G. P. Tandon, MA; HIST.—Mrs. Ramola Chaudhary, MA PhD, Prof.; LAW—Prof. G. C. Kasliwal, JSD Corn., MA LLM; MILIT. SCI.—P. K. Mukerjee, MSc DiplPhysEducn, Jr. Prof.; PHILOS.—B. L. Nigam, MA LLB, Jr. Prof.; PHYS.—Prof. A. P. Saxena, MSc PhD; POL. SCI.—Prof. Prakash-chandra, MA PhD Lond.; ZOOL.—Prof. S. S. Saxena, MSc PhD. Other staff: 1 Prof., 21 Jr. Profs., 62 Lectrs., 3 Lectrs.†

INDORE, *Holkar College*. F. 1891; govt. BA,

\* Member of the Association of Universities of the British Commonwealth

BSc, BCom, MA, MSc, MCom, LLB. Principal—W. V. Bhagwat, DSc. Hds. of Depts.: CHEM.—Prof. S. N. Kaveeshwar, MSc PhD; COMM.—Prof. S. L. Sharma, MA LLB BCom; ECON.—Prof. R. K. Yardey, MA LLB BCom; HIST.—Prof. D. Bhanu, MA PhD; LAW—Prof. P. P. Pandit, BSc LLB; MATHS.—Prof. P. C. Gangarade, MSc; PHILOS.—Prof. G. W. Kaveeshwar, MA LLB; PHYS.—S. D. Choubey, MSc, Jr. Prof.; POL. SCI.—J. P. Dube, MA LLB Sahitya Ratna, Jr. Prof.; ZOOL.—B. S. Gogate, MSc, Jr. Prof. Other staff: 2 Profs., 2 Profs.†, 20 Jr. Profs., 72 Lectrs.

INDORE, *Indore Christian College*. F. 1884; private. BA, MA, LLB. Principal—C. W. David, MA. Hds. of Depts.: ENGL.—Prof. V. J. Isadass, MA; HINDI—C. W. David, MA; HIST.—J. H. Halla, MA; LAW—Prof. E. Y. Paul, MA LLB; PHILOS.—Prof. C. P. Brahmo, MA LLB PhD; POL. SCI.—Prof. N. C. Chatterjee, MA; SANSK.—Prof. D. G. Sapre, MA Sahitya Ratna; SOCIOL.—C. M. Abraham, MA LLB. Other staff: 9 Profs., 1 Asst. Prof., 6 Lectrs., 2 Lectrs.†

INDORE, *Mahatma Gandhi Memorial Medical College*. F. 1948; govt. MB BS, MD, MS, DCH, DT, DO. Principal—B. C. Bose, MD DSc. Profs.: ANAT.—G. A. Kher; MED.—Akbar Ali, MB BS, MRCP; OBSTET. AND GYNÆCOL.—B. N. Jungalwalla, MD BS; OPTHALMOL.—B. K. Dhir, MB MS DOMS;

PATHOL. AND BACTERIOL.—C. M. Rangam, MD; PHYSIOL.—R. B. Mathur, MD; PREV. AND SOC. MED.—M. L. Mittal, MB Calc., MD *Agra*, MPH *Harv.*; SURG.—B. B. Ohri, MS, FRCS. Other staff: 3 Asst. Profs., 8 Readers, 17 Lectrs., 1 Lectr.†, 4 Demrs.

SEHORE, *Rafi Ahmad Kidwai Institute of Agriculture*. F. 1955; govt. BSc(Agri), MSc(Agri). Principal—R. S. Bhatt, MSc PhD. Profs.: AGRIC. CHEM.—A. Ramkrishna, MSc; BOT.—A. S. Dhillon, MSc(Agri) PhD; ENTOMOL.—R. R. Rawat, PhD *Adel.*, BSc. Other staff: 2 Sr. Lectrs., 7 Lectrs.

UJJAIN, *Madhav College*. F. 1946; univ. (management and control of coll. transferred to univ. by M. P. govt. for 5 yrs. from 1959). BA, BSc, BCom, MA, MSc, MCom, LLB. Principal—M. N. Kaul, MA. Hds. of Depts.: CHEM.—H. N. Sharma, MSc; COMM.—G. P. Gupta, MCom PhD; ECON.—V. D. Nagar, MA PhD; ENGL.—D. S. Mule, MA PhD; LAW—R. S. Vidyarthi, BA LLB; PHYS.—V. S. Dube, MSc PhD; SANSK.—V. Venketachalam, MA. Other staff: 10 Jr. Profs., 40 Lectrs.

UJJAIN, *Postgraduate Basic Training College*. F. 1957; govt. BEd(Basic), MEd. Principal—T. B. Naik, MA PhD. Profs.: Ramlal, MA MEd; S. R. Dube, MA MEd. Other staff: 4 Lectrs., 1 Vocational Guidance Officer.

## AFFILIATED COLLEGES

AMBAH, *Degree College*. Founded 1959. BA. Principal—R. S. Sharma, MA. Other staff: 6 Lectrs.

BARWANI, *Govt. Degree College*. F. 1957; managed by govt. BA, BSc, BCom. Principal—S. N. Bajpai, MA. Other staff: 6 Jr. Profs., 13 Lectrs.

BHIND, *Govt. Degree College*. F. 1959; govt. BA, BSc, BCom. Principal—G. R. Inamdar, MA. Other staff: 9 Jr. Profs., 11 Lectrs., 1 Phys. Instr.

BHOPAL, *Gandhi Medical College*. F. 1955; govt. MB BS. Principal—R. P. Singh, MS. Profs.: ANAT.—K. N. Bhargava, MS; MED.—S. M. Mishra, MD; OBSTET. AND GYNÆCOL.—Mrs. M. K. Lokre, MD; PATHOL. AND BACTERIOL.—M. M. Arora, MD; PHARMACOL.—S. S. Gupta, MD; PHYSIOL.—N. Singh, MD; SOC. AND PREV. MED.—C. M. S. Sidhu, MD BS *Luck.*, DPH *Calc.*; SURG.—M. Kumar, MB MS. Other staff: 9 Readers, 15 Lectrs., 4 Registrars, 5 Residents, 2 Curators, 10 Demrs., 1 Tutor.

BHOPAL, *M.L. Girls' College*. F. 1959; govt. BA, BSc. Principal—Vishalakshi Jauhri, MA. Other staff: 5 Jr. Profs., 11 Lectrs.

BHOPAL, *Saifia Degree College*. F. 1959; private. BA, BSc, BCom. Principal—A. H.

Quraishi, MA(Econ) *Alig.*, MEd DiplEdAdmin DiplGeog *Leeds*. Other staff: 1 Jr. Prof., 7 Lectrs.

DEWAS, *Govt. Degree College*. F. 1958; govt. BA, BSc, BCom. Principal—K. L. Shrivastava, MA. Other staff: 11 Lectrs.

DHAR, *Anand College*. F. 1957; govt. BA, BSc, BCom. Principal—B. N. Lunia, MA LT. Other staff: 9 Lectrs.

GUNA, *Govt. Degree College*. F. 1957; govt. BA, BSc, BCom. Principal—G. N. Tandon, MA. Hds. of Depts. (Jr. Profs.): CHEM.—D. N. Bedekar, MSc; COMM.—P. L. Golwalkar; ECON.—R. R. Khare, MA; ENGL.—V. K. Chari, MA PhD; HINDI—B. S. Jauhari, MA; HIST.—I. S. Mehta, MA; G. C. N. Kulshreshta, MSc; PHYS.—G. R. Singhal, MSc. Other staff: 1 Jr. Prof., 12 Lectrs.

GWALIOR, *Kamla Raja Girls' College*. F. 1939; govt. BA, BSc. Principal—Mrs. Uma Johri, MA LT. Hds. of Depts. (Jr. Profs.): ENGL.—E. Raju, MA, Prof.; GEOG.—Miss Prabhavati Bapat, MA; HINDI—Mrs. Saroj Rajwade, MA; HIST.—Miss Sangh M. Das Gupta, MA; MARATHI—Miss Champavati W. Ketkar, MA; POL. SCI.—Mrs. Satya Sapra, MA; SANSK.—Mrs. Lalita Haksar, MA. Other staff: 2 Jr. Profs., 5 Lectrs.

**GWALIOR, Lakshi Bai College of Physical Education.** F. 1959. BPE (bachelor of phys. educn.). Principal—P. M. Joseph, DiplPhysEd. Other staff : 2 Asst. Profs., 3 Lectrs.

**GWALIOR, Madhav Engineering College.** F. 1957; private. BSc(Engg). Principal—N. N. G. Dastidar, BSc(Tech). Profs.: ELECTR. ENGIN.—K. S. Rane, BE Bom., BSc(Eng) Lond., Dipl King's Coll., Lond.; MECH. ENGIN.—N. C. Dey, BSc Calc., B. D. Kelkar, BE Mys., MIE(India). Other staff : 1 Asst. Prof., 4 Lectrs., 2 Asst. Lectrs., 1 Asst. Lectr., 2 Demrs.

**GWALIOR (LASHKAR), Madhav Mahavidyalaya.** F. 1957; private. BA, BCom. Principal—G. S. Datar, MA. Hds. of Depts. (Jr. Profs.): DRAWING AND PAINTING—R. M. Bhand; GEOG.—G. Acharya, MA; HIST.—M. B. Manolkar, MA; MARATHI—S. G. Kunte, MA; MUSIC—D. R. Newaskar; POL. sci.—Miss Krishna Kodesia, MA. Other staff : 4 Jr. Profs.

**INDORE, Girls' Degree College.** F. 1956; govt. BA, BSc. Principal—Mrs. Indu Mehta, MA LLB. Other staff : 5 Jr. Profs., 18 Lectrs.

**INDORE, Govindram Saxseria Technological Institute.** F. 1958; private. BSc(Engg). Principal—V. H. Acharya, BSc Edin., BA, MIMechE. Profs.: CIVIL ENGIN.—V. H. Acharya, BSc Edin., BA, MIMechE; ELECTR. ENGIN.—N. R. Das Gupta, BSc Calc., BEng Sheff., MIE(India); MECH. ENGIN.—S. B. Sen, P. N. Malhotra, BSc Ban. Other staff includes 7 Assoc. Profs., 1 Asst. Prof., 5 Sr. Lectrs., 3 Lectrs., 7 Jr. Lectrs., 11 Instrs.

**INDORE, P.M.B. Gujarati College.** F. 1958; private. BA, BSc, BCom. Principal—K. N. Wani, MSc. Other staff : 2 Jr. Profs., 10 Lectrs.

**KHARGHONE, Govt. Degree College.** F. 1959; govt. BA, BSc, BCom. Principal—Narayan Singh, MA. Other staff : 6 Jr. Profs., 8 Lectrs.

**MANDSAUR, Govt. Degree College.** F. 1957; govt. BA, BSc, BCom. Principal—B. Shrivastava. Hds. of Depts. (Jr. Profs.): CHEM.—D. N. Kokil, MSc; COMM.—T. Singh, MCom; ECON.—G. W. Gande, MA; ENGL.—J. B. Kale, MA LLB; HINDI—P. D. Sharma, MA LLB Sahitya Ratna; HIST.—A. C. Jain, MA PhD; MATHS.—K. L. Agarwal, MSc; PHILOS.—T. N. Shukla, MA; PHYS.—R. L. Anikhindi, MSc. Other staff : 1 Jr. Prof., 8 Lectrs.

**MHOW, Govt. Degree College.** F. 1959; govt. BA, BSc, BCom. Principal—S. C. Chakrawarty, MSc PhD. Other staff : 10 Jr. Profs.

**MHOW, M.P. College of Veterinary Science & Animal Husbandry.** F. 1955; govt. BVSc. Principal—C. N. Kelkar. Profs.: ANAT. AND

SURG.—M. R. Patel, BVSc; PATHOL. AND BACTERIOL.—C. K. Pandit, BVSc; PHYSIOL. AND BIOCHEM.—J. D. S. Kumaran, MA PhD. Other staff : 7 Asst. Profs., 5 Demrs.

**MORENA, G.P. Degree College.** F. 1956; private. BA, BSc, BCom. Principal—S. K. Bagchi, MA. Hds. of Depts.: COMM.—(Actg.) R. C. Andhiwal, MA MCom; ECON.—Prof. G. Sharan, MA; GEOG.—R. S. Kulshrashtha, MA MCom; HINDI—B. M. Chakravarty, MA LT Sahitya Ratna; HIST.—M. L. Mehta, MA; POL. SCI.—V. S. Gupta, MA LLB. Other staff : 6 Lectrs.

**NEEMUCH, Govt. Degree College.** F. 1959; govt. BA, BSc, BCom. Principal—G. P. Pendse, MSc DPhil. Hds. of Depts. (Jr. Profs.): CHEM.—K. T. Mandloi; COMM.—M. B. Saxena; ECON.—P. H. Bhiwani; ENGL.—R. C. Singh; HINDI—D. C. Jain; MATHS.—G. M. Pendharkar; PHYS.—R. N. Mishra; POL.—J. V. Bhargava. Other staff : 10 Lectrs.

**RAJGARH (Vikramaditya), Govt. Degree College.** F. 1959; govt. BA, BSc, BCom. Principal—K. N. Nanda, MA. Other staff : 4 Jr. Profs., 4 Lectrs.

**RAMPURA, Govt. Degree College.** F. 1959; govt. BSc, BCom. Principal—G. Vyas, MA. Other staff : 4 Jr. Profs., 4 Lectrs.

**RATLAM, Govt. Degree College.** F. 1956; govt. BA, BSc, BCom. Principal—..... Hds. of Depts. (Jr. Profs.): CHEM.—M. D. Ratnakar, MSc, COMM.—S. C. Jain, MCom; ECON.—G. M. Tapkir, MA LLB; ENGL.—R. N. Sharma, MA LLB; HINDI—B. K. Sharma, MA Sahitya Ratna; HIST.—S. P. Chatterjee, MA; MATHS.—S. K. D. Gaur, MSc; PHYS.—M. S. Namjoshi, MSc; POL. SCI.—N. D. Sakhrkar, MA LLB; SANSK.—D. R. Joshi, MA. Other staff : 2 Jr. Profs., 10 Lectrs.

**SEHORE, Govt. Degree College.** F. 1959; govt. BA, BSc. Principal—A. N. Gupta, MA. Other staff : 7 Jr. Profs., 7 Lectrs.

**SHAJAPUR, Naveen Degree College.** F. 1959; private. BA, BCom. Principal—R. C. Shrivastava, MA. Other staff : 4 Lectrs.

**SHIVPURI, V.T.P. Degree College.** F. 1959; private. BA. Principal—S. Saran, MA. Other staff : 4 Lectrs.

**UJJAIN, Vijayaraje Girls' Degree College.** F. 1959; govt. BA, BSc. Principal—Mrs. Indurkar, MA. Other staff : 13 Lectrs.

**VIDISHA, S.S.L. Jain College, Bhilsa.** F. 1957; private. BA, BSc. Principal—S. S. Bodane, MSc. Other staff : 8 Jr. Profs.

## GENERAL INFORMATION

All the colls. in the former state of Madhya Bharat were affiliated to Agra Univ. and a need was felt for a new univ. there. An act establishing Vikram Univ. as a federal univ. with headquarters

at Ujjain, an ancient seat of learning, came into force in 1957 following the creation of the new state of Madhya Pradesh.

The univ. is an affiliating and teaching type

instrn., teaching being carried out in the constituent and affiliated colls. as well as in univ. depts. The univ. has establd. in 1960 postgrad. depts. of maths., phys. and stats. at Ujjain, chem. at Indore, bot. & zool. at Gwalior, and geol. at Bhopal. Its jurisdiction extends over the districts of Bhind, Dewas, Dhar, Guna, Gwalior, Indore, Jhabua, Mandasaur, Morena, Nimar (Khargone), Raisen, Rajgarh, Ratlam, Sehore, Shajapur, Shivpuri, Ujjain and Vidisha in Madhya Pradesh.

**CONSTITUTION.** The main univ. authorities are senate, syndicate, academic council, facs. and bds. of studies. Senate is the supreme body and univ. statutes and ordinances are subject to its approval. The syndicate is the executive body controlling day-to-day admin. The bds. of studies report to the facs., the facs. to the academic council, and the academic council to the syndicate. All other bodies report to the syndicate.

**INCOME (1958-59).** Rs. 1,047,950.

**FACULTIES AND DEANS.** *Agric.*, Dr. P. S. Lamba ; *arts*, P. C. Malhotra ; *comm.*, Dr. R. C. Shukla ; *educn.*, Dr. G. Chourasia ; *engin.*, N. N. G. Dastidar ; *law*, B. S. Johar ; *med.*, Dr. B. C. Bose ; *phys. educn.*, P. M. Joseph ; *sci.*, Dr. W. V. Bhagwat ; *vet. sci. & animal husb.*, C. N. Kelkar.

**ADMISSION.** Students who have passed the higher sec. or pre-univ. exam. of any Indian univ. or statutory bd. or any other equivalent exam. are eligible for admission to the 3-yr. degree course in arts, comm. or sci. Those who have

passed the inter. exam. are admitted to the 2nd yr. of the 3-yr. degree course in arts, comm. or sci. The following are eligible for admission to professl. courses—*engin.* : those who have passed inter. sci. with chem., maths. and phys. or the 1st-yr. sci. course of the 3-yr. degree course in the same subjs. ; *med. and vet. sci.* : those who have passed inter. sci. with bot., chem. and phys. or the 1st-yr. sci. course of the 3-yr. degree course in the same subjs. ; *agric.* : those who have passed inter. sci. (agric.).

**FIRST DEGREES.** BA, BSc, BCom (3 yrs.) ; MB BS (5 yrs.) ; BSc(Agri) (2 yrs.) ; BSc(Engg) (4 yrs. after inter.) ; BVSc (4 yrs.) ; BPE (phys. educn.) (3 yrs.).

**HIGHER DEGREES.** BEd, BEd(Basic), MEd, 1 yr. each ; MA, MSc, MCom, LLB, LL.M, MD, MS, MSc(Agri), 2 yrs. each.

**DIPLOMAS.** 1 yr. postgrad. : DCH, TDD, DOMS, DMRE, DGO ; library sci.

**PRIVATE CANDIDATES.** Non-collegiate women candidates who reside within the territorial jurisdiction of the univ. and teachers or librarians of recognized educnl. instns. within the jurisdiction of the univ. may appear privately for the exams. of BA, BCom, MA, MCom and MSc (maths.). Law teachers of colls. affiliated to the univ. may appear for LL.M exams.

**MEDIUM OF EXAM.** English and Hindi.

**PUBLICATION.** *The Vikram* (quarterly res. journal) ; *Prospectus* and *Syllabus* for each fac.



# VISVA-BHARATI

Established 1921 ; incorporated as a Central University, 1951

*Postal Address* : P.O. Santiniketan, District Birbhum, West Bengal, India

*Cables and Telegrams* : Visvabharati, Santiniketan

*Telephones* : Bolpur 21 and 22

VISITOR—THE PRESIDENT OF THE REPUBLIC OF INDIA (*ex officio*)

RECTOR—H.E. THE GOVERNOR OF WEST BENGAL (*ex officio*)

CHANCELLOR—J. NEHRU, MA LLD *Camb.*, Prime Minister of the Republic of India

VICE-CHANCELLOR—S. R. DAS, MA

HON. TREASURER—D. N. MITRA

REGISTRAR—S. C. CHAKRAVARTY, MSc LLB *Calc.*

LIBRARIAN—B. K. DATTA, MA DipLib *Calc.*

## TEACHING STAFF

### Arabic, Persian and Islamic Studies

Roy, N. B., MA Reader

### Arts and Crafts

Dev Burman, D. K. Reader

Baij, R. Lectr.

Bose, B. Lectr.

Bagchi, R. Lectr.

Perumal, A. Lectr.

Sinha, Beohar R. M. Lectr.

### Bengali and other Modern Indian Languages

Sen, P. C., MA Prof.

Ghoshal, S. N., MA DPhil *Calc. & Alld.* (on leave) Reader

Goswami, N. V. Lectr.

Das, U. K., MA Lectr.

Raha, A. V., MA Lectr.

Gupta, B. B., MA Lectr.

Ghosh, Miss Nalini, MA Lectr.

Bandyopadhyaya, S. N., MA *Calc.* Lectr.

Mukherjee, S., MA *Calc.* Lectr.

Roy, S. N., MA Lectr.

### Chinese and Japanese

Tan Yun-Shan Prof.

Wei Kwei-Sun, PhD Lectr.

Kasugai, S. Lectr.

Tagore, A., BCom *Calc.*, Shoo-Shih *Natnl.* Lectr.

*Peking* Lectr.

Mukherji, S. K. Lectr.

### Economics and Politics

Mukerji, K., MA DPhil *Calc.* Prof.

Das Gupta, S., MA Lectr.

Saha, S., MA Lectr.

Majumdar, A., MA Lectr.

Sinha Roy, M., MA Lectr.

Gupta, A. K., MA Lectr.

### Education

Sarkar, S. C., MA BT Reader

Chatterjee, N. C., MA BT Lectr.

Rai, J. G., BT MED *Patna* Lectr.

Das Gupta, N. K., MSc *Calc.* Lectr.

Chakrabarty, P., MA BT *Calc.* Lectr.

De, J.-K., MA BT *Calc.* Lectr.

### English and other Modern European Languages

Bhattacharji, M. M., MA PhD *Calc.* Prof.

Ghose, S. K., MA DPhil *Calc.* Reader

McCutchion, D., BA *Camb.* Lectr.

Datta, H. N., MA Lectr.

Sen, M. K., MA Lectr.

Roy, Mrs. Asha, MA Lectr.

Chatterji, S., MA *Calc.* Lectr.

De, N., MA *Calc.* Lectr.

Hacker, H. Lectr.

### Hindi

Tomar, R. S., MA DPhil *Alld.* Prof.

Bajpai, M., MA LLB Lectr.

Tiwari, R., MA Lectr.

Shiva Nath, MA DPhil *Calc.* Lectr.

Biswas, Miss Kanika, MA PhD *Ban.* Lectr.

### History

Chatterjee, S., MA PhD Prof.

Ray, S. C., MA Lectr.

Mitra, A. K. MA Lectr.

Bose, S. K., MA  
 Ghose, Miss Uma, MA  
 Sarkar, K. K.  
 Banerjee, H. K., MA  
 Lahiri, A., MA  
 Goswami, N. P., MA

Lectr.  
 Lectr.  
 (on leave) Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

Ray, B. G., MA  
 Venkataramanan, K., MA  
 Sen Gupta, S. C., MA PhD Lond.  
 Chakravartty, S. C., MA Dacca  
 Roy, P. K., MA  
 Bhattacharya, C. R., MA

Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Indo-Tibetan Studies

Aryaswamy, N., Sastri Siromani  
 Chhimed, R.  
 Pathak, S. K., MA

Reader  
 (on leave) Lectr.  
 Lectr.

### Mathematics

Acharya, S. C., MA Calc.  
 Ghosh, P. K., MA

Lectr.  
 (on leave) Lectr.

### Music, Classical, see also Rabindra Music

Wazalwar, V. V.  
 Bhanja Chaudhuri, S. K., BA

Lectr.  
 Lectr.

### Oriya

Das, K., MA PhD  
 Pattanayak, D. P., MA  
 Acharya, B. C., MA  
 Misra, N. N., MA

Reader  
 (on leave) Lectr.  
 Lectr.  
 Lectr.

### Persian, see Arabic

### Philosophy and Religion

Bhattacharya, K., MA PhD Calc.

Prof.

### Politics, see Econ. and Pol.

### Rabindra Music and Dance

Majumder, S. R., MSc LLB Calc.  
 Nair, P. H.

Reader  
 Reader  
 Lectr.

### Sanskrit, Pali and Prakrit

Bhattacharya, S., MA PhD Lond.,  
 DLitt Lille  
 Mitra, H., MA  
 Bhattacharya, S., Sastri  
 Chakravarti, N., MA  
 Banerji, B., MA PhD  
 Mallik, M., MA  
 Pantul, M. M., MA  
 Chatterji, K., MA

Prof.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Science (including Geography)

Das Gupta, P. C., MSc Calc.  
 Bhattacharya, D., BA  
 Sanyal, J., MSc Calc.  
 Mitra, A. K., MA

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar : B. Basu, MA. Accts. Officer :  
 S. C. Das, MA. Curator, Rabindra-Sadana : K.  
 Roy, MA Calc. Proctor : R. S. Tomar, MA  
 DPhil. Asst. Lectr., Phys. Educn. : Lt. S. N.  
 Choudhury, BSc. Med. Officer : S. C. Muk-

herjee. Dir., Rural Reconstruction Dept. : D.  
 Roy. Dir., Publications Dept. : P. B. Sen, MA  
 Calc. Editor, *Visva-Bharati Quarterly* : K. Roy,  
 MA Calc. Dir., Agro. Econ. Res. Centre : G. C.  
 Mandal, MA DPhil Calc.

## CONSTITUENT INSTITUTIONS

CHEENA-BHAVANA (inst. of Sino-Indian studies and res.). Seeks to revive the old cultural links between India and China. Sinol. and Japanese studies form the main work of this section. It provides a 2-yr. course for a cert. of proficiency in Chinese, followed by a further 1-yr. dipl. course in the same lang. The courses are open to students of postgrad. and undergrad. classes of Visva-Bharati, students preparing for the foreign and defence services, or any other person recommended by the principal of a constituent coll. of Visva-Bharati.

HINDI-BHAVANA (inst. of Hindi studies and res.). Organizes teaching of Hindi in the other constituent instns., in addn. to undertaking original res. in Hindi lang. and lit.

KALA-BHAVANA (coll. of fine arts and crafts). Owes its inspiration to the artistic renaissance in Bengal under the guiding spirit of Acharya

Abanindranath Tagore and Dr. Nandalal Bose. Trg. is provided for (1) 2-yr. cert. course in artistic handicrafts; and (2) post-matric. 4-yr. dipl. course in fine arts and crafts. Subjs. : drawing, painting, modelling, sculpture, etching, wood- and linocut, fresco-painting and design-drawing, embroidery, batique and artistic leather-work. Museum, library and exhibition hall.

PALLI-SAMGATHANA VIBHAGA (rural reconstruction dept.) at Sriniketan is concerned mainly with study of problems of rural life in its social, cultural, economic and other aspects, and with extension work in villages on the basis of such study. The Cottage Industry Trg. Centre provides 2-yr. cert. course followed by a further 1-yr. dipl. course in carpentry and weaving. An Inst. for Rural Higher Educn., sponsored by the govt. of India Council of Rural Higher Educn., provides 3-yr. dipl. course (rural services) and 2-yr.

cert. course (agric. sci.); min. qualif. for admission is sr. sch. cert. Palli-Samgathana Vibhaga also conducts the Basic Teachers' Trg. Sch. (Siksha-Charcha), providing instructn. in both the theory & practice of basic educn. and vacation courses, seminars and conferences, exhibitions, literary and advisory services (sch. visits), field researches.

**PATHA-BHAVANA** (school section) provides instructn. for 11-yr. higher (corresponding to higher sec. exam.) sch. cert. Medium of instructn.: Bengali.

**SANGITA-BHAVANA** (coll. of music and dance). Gives trg. in Indian music, classical and modern, vocal as well as instrumental. A systematic study is made of northern (Manipuri) and southern (Kathakali) styles of dance. Sp. facilities for study of songs of Rabindranath Tagore. Provides post-matric. 4-yr. dipl. course in music and dance.

**SIKSHA-BHAVANA** (coll. of undergrad. studies) provides 1-yr. preparatory course followed by further 3-yr. degree course (BA hons.) in arts subjs. Subjs. offered: Bengali, Hindi, Oriya, Sanskrit, Engl., hist., econ. and philos. Also provides 2-yr. cert. course (for postgrad. and undergrad. students) in Indian and foreign langs. (Sansk., Bengali, Hindi, Oriya, French, German, Engl., Chinese, Japanese and Tibetan); followed

by further 1-yr. dipl. course in the same langs. Tutorial help, emphasis on social, cultural, literary and other extra-curricular activities are some of the distinguishing features of the coll.

**VIDYA-BHAVANA** (coll. of postgrad. studies and res.) provides instructn. for degrees of MA, PhD and DLitt. MA course is 2 yrs. and subjs. offered are: mod. Indian langs. (Bengali, Hindi, Oriya), anc. Indian hist. & culture, Sanskrit, econ., Engl. and philos. The coll. is mainly concerned with Indol. studies in Vedic, Puranic, Buddhist, Jain, Zoroastrian and Islamic cultures and in major langs. and lits. of India. Degree course for PhD (2 yrs.) in any subject in which instructn. is provided; also the higher res. degree DLitt on published work of outstanding merit. Hons. grads. of recog. univs. are ordinarily admitted to the MA course. Pass grads. of recog. univs. are also exceptionally admitted on passing an admission test. MA courses consist of lectures, seminar work, as well as trg. in the methodology of higher studies and res.

**VINAYA-BHAVANA** (teachers' training college) provides instructn. for BEd (1 yr. postgrad.). A sp. feature is the trg. given in crafts and other creative activities in addn. to theoretical subjects.

## GENERAL INFORMATION

Visva-Bharati grew out of Santiniketan Asrama, a retreat founded in 1863 by Maharshi Devendranath Tagore. In 1901 an experimental sch. was started at Santiniketan by Rabindranath Tagore, and since 1921 Santiniketan has been the seat of Visva-Bharati, which was incorporated as a univ. by Act XXIX (1951) of the Indian parliament. Visva-Bharati is an all-India instn. with students and teachers drawn from all over India, with a proportion of teachers, students and visitors from abroad. Univ. area occupies over 11 sq. mls.

The aims of the univ. are to study the mind of man in its realization of different aspects of truth from diverse points of view; to bring into closer relationship with one another, through study and research, the different cultures of the East on the basis of their underlying unity; to approach the West from the standpoint of such a unity of the life and thought of Asia; to seek to realize in a common fellowship of study the meeting of the East and the West, and thus ultimately to strengthen the fundamental conditions of world peace through the establishment of free communication of ideas between the two hemispheres; and with such ideals in view, to provide at Santiniketan a centre of culture where res. into and study of the religion, lit., hist., sci. and art of Hindu, Buddhist, Jain, Islamic, Sikh, Christian and other civilizations may be pursued along with the culture of the West, with that simplicity in externals which is necessary for true spiritual

realization, in amity, good fellowship and co-operation between the thinkers and scholars of both eastern and western countries, free from all antagonisms of race, nationality, creed or caste.

A scheme of agro-economic res. is being conducted at the univ. under the auspices of the Ministry of Food and Agric., govt. of India. The scheme has under its purview a considerable area consisting of West Bengal, Bihar, Orissa and Assam.

The Social Education Organizers' Trg. Centre, sponsored under the community project scheme, provides for trg. of 160 organizers from the states of the Indian union every yr. and has a twofold curriculum, theoretical and practical.

**CONSTITUTION.** *Samsad* (court), supreme governing body of univ.; *Karma-Samiti* (executive council), univ. executive body; *Siksha-Samiti* (academic council), which deals with academic matters only.

**INCOME** (1958-59). Total income: Rs. 3,923,089 (govt. grants, 53.6 per cent.; fees, 6.1 per cent.; other sources, 40.3 per cent.).

**LIBRARY.** Central libr. and sectional libr. attached to colls.: over 175,000 vols. plus MSS. and journals. MSS. section: over 75,000 MSS. in Bengali, Persian, Oriya and Sansk. Cheena-Bhavana libr.: more than 100,000 fascicles bound in 35,133 combined vols. of important Chinese books. A complete set of the Tibetan *Tripitaka* consisting of 317 bundles of Kylography.

**MUSEUM.** Rabindra-Sadana. Material relating to Rabindranath Tagore: MSS. of 102 of his published works in Bengali, more than 1600 of his paintings, letters addressed to him by his contemporaries, and personal effects. Literature on Tagore and his works. AGRICULTURAL FARM attached to rural reconstrucn. dept.

**MEDICAL FACILITIES.** Pearson Memorial Hosp. managed by the univ. has 3 full-time med. officers as well as part-time eye specialist, dental surgeon. Outdoor and indoor treatment, clin. lab. and X-ray apparatus. Quarantine annexe. Leprosy clin. at Santiniketan.

**FIRST DEGREE.** Post-higher secondary: 3 yrs. —BA hons. (in Bengali, econ., Engl., Hindi, hist., Oriya, philos., Sanskrit).

**HIGHER DEGREES.** 1 yr.—BEd; 2 yrs. after BA hons.—MA (in Bengali, Engl., Hindi, anc. Indian hist. & culture, econ., Oriya, philos., Sanskrit); 2 yrs. res. after MA—PhD, D.Litt.

**DIPLOMAS.** Fine arts & crafts—4 yrs.; music & dance—4 yrs.; (lang. courses in) Sansk., Bengali, Hindi, Oriya, Engl., Japanese, Chinese, Tibetan, French, German—3 yrs.; woodwork, weaving—3 yrs.

**CERTIFICATES.** Artistic handicrafts—2 yrs.; (lang. courses in) Sansk., Bengali, Hindi, Oriya, Engl., Japanese, Chinese, Tibetan, French, German—2 yrs.; woodwork, weaving—2 yrs.

**AWARDS.** Merit scholps., value Rs. 60 & Rs. 75 p.m., awarded to students admitted to BA hons. and MA courses respectively. Also no. of free studentships and half-free studentships.

**RESIDENCE.** Students live a communal life, all colls. and insts. being co-educnl. and residential. Men have separate hostels attached to various dept., while women have a common hostel (Sree

Sadana). Staff quarters at Santiniketan, Sriniketan and Vinaya Palli.

**OVERSEAS AND FOREIGN SCHOLARS** are admitted to the colls. and courses of study both as regular and as casual students. Scholars from all countries share the same community life and participate in all cultural, creative and constructive activities. Entrance requirements, etc., available from registrar.

**STUDY LEAVE** is granted to all members of staff, each applicn. being decided on its merits.

**FEES.** Annual fees: Rs. 300, inclusive of tuition, med. help, sports, library, and hostel accomm. Refectory charges: Rs. 50 p.m., during term only. Admission fee: about Rs. 25.

**ACADEMIC YEAR.** July to April. Term dates (approx.): July 1–Sept. 21; Nov. 2–Dec. 20; Jan. 4–April 30.

**LANGUAGE OF INSTRUCTION** is English, except in Patha-Bhavana (sch. section), where Bengali is used.

**PUBLICATIONS.** The univ.'s publicn. dept. (Granthana-Vibhaga) has its H.Q. in Calcutta. This dept. owns the copyright of the Bengali works of Rabindranath Tagore. Its publicns. may be classified as follows: (i) writings of Rabindranath Tagore; (ii) series of books for folk educn.; (iii) series of general knowledge books; (iv) res. publicns. under auspices of Vidya-Bhavana res. dept., incl. *Visva-Bharati Studies* and *Visva-Bharati Annals*; (v) school text-books; (vi) univ. *Calendar*, *Annual Report*, *Bulletins*, *Pamphlets*, *Visva-Bharati News*. Cultural organs: *Visva-Bharati Quarterly* and *Visva-Bharati News* in English, *Visva-Bharati Patrika* in Bengali.

**UNIVERSITY PRESS.** Univ. press at Santiniketan prints various publicns. under the imprimatur of Visva-Bharati.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: 10 staff quarters. *Approaching completion*: extension to agro-econ. res. bldg.; Pearson Memorial Hosp.; social educn. organizers' trg. centre; hobby workshop for Patha & Siksha Bhavana students.

### Statistics

**STUDENT NUMBERS, 1959–60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	331	—
Women . . .	226	—
Total . . .	557	—

**Distribution.** 1A, 75; ISc, 47; BA, 64; MA, 95; PhD, 26; lang. & casual students, 15; BT,

65; fine arts & crafts, 82; music & dancing, 51; dipl. in woodwork, 24; dipl. in weaving, 13. Total: 557.

*Included in the figures above are:—*

Intermediate students, 122.

Postgraduate students, 186.

New admissions, 282.

Students from other countries, 26. (Countries from which largest numbers came: Ceylon, 14; China, 4).

**DEGREES AWARDED (1959).** BA (pass), 8; BA (hons.), 12; BEd, 61; MA, 25; PhD, 5.

**DIPLOMAS AWARDED (1959).** Music, 10; fine arts & crafts, 26; weaving, 2; woodwork, 2; langs., 10.

**CERTIFICATES AWARDED (1959).** Arts & crafts, 12; weaving, 2; langs., 10; 1A, 27; ISc, 16.



# **MALAYA AND SINGAPORE**

**University of Malaya (p. 608)**

**University of Malaya in Singapore (p. 609)**

**University of Malaya in Kuala Lumpur (p. 614)**

# UNIVERSITY OF MALAYA\*

Founded 1949

*Postal Address* : c/o University of Malaya in Kuala Lumpur, Pantai Valley, Kuala Lumpur, Malaya

*Cables and Telegrams* : Univsel, Kuala Lumpur

*Telephone* : Kuala Lumpur 84030

CHANCELLOR—Rt. Hon. M. MACDONALD, MA *Oxon.*, Hon. LLD *H.K.*, Hon. DLitt

PRO-CHANCELLORS—SIR HAN HOE LIM, CBE, MB ChB *Edin.*, LLD; YANG TERAMAT MULIA TUNKU YA'ACOB, CMG, MA Hon. LL.D; R. L. EBER, BA *Camb.*

CHAIRMAN OF CENTRAL COUNCIL (alternately)—TUAN HAJI MUSTAPHA ALBAKRI; TAY TECK ENG, OBE, LDS Hon. LLD

VICE-CHANCELLOR—A. OPPENHEIM, OBE, MA DSc *Oxon.*, PhD *Chic.*

CENTRAL SECRETARY—TEH TUCK SOON, DipSc

## DIVISIONS OF THE UNIVERSITY

UNIVERSITY OF MALAYA IN SINGAPORE : *see p. 609.*

UNIVERSITY OF MALAYA IN KUALA LUMPUR : *see p. 614.*

## GENERAL INFORMATION

The univ. was founded on Oct. 8, 1949, by ordinances enacted in the Fed. of Malaya and the Colony of Singapore. It was formed by the fusion of 2 existing colls. of higher educn. in Singapore, the King Edward VII Coll. of Med. (founded 1905) and Raffles Coll. (founded 1929). Full univ. teaching began in session 1949-50 on the Singapore sites. In 1954 a decision was taken to start univ. teaching in the Federation. A site at the Pantai Valley nr. Kuala Lumpur was acquired and 1st-yr. teaching in all arts subjs. began in Sept. 1957 in accomm. temporarily made available in the Govt. Tech. Coll., Gurney Rd. This was, however, discontinued in the session 1958-59. In July 1958 the entire dept. of engin. was transferred to the Pantai Valley site.

As a result of proposals emanating from the univ., the govts. of the Fed. of Malaya and of the Colony of Singapore set up in 1957 a commission 'to review the constitution, working and finances of the univ. in the light of the experience and rapid expansion of the last 7 yrs. and of the prospective expansion in the near future, including the plan for developing the univ. in Kuala Lumpur, and to make recommendations'. The commission, headed by Dr. R. S. Aitken, vice-chancellor of the Univ. of Birmingham, arrived in Aug. 1957 and its report was publ. in Nov. the same yr. As a result of this report the govts. apptd. jointly a cttee. to draft a constitution for the univ. which would take into account the

proposals aiming at creating 2 divisions of equal status, 1 in each territory, with the univ. as the supreme governing body of the 2 divs. Ordinances to give effect to these proposals were enacted in Nov. 1958 and came into force on Jan. 15, 1959.

**CONSTITUTION.** The amended constitution provides for the continuance of the Univ. of Malaya as a single univ., with a chancellor, a vice-chancellor, a central council, a court and a guild of grads., and for the establ. of 2 divs.—the Univ. of Malaya in Singapore and the Univ. of Malaya in Kuala Lumpur—each with its own principal, its own divisional council and divisional senate. The 2 divs. are equally represented on the central council. The central council and vice-chancellor are assisted by a central secretariat.

The univ. has power, amongst other things, to award degrees, to ensure the maintenance of academic standards, to regulate conditions of service of staff in the univ. and the divs. and to negotiate with the govts. on matters of finance.

The divisions make all appts. of teachers and control matters relating to univ. teaching and admission to courses of study.

**FINANCE.** On the recommendations of a jt. finance cttee. apptd. by the govts. of the Fed. of Malaya and Singapore, grants for annually recurrent costs of the univ. and the 2 divs. for the triennial period 1959-61 will be made jtly. by the

\* Member of the Association of Universities of the British Commonwealth

Fed. and Singapore govts. in the ratio of 2 : 1. After the triennium it is anticipated that each govt. will, with certain exceptions, be responsible for contributing to the annually recurrent costs of the div. in its territory. Capital grants during the triennium will be made by the 2 govts. on an equal basis.

INCOME (July 1, 1958 to Dec. 31, 1958). £537,136 approx. (govt. grants, 83.9 per cent.; tuition & other fees, 11.1 per cent.; rents, 2.5 per cent.; clin. fees, 1.7 per cent.; investment income,

0.3 per cent.; misc., 0.5 per cent.). With effect from Jan. 1, 1959, the financial yr. has been changed to Jan. 1 to Dec. 31.

GEOGRAPHICAL LOCATION. The offices of the univ. are located in the bldgs. of the Kuala Lumpur div. in the Pantai Valley.

ADMISSION, DEGREES AND DIPLOMAS. *See under entries for the divisions, below.*

PUBLICATIONS. *Calendar* (May 1959); *Annual Report* (June 1959); *Gazette* (Oct. 1959).

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *In course of constrn.* (IN SINGAPORE): phase II, sci. bldg. *Bldgs. completed* (IN KUALA LUMPUR): sci. bldg.; agric. bldg.; arts bldg.; 1st & 2nd residential colls.; 18 staff quarters.

NEW FACULTY. Law.

NEW DEPARTMENTS AND CHAIRS. Dept. of pharmacol. Asia Foundation chair of constit. law.

RETIREMENTS. A. F. Caldwell (pharm.).

RESIGNATIONS. B. H. Livett (physiol.); Dr. G. C. Whittow (physiol.); Dr. Sylvia Hoe (surg.); Dr. D. Hangchi (anat.); Dr. T. W. Roddie (obstet. & gynæcol.); Dr. P. Wheatley (geog.); Dr. Loke Kwok Kheong (anat.); A. J. Loveday (asst. librarian); Dr. Chang Hsin-chang (Engl.); Mrs. Chang Ting Nien-Chuang (educn.); Prof. B. D. H. Miller (Engl.); Dr. Lee Wee Kit (pathol.); N. C. Siew (econ.).

HONORARY DEGREES. *DSc*—Dr. J. W. Field. *LLD*—Dr. Haji Megat Khas bin Megat Omar. *MD*—Dr. K. Vellasamy. *DLitt*—Tuan Haji Zainal Abidin bin Ahmad.

## Statistics

### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men .	1434	
Women .	489	
Total	1923	

Distribution by Faculties, etc. *Arts*, 715; *dent.*, 99; *educn.*, 87; *engin.*, 129; *law*, 147; *med.*, 470; *pharm.*, 27; *sci.*, 249. Total: 1923.

*Included in the figures above are :—*

Postgraduate students, 72.

New admissions, 685.

Students from other countries, 37.

DEGREES AWARDED (1958-59). *Arts*, 246; *sci.*, 70; *med.*, 39; *engin.*, 8; *dent.*, 15; *pharm.*, 2.

DIPLOMAS AWARDED (1958-59). *Educn.*, 46; *soc. studies*, 22; *pub. health*, 4; *pharm.*, 1.

[*Information compiled as at 1/6/60*]

## UNIVERSITY OF MALAYA IN SINGAPORE

Established 1959

*Postal Address*: Cluny Road, Singapore 10

*Cables and Telegrams*: Univmalaya, Singapore

*Telephone*: Singapore 2815

CHAIRMAN OF DIVISIONAL COUNCIL—TAY TECK ENG, OBE, LDS Hon. LLD

PRINCIPAL—.....

REGISTRAR—H. D. LEWIS, DipArts

BURSAR—R. QUAHE, BCom Lond.

LIBRARIAN—.....



## TEACHING STAFF

[†=Part-Time]

**Anæsthesia**, see Medicine, below**Anatomy**, see Medicine, below**Art**, see Hist. of Art**Bacteriology**, see Medicine, below**Biochemistry**, see Medicine, below**Botany**

Gilliland, H. B., BSc <i>Edin.</i> , DSc <i>Rand.</i>	
FLS	Prof.
Johnson, Mrs. Anne, BSc PhD <i>Lond.</i>	Lectr.
Jong, K., BSc <i>Rand</i>	Lectr.
Smith, Mrs. M., BSc PhD <i>Durh.</i>	Lectr.
Pedoe, Mrs. B. M.	Lectr.
Lim, Gloria, MSc DipEd	Asst. Lectr.

**Chemistry**

Kiang, A. K., BSc <i>Lond.</i> , PhD <i>Camb.</i> , DipSc, FRIC	Prof.
Svasti, M. C. K., IngTICM <i>Brussels</i> , MSc	Lectr.
Ang, K. P., MSc PhD	Lectr.
Tong, Mrs. Hee Keong, MSc	Lectr.
Lee, H. H., BS <i>Ill.</i> , PhD <i>M.I.T.</i>	Lectr.
Huang, H. H., MSc DPhil	Asst. Lectr.

**Chinese Language and Literature**

.....	Prof.
Ho, K. C., LicScNat <i>Aurora</i>	
Sr. Lectr., Actg. Hd. of Dept.	
Chao Tai	Lectr.
Lee, T. H., MA	Asst. Lectr.

**Dentistry**

Tickle, R. J. S., BDS <i>Syd.</i> , DDS MScD Tor., Hon. FDSRCS	(D. Surg.) Prof.
Oehlers, F. A. C., LDS, FDSRCS	Sr. Lectr.
Jansen, J. A., MScD <i>Tor.</i> , LDS	Sr. Lectr.
Ollivere, J. D. F., BDS <i>N.U.I.</i>	Lectr.
Lee, E. C., MDS	Lectr.
Goh, S. W., LDS	Lectr.
Cheah, C. K., BDS, FDSRCS	Lectr.
Tay, E. M. H., BDS	Lectr.
Lee, K. W., MDS, FDSRCS	Lectr.
Lam, R. V., BDS	Lectr.
Lee, S. K., BDS	Asst. Lectr.
Yeoh, Mrs. S. A., BDS	Asst. Lectr.

**Economics**

Lim, T. B., BA <i>Lond.</i> , MA <i>Camb.</i> , PhD <i>Lond.</i> , DipArts	Prof.
You, P. S., BSc(Econ) PhD <i>Lond.</i>	Reader
Gamba, C., MA DLitt <i>W.Aust.</i>	Lectr.
Gilani, S. J., MA <i>Bom.</i> , PhD <i>Lond.</i>	Lectr.
Chou, K. R., BA PhD <i>Lond.</i>	Lectr.

**Education**

Green, T. L., BSc MA	Prof.
Tai, C. H., BA <i>Peking</i> , MA EdD <i>Col.</i>	Lectr.
Wong, Ruth H. K., BA <i>Belf.</i> , DipArts	Lectr.
de Cruz, R. M., BA DipEd	Asst. Lectr.
Geh, Mrs. S. T., BA DipEd	Asst. Lectr.
Liok, Grace, BSc DipEd	Asst. Lectr.

**English**

Enright, D. J., MA <i>Camb.</i> , DLitt <i>Alexandria</i>	Prof.
de Chickera, E. B., BLitt <i>Oxon.</i> , BA <i>Lond.</i>	Lectr.
Painter, A. B., MA <i>Camb.</i>	Lectr.
Baker, M., BA <i>Lond.</i> , DipArts	Lectr.
Huang, R., MA <i>Conn.</i> , PhD <i>Northwestern</i>	Lectr.
Francis, C. J., MA PhD <i>Manc.</i>	Lectr.
Salgado, R. G. N., BA PhD <i>Nott.</i>	Asst. Lectr.

**Geography**

Wikramatileke, W. A. R., BA <i>Ceyl.</i> , MA <i>Clark</i> , PhD <i>Lond.</i>	Prof.
Dale, W. L., MBE, MSc <i>Lond.</i>	Lectr.
Ooi, J. B., DPhil <i>Oxon.</i> , MA	Lectr.
Lee, Y. L., MA	Lectr.
Sandhu, K. S., BA	Asst. Lectr.
Nossin, J. J., MSc <i>Amst.</i> , ScD <i>Ley.</i>	Asst. Lectr.
Bellet, J.	†Lectr.

**History**

Tregonning, K. G., BA <i>Adel.</i> , BLitt <i>Oxon.</i> , PhD	Prof.
Bassett, D. K., BA <i>Wales</i> , PhD <i>Lond.</i>	Lectr.
Thio, Eunice, MA <i>Harv.</i> , PhD <i>Lond.</i> , BA	Lectr.
Singhal, D. P., MA <i>Panj.</i> , PhD <i>Lond.</i>	Lectr.
Wong, L. K., MA	Asst. Lectr.

**History of Art**

Lectr

**Law**

Sheridan, L. A., LLB <i>Lond.</i> , PhD <i>Belf.</i>	Prof.
Groves, H. E.	
(Constit. Law) Asia Foundation	Prof.
Chua, B. L., MA LLB <i>Camb.</i>	Lectr.
Davies, W. E. D., LLB <i>Wales</i>	Lectr.
Tan, C. Y., LLB <i>Brist.</i>	Asst. Lectr.
Brown, B. J., LLB	Asst. Lectr.
Coomaraswamy, P., LLB	†Teaching Asst.
Marshall, D. S., LLB	†Teaching Asst.
Tan Boon Teik, LLM	†Teaching Asst.
Wee, H. L., LLB	†Teaching Asst.
Baker, W. B., MA	†Teaching Asst.
Barker, E. W., BA LLB	†Teaching Asst.
Chan, K. C., LLB	†Teaching Asst.
Elias, S. H. D., BCL MA	†Teaching Asst.
Goh Heng Leong, LLB	†Teaching Asst.
Hill, G. S., MA	†Teaching Asst.
Jeyaretnam, J. B., LLB	†Teaching Asst.
Schubert, Mrs. C., BA DipEd	†Teaching Asst.
Vaithinathan, N., MA LLB	†Teaching Asst.

**Mathematics**

Pedoe, D., BSc Lond., BA PhD Camb.	
	(Maths.) Prof.
.....	(Appl. M.) Prof.
Guy, R. K., MA Camb., DipEd Birm.	Sr. Lectr.
Diananda, P. H., BSc Lond., MA	
PhD Camb.	Reader
Guha, U. C., MSc Calc., PhD Lond.	Lectr.
Milner, E. C., MSc Lond.	Lectr.
Wicks, M. J., MSc Brist.	Lectr.
Brody, E. J., BS Calif., PhD Prin.	Lectr.
Lancaster, P., MSc Liv.	Lectr.

**Pharmaceutics**

Elliott, T. H., BSc Rand, PhD	Prof.
Robertson, J. S.	Lectr.
Wan, S. C., BPharm Nott.	Lectr.
Hanam, J., BPharm Lond., DipPharm	Lectr.
Tao, Mrs. Chuen Chi, BPharm Lond.	Lectr.
Natarajan, P. N., MPharm Ban., DrRerNat	
	Asst. Lectr.

**Philosophy**

Hartland-Swann, J. J., BA PhD Lond.,	
BLitt Oxon., FRSL	Sr. Lectr., Hd. of Dept.
Rankin, K. W., MA PhD Edin.	Lectr.
Khan, R. F., MA Bom., PhD Lond.	Lectr.
Cioffi, F., BA Oxon.	Lectr.
Ho, W. M., MA	Asst. Lectr.

**Physics**

Gatha, K. M., BSc Ban., MS Pitt.,	
PhD Calif.	Prof.
Hon, Y. S., BSc Lond., MSc	Sr. Lectr.
Ho, P. Y., MSc	Lectr.
Rajaratnam, A., PhD Lond., MSc	Lectr.
Lim, Y. K., MSc PhD Melb.	Lectr.
Chong, A. Y. J., MSc	Lectr.
Huq, M., BSc Dacca, PhD Birm.	Lectr.
Sen, K. K., MSc DPhil Calc.	Lectr.
Rankin, Mrs. D. J., MA	†Teacher

**Social Studies**

Robertson, Jean, MA Glas.	
	Sr. Lectr., Hd. of Dept.
Wells, A. F., BSc(Econ) Lond.	Lectr.
Wee, Mrs. Ann, BSc(Econ) Lond.	Lectr.
Fox, W. G.	Lectr.
Gray, Jean, BSc	Lectr.

**Zoology**

Purchon, R. D., BSc PhD Brist., FLS	Prof.
Chuang, S. H., BSc Amoy, MSc Brist., PhD	Lectr.
Johnson, D. S., MA Camb., PhD Lond.	Lectr.
Sharma, R. E., BSc Edin.	Lectr.
Fernando, C. H., BSc DPhil	Lectr.
Murphy, D. H., BSc	Lectr.

**MEDICINE****Anæsthetics**

D'Bras, B. E. G., MB BS, FFARCS	†Lectr.
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**Anatomy**

Ellis, A. R., MB ChB N.Z.	Prof.
Thambipillai, V., DipPhysAnthrop Oxon.,	
LMS	Sr. Lectr.
Ramsbotham, Mrs. Maria	Asst. Lectr.
Patel, B., MB ChB Glas.	Asst. Lectr.
Chua, Sui-Kim, MB BS	Asst. Lectr.

**Bacteriology**

Lim, K. A., BSc MB ChB Edin.,	
DipBact Lond.	Prof.
Lee, L. H., MB BS	Lectr.
Chan, Y. C., BSc	Asst. Lectr.

**Biochemistry**

Dixon, T. F., BSc PhD Lond., FRIC	Prof.
Bowness, J. M., BSc PhD	Sr. Lectr.
McEvoy-Bowe, E., MSc N.U.I., PhD	Lectr.
Loke, K. H., PhD Edin., MSc	Lectr.
Wong, Miss H. A., BSc PhD Lond.	Asst. Lectr.

**Dermatology**

McClay, Maj. A. O., MB BCh BAO	†Lectr.
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**Medical Jurisprudence**

Shanmugaratnam, K., MD DCP PhD	†Lectr.
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**Medicine**

Ransome, G. A., FRCP	Prof.
Danaraj, T. J., MD LMS, MRCPed	Sr. Lectr.
Wong, P. K., MB BS	Lectr.
Sreenivasan, B. R., LMS, MRCP	†Lectr.
Seah, C. S., MD, MRCPed	†Lectr.
Hanam, E., MB BS, MRCPed	†Lectr.

**Medicine, Clinical**

Monteiro, E. S., DCH Lond., MD LMS,	
FRCP, FRFPGlas	Prof.
Khoo, O. T., MD LMS, FRFPGlas,	
MRCPEd	Sr. Lectr.

**Obstetrics and Gynæcology**

Lumsden, J. W. F., MB ChB	Prof.
Chong, T. K., LMS	†Lectr.
Oon, Miss C. S., LMS	†Lectr.

**Ophthalmology**

Singh, K., LMS, FRCSEd	†Lectr.
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**Oto-Rhino-Laryngology**

Seow, L. J., MB BS, FRCSEd	†Lectr.
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**Pædiatrics**

Field, Elaine, MD	†Lectr.
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**Parasitology**

.....	Prof.
Fernando, Mrs. M. A., MB BS Ceyl.	
	Asst. Lectr.

**Pathology**

Balasingham, T., OBE, LMS	Prof.
La'Brooy, E. B., MB BS	Sr. Lectr.
Muir, M. S., MB ChB <i>Glas.</i>	Lectr.
Thomas, M. A., BA MB BS <i>Madr.</i>	Lectr.
Sivanesan, S., MB BS	Asst. Lectr.
Ho, K. K., BA MB BChir <i>Camb.</i>	Asst. Lectr.

**Pharmacology**

Lin, R. C. Y., BSc <i>Peking</i> , PhD <i>Camb.</i>	Lectr.
Yeoh, T. S., MB BS	Asst. Lectr.

**Physiology**

.....	Prof.
Toh, C. C., PhD <i>Lond.</i> , DipSc	Reader
Lee, T. S., PhD DipSc	Sr. Lectr.
Kim, K. S., MD <i>Seoul</i> , MS PhD <i>Ill.</i>	Lectr.
Ng, B. C., MB BS	Asst. Lectr.
Elliot, Mrs. Annie B., BSc <i>Lond.</i>	Asst. Lectr.
Tan, Mrs. Pui Yong, BSc <i>Lond.</i>	Asst. Lectr.

**Psychological Medicine**

†Lectr.

**Social Medicine and Public Health**

Lloyd Davies, T. A., MD BS <i>Lond.</i> , FRCP	Prof.
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Danaraj, Mrs. Winifred, MPH *Harv.*,DCH *Lond.*, LMSJackson, Mrs. Jean, MSc *Melb.*, PhD

Hutchinson, W. E., OBE, ED, JP, MA

BCh BAO MD *Dub.*Polunin, I. V., DM BCh MA BSc *Oxon.*Mills, Rosemary, MA *Camb.*

Tye, C. Y., BA

Ang, Mrs. Jiak-Woon, BS MA *Mich.*

Asst. Lectr.

**Surgery**Yeoh, G. S., MA MB BChir *Camb.*, FRCS

Yong, N. K., MB BS, FRCS

Vellasamy, K., LMS

Cohen, Y., LMS, FRCS

**Surgery, Orthopædic**Karlen, A. G., MD *Sweden*Gunn, D. R., MB ChB *Edin.*, MChOrth *Liv.*,

FRCSEd

Khong, B. T., LMS

Friedman, L., MD *Stras.*, FRCS**Venereal Diseases**

†Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Health Physician : Z. N. Kadri, MD BS *Bom.*, DTM&H. Asst. Registrars : B. R. Marks, BA ; Mrs. Yee-Teh Lu Sinclair, BA *Syd.*, MA *Yale* ; K. G. Lie, BCom MA *Edin.* Admin. Assts. : V. R. Grosse ; K. K. Chan, BA ; T. S. Chan ; Y. S. Wee ; D. P. Wyatt, BA. Actg. Librarian :

Jean M. Waller, MA *Syd.*, FLA. Asst. Librarians : Isobel Andrews, MA *N.Z.* ; Mrs. Wang-Chen Hsiu Chin, LLB MA ML. Estate Officer : K. S. Cheng, BSc *H.K.* Curator, Art Museum : ..... Principal's Sec. : M. A. de Souza.

**GENERAL INFORMATION**

The Univ. of Malaya in Singapore was establd. on Jan. 15, 1959, as a division of the Univ. of Malaya. See also under Univ. of Malaya, above.

The powers of the div. include the provision of courses of instructn., the admission of students thereto and the appt. of teachers.

CONSTITUTION. The divisional council is the executive body of the div. and exercises all the powers of the div. except those which are allotted by the constitution or by statute to another authority. The membership of the divisional council is widely representative. The divisional senate is the academic body of the div. and has control of the general direction of instructn. and res. It is composed of the profs. and hds. of depts. and some non-professorial members.

The chief executive and academic officer of the div. is the principal, who is *ex officio* a member of the divisional council and chairman of the divisional senate.

FINANCE. See under Univ. of Malaya, above.

FACULTIES AND DEANS. *Arts*, Prof. T. B. Lim (econ.) ; *law*, Prof. L. A. Sheridan ; *med.*, Prof. E. S. Monteiro (clin. med.) ; *sci.*, Prof. H. B. Gilliland (bot.).

UNIVERSITY PRECINCT. The bldgs. of the 2 former colls. in Singapore are still being used, but there has been considerable devel. on these sites.

New bldgs. completed on the Raffles Coll. site include part of a large new multi-storey sci. block with associated lecture theatres ; the addn. of new wings to the Oei Tiong Ham bldg. for use of the library and admin. ; 2 new student colls. (Raffles Hall for men and Eusoff Coll. for women). At the med. coll. site a pathol. bldg., built in conjunction with the Singapore govt., has been completed. The new inst. of health was opened in 1958 and is shared by the univ.'s dept. of soc. med. & pub. health, the Singapore govt. sch.

health services and the maternity & child welfare section of the city council. King Edward VII Hall, a residential coll. mainly for med. students in their clin. yrs., was formally opened in 1957. Remodelling of the main bldgs. provided addnl. space for the library and for lecture theatres.

**GEOGRAPHICAL LOCATION.** The facs. of arts, sci. and law and the admin. offices are on the Raffles Coll. site of about 80 acres at Cluny Rd. 10, while the fac. of med. is on the former coll. of med. site, 4 miles away at Sepoy Lines 3.

**LIBRARY.** Main library (for arts, sci., law), 86,000 vols. plus Chinese collection of 130,000. Med. and dent. library (on fac. of med. site), 30,000 vols. In addition, about 30 deptl. libraries with from a few hundred to a few thousand vols.

**LABORATORIES, MUSEUMS.** Zool. field labs. at King George V natnl. park, Pahang and Raffles Light, Singapore; pub. health museum; Keith (pathol.) museum; D.S.I.R. radio res. substation (in assocn. with dept. of phys.); art museum.

**TEACHING HOSPITAL.** The main univ. teaching hosp. providing facilities for undergrad. or postgrad. teaching is the Govt. General Hosp. in Singapore; other hosps. used for teaching purposes are: Kandang Kerbau Hosp. (obstet. & gynæcol.), Woodbridge Hosp. (mental dis.), Middle Road Hosp. (V.D.) and Tan Tock Seng Hosp. (infectious dis.). Certain govt. hosps. in the Federation of Malaya are recognized as providing facilities for trg. prior to registration.

**ADMISSION.** Candidates are ordinarily required to take the Camb. oversea higher sch. cert. exam. which is regarded as the univ. entrance exam. For admission to 1st-yr. courses, candidates must have passes in the gen. paper and either 2 subjs. at principal standard or one subj. at principal standard and 2 subjs. at subsidiary standard. For sci. and engin. the subjs. must be chosen from a list. Exemption from 1st-yr. and admission to 2nd-yr. courses in sci., med., dent. and pharmacy: candidates must have full cert. with passes in the gen. paper and either 3 subjs. at principal standard or 2 at principal standard and 2 at subsidiary standard, the subjs. being chosen from a list.

Non-graduating courses are provided in the facs. of arts and sci. and admission to these is subject to the approval of the dean concerned.

**FIRST DEGREES (of Univ. of Malaya).** BA gen. and hon.—3 yrs. Gen. degree in 2 principal subjs. and 1 subsidiary subj. Hons. degree in 1 subj. chosen from Chinese, econ., Engl., geog., hist., maths., philos. BSc pass—3 yrs. from admission to 1st yr., 2 yrs. from admission to 2nd yr.; hons.—after 4th yr. Pass degree in 2 subjs., hons. degree in 1 subj., chosen from biochem., bot., chem., geog., maths., phys., physiol., zool. MB BS—6 yrs. from admission to 1st yr., 5 yrs. from admission to 2nd yr. BDS—5 yrs. from admission to 1st yr., 4 yrs. from admission to 2nd yr. LLB—4 yrs. BPharm—

4 yrs. from admission to 1st yr., 3 yrs. from admission to 2nd yr.

**HIGHER DEGREES (of Univ. of Malaya).** Open to grads., MA, MSc, LLM (1 yr.'s residence); PhD (2 yrs.' residence); open to grads. of 3 yrs.' standing—MD, MSc, MDS; open to masters or PhDs of 5 yrs.' standing—DSc, DLitt, DDSc, LL.D. Dipl. holders of the King Edward VII Coll. of Med. (LMS) and of Raffles Coll. (DipArts and DipSc) and grads. of other univs. may also be admitted to higher degrees of this univ.

**HONORARY DEGREES.** The univ. may confer any degree as an hon. degree.

**DIPLOMAS (of Univ. of Malaya).** Educn. (1 yr.), open to grads. Pub. health (1 yr.), open to med. grads. Soc. studies pt. I (2 yrs.), open to grads. and suitable non-grads.; pt. II (sp. studies) after addtnl. yr. The King Edward VII Coll. of Med., until its incorporation in the Univ. of Malaya in 1949, granted a licentiate in med. and surg. (LMS) and a licentiate in dent. surg. (LDS); Raffles Coll. granted a dipl. in arts (DipArts) and in sci. (DipSc).

**RESEARCH.** Ample facilities for res. in most depts.

**STUDY LEAVE.** Permanent staff eligible for study or alternatively sabbatical leave on full salary at the rate of 5 wks. for each yr.'s service. New scheme provides for overseas or study leave of about 6 mos. after 3 yrs.

**FEES.** Tuition, including students' union: BA, LLB and BSc courses, also dipl. courses in educn. and soc. studies, approx. £56 : 5s. p.a.; MB BS, BDS and BPharm, also dipl. course in pub. health, £66 : 15s. p.a. Higher degrees, res. fees, £17 : 10s.—£35 p.a. depending on degree; exam. fees, MA, MSc, MED, £17 : 10s.; PhD, £23 : 5s.; DLitt, DSc, MD, MS, MDS, £35.

**ACADEMIC YEAR.** May–April, 3 terms; May–July; Aug.–Oct.; Nov.–Jan.

**ADULT EDUCATION.** An active interest is taken in the adult educn. movement in Singapore, members of the univ. staff assisting in the teaching work. In conjunction with the govt. dept. of broadcasting, radio courses have been conducted from time to time.

**SCHOLARSHIPS, BURSARIES, ETC.** The Univ. of Malaya in Singapore offers annually a number of entrance scholps. on the results of the univ. entrance exam. The govts. of Singapore and the Fed. of Malaya offer bursaries to suitable candidates requiring financial aid.

**APPOINTMENTS BOARD.** A register of prospective candidates is kept and vacancies are communicated by circular.

**GRADUATES' ASSOCIATION.** The Univ. of Malaya society has now replaced the Stamford club and the King Edward VII alumni assocn. All grads. of the former colls. and of the Univ. of Malaya may be admitted to the new soc.

**STUDENT RESIDENCES.** Men: Dunearn Rd., King Edward VII Hall, Raffles Hall, Kandang Kerbau Clinical Residence. Women: Eusoff College, 10 College Rd.

**STAFF RESIDENCES.** At present approx. 165 units of housing for academic staff.

**STUDENT HEALTH SERVICE.** The univ. operates a student health service under a full-time med. officer. Med. exam. is compulsory for 1st-yr.

students and optional for others. Two dispensaries are available for routine treatment.

**STUDENTS' UNION.** The 2 divs. have separate students' unions. Each is administered by a students' council consisting of 25 to 30 students elected annually. The students' council appoints an executive cttee. and certain other standing and sp. cttees. There are socs. to cater for the social, athletic and other activities of students.

**PUBLICATIONS.** *Calendar.*

## THE YEAR 1959

[See entry for the University of Malaya, p. 609]

[Information compiled as at 15/6/60]

## UNIVERSITY OF MALAYA IN KUALA LUMPUR

Established 1959

*Postal Address:* Pantai Valley, Kuala Lumpur, Malaya

*Cables and Telegrams:* Univsel, Kuala Lumpur

*Telephone:* Kuala Lumpur 89361

**CHAIRMAN OF DIVISIONAL COUNCIL—TUAN HAJI MUSTAPHA ALBAKRI**

**PRINCIPAL—**.....

**REGISTRAR—FOO YEOW YOEK, DipArts**

**BURSAR (TEMP.)—WONG PAK CHOY**

**LIBRARIAN—W. J. PLUMBE, FLA**

## TEACHING STAFF

### Agriculture

Davies, G. M., DFC, BAgSc

DipVFM N.Z.

Kelley, R. B., OBE, DVSc Melb.

Enoch, I., BSc Wales

Joseph, K. T., BAgSc W.Aust.,

MAgrSc Adel.

Varghese, G., BSc Madr., MS Iowa

Prof.

Sr. Lectr.

Lectr.

Asst. Lectr.

Asst. Lectr.

### Botany

Poore, M. E. D., MA PhD Camb.

Carrick, J., BSc Glas.

Jong, K., BSc Rand

Merton, L. F. H., MA Camb.

Prof.

Lectr.

Lectr.

Lectr.

### Chemistry

Huang, R. L., BSc H.K., DPhil Oxon.,

DSc, FRIC

de Souza, J. B., MSc H.K., PhD Syd.

Morsingh, F., DPhil Oxon., MSc

Prof.

Lectr.

Lectr.

Lee, K. H., MA Harv., MSc

Ong, A. S. H., MSc

Asst. Lectr.

Asst. Lectr.

### Economics

.....

Ungku Abdul Aziz, DipArts, BA

Sr. Lectr., Hd. of Dept.

Sayana, V. V., MA Ban., PhD Bom.

Lim, C. Y., BA

Yip, Y. H., BA

Lectr.

Asst. Lectr.

Asst. Lectr.

### Engineering

Gray, C. A. M., BSc ME Syd.

Hu, P. Y., SB M.I.T.

Chin, F. K., MSc DipArts

Ward, G. T., BSc(Eng) PhD

Chin, T. K., BSCE Ohio, MS Iowa

Huang, H. C., BSc Nanking, PhD Lond.

Lee, M. B., BSME Purdue, MSE Mich.

Liu, C., MSc Birm.

Prof.

Visiting Prof.

Sr. Lectr.

Sr. Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Lowe, G., BE PhD N.Z.  
 Tai, K. C., BE Syd.  
 Wong, L. S., BE N.S.W.

Lectr.  
 Lectr.  
 Asst. Lectr.

### English

Le Page, R. B., BA Oxon., PhD Birm. Prof.  
 Evans, E. C., BA Wales & Oxon. Sr. Lectr.  
 Price, A. W., BA Rand, MA Lectr.  
 Fernando, L., BA Asst. Lectr.

### Geography

Ho, R., MA Lond., DipArts Prof.  
 Dale, W. L., MBE, MSc Lond. Lectr.  
 Sendut, H., MCD Liv., BA Lectr.  
 Jeyatheva, S., BSc Ceyl., MA Calif. Asst. Lectr.  
 McGee, T. C., MA N.Z. Asst. Lectr.

### Geology

Pichamuthu, C. S., DSc PhD Glas., FGS, FNI Prof.  
 Gowda, S. S., MSc Mys., FGS Lectr.  
 Hutchison, C. S., BSc Aberd., FGS Lectr.  
 Leow, J. H., BSc W.Aust., FGS Asst. Lectr.

### History

Bastin, J., MA Melb., DLitt Ley., DPhil Oxon. Prof.  
 Padover, S. K., MA PhD Chic. (American Hist.) Visiting Prof.  
 Lamb, A., MA PhD Camb. Lectr.  
 Turnbull, C. M., BA Lond. Lectr.  
 Wang, G. W., PhD Lond., MA Lectr.  
 Short, A., BSc Exe. & Lond., MA Virginia Asst. Lectr.

### Indian Studies

Rajakkannu, M., MA BOL Madr. Sr. Lectr., Hd. of Dept.  
 Palani, U., MA Madr., BOL Annam. Lectr.  
 Viswanathan, S., MA Madr. Asst. Lectr.

### Islamic Studies

Rauf, M. A., Al-Aliyah Al-Azhar, MA Camb., DipEd Hd. of Dept.  
 Hasan, S. A., MA Madr., PhD Camb. Lectr.

### Malay Studies

Roolvink, R., BA Ley., MA DLitt Utrecht Prof.  
 Mees, C. A., MA Ley., DLitt Utrecht Sr. Lectr.  
 Badawi, M. Z., Al-Aliyah Al-Alimiyah Al-Azhar Lectr.  
 Skinner, C., BA Lond., DipIOS Sch. of O. & A. Studies (Lond.) Lectr.  
 Ismail bin Hussein, BA Asst. Lectr.  
 Mohd. Taib bin Osman, BA Asst. Lectr.  
 Swift, M. G., BSc(Econ) Lond. Asst. Lectr.  
 Tjoa, S. H., MA Utrecht, MSS Inst. for Soc. Studies (The Hague) Asst. Lectr.

### Mathematics

Eliezer, C. J., MA PhD Camb., DSc Lond. Prof.  
 Hoe, J., MSc N.Z., MA DiplMathStats Camb. Asst. Lectr.  
 Toh, K. H., BSc Asst. Lectr.

### Physics

Thong, S. P., PhD Belf., BSc DipSc, FIP Prof.  
 Roy, S. K., MSc PhD Patna Sr. Lectr.  
 Teh, H. H., MSc Asst. Lectr.  
 Chow, Y. M., BSc Asst. Lectr.

### Zoology

Hendrickson, J. R., BSc Arizona, MA PhD Calif. Prof.  
 Berry, A. J., BSc PhD Lond. Lectr.  
 Rohde, K. Lectr.  
 Dhaliwal, S. S., PhD Edin., MSc Asst. Lectr.  
 Goh, Miss P. Y., BSc DipEd Asst. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrars : C. T. Lim, BA ; T. S. Teh, DipSc.\*  
 Asst. Bursar : H. T. Cheah. Admin.  
 Assts. : R. C. Daniel ; K. S. Kong.

LIBRARY STAFF. Asst. Librarians : Mrs. H. Anuar, BA, FLA ; B. Lim, BA. Library Assts. : K. M. Chan, BSc ; C. H. Ee ; B. Gopal, BA ;

H. T. Lim, BA ; W. M. Soong, BA ; D. E. K. Wijasuriya, BA Ceyl.

RESIDENTIAL COLLS. Domestic Managers : H. K. Lim ; Mrs. M. Yeow.

HON. STUDENT HEALTH PHYSICIAN. T. W. Lim, MB BS.

## GENERAL INFORMATION

The Univ. of Malaya in Kuala Lumpur was establd. on Jan. 15, 1959, as a division of the Univ. of Malaya. See also under Univ. of Malaya, above.

CONSTITUTION. The Kuala Lumpur div. is largely responsible for its own affairs and has its own council and senate.

FINANC. See under Univ. of Malaya, above.

FACULTIES AND DEANS (1959-60). Arts, Prof. J. Bastin (hist.) ; engin., Prof. C. A. M. Gray ; sci., Prof. C. J. Eliezer (maths.). Non-fac. dept. : agric., Prof. G. M. Davies, head of dept.

UNIVERSITY PRECINCT. The Univ. of Malaya in Kuala Lumpur is situated in the Pantai Valley

\* On secondment to central secretariat of univ. (see p. 608)

which is about 3 miles from the gen. post office and nr. the newly constructed fed. highway linking the fed. capital with the royal town of Klang. The main bldgs. of the univ. are on elevated ground facing a central valley which has been converted into an artificial lake. A ring road affords access to the various bldgs. : 1st residential coll., 2nd residential coll., fac. of engin., fac. of arts, library, fac. of sci., dept. of agric.

**LIBRARIES.** Main libr. (arts & sci.), about 108,000 vols. ; med. & dent. libr., about 42,000 vols. ; Chinese libr., about 120,000 vols. ; Indian studies libr., about 5000 vols.

**ADMISSION.** Candidates are ordinarily required to take the Camb. oversea higher sch. cert. exam. which is regarded as the univ. entrance exam. For admission to 1st-yr. courses, candidates must have passes in either 2 subjs. at principal standard or one subj. at principal standard and 2 subjs. at subsidiary standard. A pass in the general paper is also desirable. For sci., engin. and agric. there are sp. fac. requirements to be fulfilled. Exemption from 1st-yr. and admission to 2nd-yr. courses in sci. and agric. : candidates must have full cert. with passes in either 3 subjs. at principal standard or 2 at principal standard and 2 at subsidiary standard, the subjs. being chosen from a list. A pass in the gen. paper is also desirable.

Non-graduating courses are provided and admission is subject to the approval of the dean (or hd. of non-fac. dept.) concerned.

**FIRST DEGREES** (of Univ. of Malaya). BA gen. and hons.—3 yrs. Gen. degree in 2 principal subjs. and 1 subsidiary subj. Hons. degree in 1 subj. chosen from econ., Engl., geog., hist., Indian studies, Islamic studies, Malay studies, maths. BSc pass—3 yrs. from admission to 1st yr., 2 yrs. from admission to 2nd yr. ; hons.—after 4th yr. Pass degree in 2 subjs. ; hons. degree in 1 subj. chosen from bot., chem., geog., geol., maths., phys., zool. BE—4 yrs. BAgSc—pass degree or hons.—4 yrs.

**HIGHER DEGREES** (of Univ. of Malaya). Open to grads., MA, MSc (1 yr.'s residence) ; PhD (2 yrs.' residence) ; open to masters or PhDs of 5 yrs.' standing—DSc, DLitt. Grads. of other univs. may also be admitted to higher degrees of this univ.

**HONORARY DEGREES.** The univ. may confer any degree as an hon. degree.

**RESEARCH.** Facilities for res. available in most depts.

**STUDY LEAVE.** Permanent staff eligible for 'study' or 'oversea' leave on full salary at rate of about 6 months for every 3 yrs.' service.

**FEES.** Tuition, including students' union : BA, BSc, BE and BAgSc courses, about £56 : 5s. p.a. Higher degrees, res. fees, £17 p.a. depending on degree ; exam. fees, MA, MSc, £17 : 10s. ; PhD, £23 : 5s. ; DLitt, DSc, £35.

**ACADEMIC YEAR.** May to Jan. 3 terms : May-July ; Aug.-Oct. ; Nov.-Jan.

**SCHOLARSHIPS, BURSARIES, ETC.** The univ. offers annually a number of entrance scholps. on the results of the univ. entrance exam. The govts. of Singapore and the Fed. of Malaya offer bursaries and scholps. to suitable candidates requiring financial aid. Scholps. also offered by firms, etc.

**APPOINTMENTS BOARD.** A bd. is being set up to register prospective candidates and vacancies for appts.

**GRADUATES' ASSOCIATION.** There is a Univ. of Malaya soc. to which all grads. may be admitted.

**STUDENT RESIDENCES.** Men & women : 1st residential coll. Men : 2nd residential coll. Both colls. are in the univ. precinct.

**STAFF RESIDENCES.** At present, there are 30 units for academic staff. Further 50 units to be built ; houses rented by the univ. in the meantime to accomm. academic members of staff.

**STUDENT HEALTH SERVICE.** The univ. operates a student health service scheme for students living in the residential colls. for which a student health service fee of \$6 per term is payable. Under this scheme, the univ. provides free med. attention, incl. payment of ward charges in case of hospitalization, and runs a clinic in the 1st residential coll. under the charge of the student health physician, assisted by a nurse.

**STUDENTS' UNION.** All matriculated students are obliged to be members of the Univ. of Malaya in Kuala Lumpur students' union. This union (which is separate from the students' union in the Univ. of Malaya in Singapore) is administered by a students' council consisting of 25 to 30 students elected annually. There is an exec. cttee. apptd. by the students' council and there are also other standing and special cttees. as well as socs. which cater for soc., athletic and other student activities.

**PUBLICATIONS.** *Calendar.*

## THE YEAR 1959

[See entry for the University of Malaya, p. 609]

# MALTA

Royal University of Malta (p. 618)



# ROYAL UNIVERSITY OF MALTA\*

Founded 1592 ; raised to university status 1769

Postal Address : St. Paul Street, Valletta, Malta

Cables and Telegrams : University, Malta

Telephones : Central 24066-7, 21201-2

PATRON—H.M. THE QUEEN

CHANCELLOR—H.E. THE GOVERNOR OF MALTA

VICE-CHANCELLOR AND RECTOR MAGNIFICUS—J. A. MANCIHÉ, Hon. LLD *W.Ont.*, BSc MD

REGISTRAR—L. M. PACE, BSc(Econ) *Lond.*

BURSAR—P. GALEA CURMI

LIBRARIAN—.....

## TEACHING STAFF

[† = Part-Time]

<b>Anatomy and Histology</b>		<b>Greek, Classical</b>	
Griffiths, V. G., BSc MD, FRCS	†Prof.	Seaston, Rev. G. J., MA <i>Camb.</i>	Pro
<b>Biochemistry, see Physiol. and Biochem.</b>		<b>History</b>	
<b>Biology</b>		.....	Pro
.....	Prof.	Vella, Rev. Fr. A. P., BLitt <i>Oxon.</i>	Lect
Micallef, H., BSc <i>Lond.</i>	Actg. Lectr.	<b>Italian Literature</b>	
<b>Chemistry</b>		di Pietro, A., DLitt <i>Sacred Heart (Milan)</i>	Pro
Edwards, W. G. H., BSc <i>Lond.</i> , PhD	Prof.	<b>Latin Literature</b>	
<b>Dentistry</b>		Coleiro, Most Rev. Mgr. E., PhD <i>Lond.</i> , BA BLCan DD	Pro
Mangion, J. J., BSc MD, FDSRCS	(D. Surg.) †Prof.	<b>Law</b>	
.....	(Operative D. Surg.) Lectr.	Cremona, F., LLD (Comml. L.)	†Pro
<b>Economics and Statistics</b>		Caruana, V., OBE, JCB <i>Greg.</i> , BLitt LLD	(Civil L.) †Pro
Cirillo, Rev. R., MSc(Econ) <i>Lond.</i> , BSc(Pol) <i>Louvain</i> , BA DD	Lectr.	.....	(Crim. L.) †Pro
<b>Engineering and Architecture</b>		Xuereb, J. H., LLD (Science of Law)	†Pro
Colombo, J., BSc BE&A (Archit.)	†Prof.	.....	(Admin. L.) †Lect
.....	(Munic. Engin.) †Prof.	.....	(Canon L.) †Lect
Galea, V. R., MA <i>Oxon.</i> , BSc BE&A	(Civil Engin.) †Prof.	Busuttill, E., MA BLitt <i>Oxon.</i> , LLD BA	(Internat. L.) †Lect
Fenech, G., BSc(Eng) <i>Lond.</i>	(Engin. Drawing, Appl. Electr.) †Lectr.	Caruana Curran, M., BA LLD	(Course of Legal Procurators) †Lect
<b>English</b>		Cremona, J. J., DLitt <i>Rome</i> , BA PhD <i>Lond.</i> , BA LLD, FRHistS (Const. L.)	†Lect
Beck, R. J., PhD <i>St.And.</i> , MA <i>Oxon.</i>	Prof.	Harding, H., BA LLD	(Hist. of Legisln. in England & Malta) †Lect
Sultana, D. E., MA <i>Oxon.</i> , BSc MD	Lectr.	Ganado, J. M., PhD <i>Lond.</i> , BA LLD	(Roman L.) †Lect
<b>Maltese and Oriental Languages</b>			
		Aquilina, J., PhD <i>Lond.</i> , BA LLD	Prof

\* Member of the Association of Universities of the British Commonwealth

**Mathematics, Pure and Applied**

Borg-Costanzi, E. J., MA *Oxon.*, BSc BE&A Prof.  
Lectr.

**Medicine and Surgery, see below****Oriental Languages, see Maltese and Oriental  
Langs.****Philosophy**

Sapiano, Most Rev. Mgr. J., PhD SThD  
HistEcL *Greg.* †Prof.

**Physics**

Zahra-Neumann, C., BSc MD †Prof.  
Attard, M., BA *Oxon.*, BSc BE&A Actg. Lectr.

**Physiology and Biochemistry**

Ganado, W., BSc *Lond. & Malta*, MD †Prof.

**Theology**

Zarb, Very Rev. Fr. S. M., OBE, SThM  
SScriptD *Greg.* (Dogm. T.) †Prof.  
Bonnici, Most Rev. Mgr. C., BLCan DD  
(Moral & Ascet. T.) †Prof.  
Saydon, Very Rev. Mgr. P. P., LicSScript  
*Rome*, BLit BLCan DD  
(Holy Script, Biblical Greek &  
Hebrew) †Prof.  
Bonnici, Most Rev. Mgr. A., HistEcL *Greg.*,  
BA BLCan DD  
(Hist. of the Church & Chris-  
tian Archæol.) †Prof.  
Tabone, Rev. A., JCD (Canon Law) Prof.  
Lupi, Most Rev. Mgr. J., LicD *Greg.*,  
BLCan DD (Patrology & Liturgy) †Lectr.

**MEDICINE**

(for subjects of first 2 yrs.—  
Anat., etc., see above)

**Anæsthetics**

Podestà, C. H., BSc MD †Lectr.

**Bacteriology and Parasitology**

Agius, E., DPH *Liv.*, DipBact *Lond.*, BSc  
MD †Lectr.

**Diseases of the Ear, Nose and Throat**

Vella, S. L., BSc MD, FLS †Lectr.

**Forensic Medicine and Toxicology**

Galea, J., MBE, MD †Lectr.

**Materia Medica, Pharmacology and  
Therapeutics**

Zammit-Maempel, J. V., MD †Prof.

**Medicine**

Debono, J. E., CBE, BSc MD, FRCP †Prof.

**Mental Diseases**

Vassallo, V., OBE, MD *Naples*, DPM *Lond.* †Prof.

**Midwifery and Gynæcology**

Zammit, O., MSc *Liv.*, MD †Prof.

**Ophthalmology**

Damato, F. J., DO *Oxon.*, DOMS *Lond.*,  
MD, FRCS †Lectr.

**Orthopædics**

Amato, V., BSc MD, FRCS †Lectr.

**Pathology**

Xuereb, G. P., BSc DPhil *Oxon.*, DCP *Lond.*,  
BSc MD †Prof.

**Social and Preventive Medicine**

Colerio, C., DPH DTM *Liv.*, BSc MD †Prof.

**Surgery**

Craig, A. J., OBE, BSc MD, FRCS †Prof.

**Venereology and Dermatology**

Briffa, R., BSc MD †Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Chief Registry Clerk : L. Ellul. Chief Finance Clerk : E. E. Camilleri. Curator, Bot. Gardens : M. A. Delia. Asst. Librarians : S. Ellul ; J. A. Montalto.

**GENERAL INFORMATION**

The univ. began as a Jesuit coll. instituted in 1592 by Pope Clement VIII, who gave it the power of conferring degrees in philos. and in theol. It is still housed in a bldg. erected by the Jesuit Fathers. Its med. fac. originated in a sch. of anat. founded in 1674 by grandmaster Nicolas Cottoner in the great hospital of the

order, which accommodated 745 patients. Fra Emmanuel Pinto de Fonçeca, grandmaster of the order of St. John of Jerusalem, with authority from Pope Clement XIV, raised the coll. to univ. status in 1769.

CONSTITUTION. By an ordinance promulgated

in 1947, the univ. is governed by a council consisting of the chancellor as pres., the vice-chancellor and rector magnificus as vice-pres., a representative of the Inter-Univ. Council for Higher Educn. Overseas, 6 members from the legislature of Malta, 6 members elected by the senate of the univ., 1 member from the guild of grads. and 3 members appointed by the chancellor in consultation with the vice-chancellor. A senate consisting of 14 members, 12 elected by the facs. and 2 apptd. by the chancellor, to deal with questions regarding teaching and discipline, was also instituted by this ordinance. The council is the supreme authority of the univ.

**INCOME** (1958-59). Total, £81,068 (govt. grant, £74,450; students' fees, £5647; other sources, £971).

**LIBRARY.** 39,000 vols. **MUSEUM:** Archæol. **OBSERVATORY,** full meteorol. equipment and seismograph. **BOTANICAL GARDENS.** **HOSPITALS** available for clinics: general (650 beds) and several special—leprosy (80); mental diseases (800); invalid and old age (1000); pulmonary TB. (200).

**FACULTIES AND DEANS.** *Arts*, Prof. J. Aquilina (Maltese); *dent. surg.*, Prof. J. J. Mangion

(*dent.*); *engin. & archit.*, Prof. J. Colombo; *laws*, Prof. V. Caruana; *med. & surg.*, Prof. G. P. Xuereb (pathol.); *sci.*, Prof. E. J. Borg-Costanzi (maths.); *theol.*, Prof. S. M. Zarb.

**MATRICULATION** exam. requires pass in 6 subjs, incl. Engl. (lang. & lit.), Maltese, maths. and 3 other subjs. which must incl. a lang., a sci. subj. and another subj. at the choice of the candidates. Latin is obligatory for the facs. of arts, laws and theol. The inter. courses in arts & sci. start every yr. All other courses start every 2 yrs. The next inter. course (at 2-yrly. intervals) commences in Oct. 1961.

**FIRST DEGREES.** BA (hons.) (in Engl., Maltese, Latin, hist.), BA (gen.), BSc, BPharm—4 yrs.; BArch, BEng—7 yrs.; BChD, BD—6 yrs.; LicD, MD, LLD—7 yrs.; DD—8 yrs.

**HIGHER DEGREES.** MArch, MEng—open to grads. with at least 7 yrs.' practice.

**DIPLOMAS.** Notary public—6 yrs.; legal procurator, soc. & pub. admin.—3 yrs.; educn.—1 yr.

**FEES** (Tuition). £16-£22 p.a.

**PUBLICATIONS.** *Calendar* (Oct.), 5s.; *Annual Report*, 2s. 6d.

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, October 1959

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	212	—
Women . . .	13	—
Total . . .	225	—

**Distribution by Faculties.** *Arts*, 23; *dent. surg.*, 12; *engin. & archit.*, 11; *law*, 20; *med.*,

69; *pharm.*, 7; *pub. admin.*, 26; *sci.*, 25; *theol.*, 32. Total: 225.

*Included in the figures above are:—*

Postgraduate students, nil.

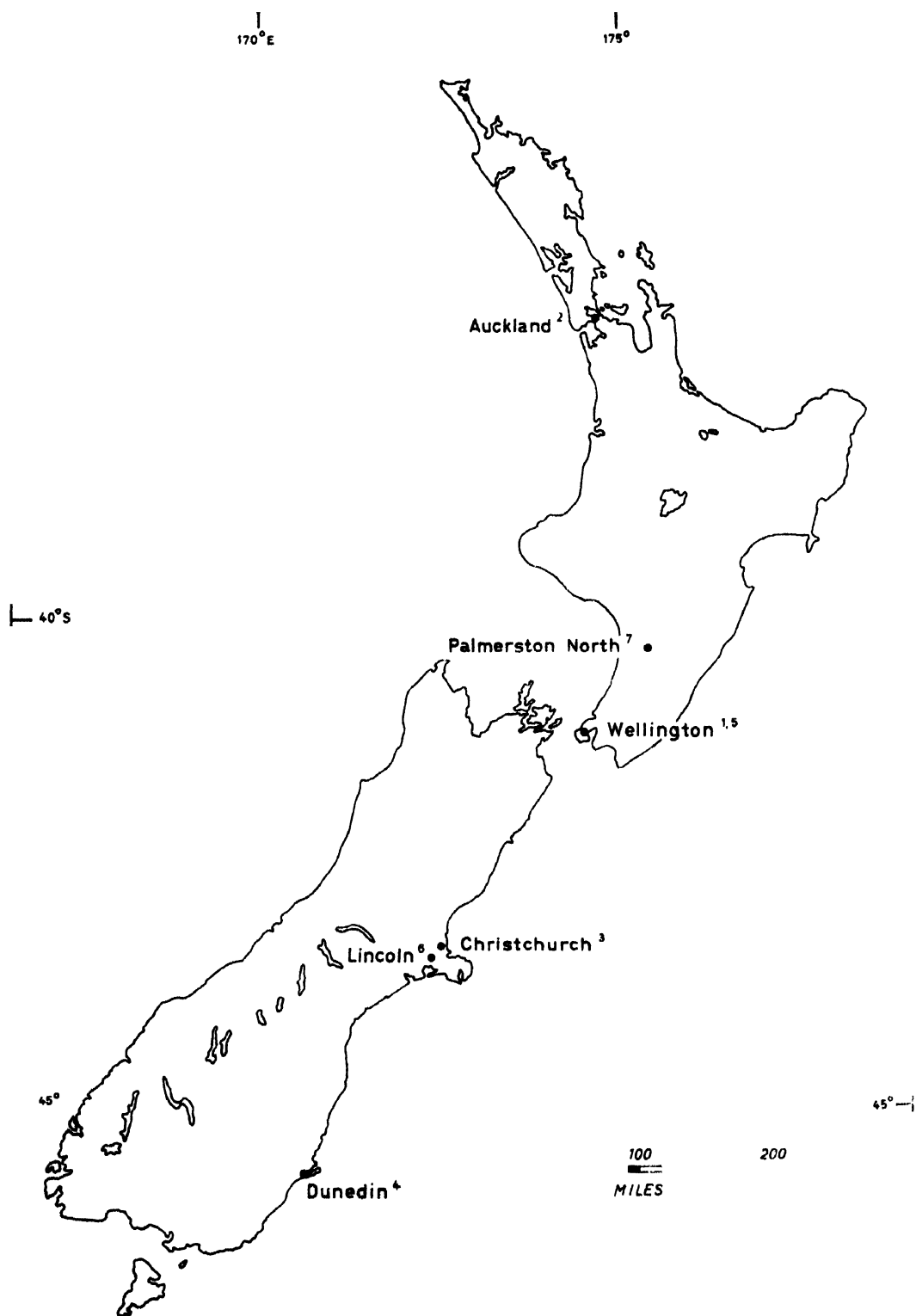
New admissions, 32.

Students from other countries, 4. (Country from which largest number came: Nigeria, 2).

**DEGREES AWARDED** (1959-60). BD, 1; L.L.D., 1; BPharm, 1; LicD, 9; MD, 2; DD, 1.

# NEW ZEALAND

- 1 University of New Zealand (p. 629)
- 2 University of Auckland (p. 631)
- 3 University of Canterbury (p. 635)
- 4 University of Otago (p. 639)
- 5 Victoria University of Wellington (p. 647)
- 6 Canterbury Agricultural College (p. 651)
- 7 Massey Agricultural College (p. 653)



1

*The places named are seats of university institutions as numbered overleaf*

# UNIVERSITY INSTITUTIONS IN NEW ZEALAND

[Contributed by Dr. F. J. Llewellyn, Vice-Chancellor, University of Canterbury\*]

**HISTORY.** The University of New Zealand was established by act of parliament in 1870 and now comprises four constituent institutions and two associated colleges. The first of these was established by the Scottish pioneers in 1869 through an ordinance of the provincial council of Otago as the University of Otago at Dunedin. When the concept of one university for New Zealand developed almost immediately, the Scottish settlers, somewhat reluctantly, yielded their right to their own independent university which became in 1874 a constituent college of the University of New Zealand whilst retaining the name University of Otago. In 1873 Canterbury University College was established, largely through the efforts of the Canterbury Association, at Christchurch. In 1876 the Queen granted a charter to the University of New Zealand. Auckland, the original capital of the colony, established its University College in 1882, and Wellington set up Victoria University College in 1897. Canterbury Agricultural College, Lincoln (a few miles from Christchurch), was established in 1873 and was controlled by the council of Canterbury University College until 1896 when it became more directly associated with the University of New Zealand. Massey Agricultural College, Palmerston North, was established in 1926, becoming the centre of agricultural education in the north island.

In October 1957 the titles of Auckland, Canterbury and Victoria university colleges became 'University of Auckland', 'University of Canterbury' and 'Victoria University of Wellington', respectively. These are changes of title only, and there is no change at present in the powers of these three institutions.

In August 1958 senate approved the establishment of a university college at Palmerston North as a branch of the Victoria University of Wellington and in April 1959 government approved these proposals and made financial provision for the establishment of the branch in 1960. First-year English, education, geography, history and mathematics will be available for students of the Palmerston North Teachers' College and other students resident in the Palmerston North district as internal students of the Victoria University of Wellington and the college will also be responsible for extra-mural tuition in these subjects to students from all university districts. In April 1959 government approved the establishment of a university college at Hamilton in 1960 as a branch of the University of Auckland. Tuition in first-year

English and history will be available in 1960 to students as internal students of the University of Auckland.

**CONSTITUTION.** The university has a federal structure and is similar in certain respects to the universities of London and Wales. According to the provisions of the University Act, 1908, the principal duty of the university was the conduct of the examinations for the students of the colleges and for many years the scripts were sent to Great Britain to be marked by examiners appointed by the university. The act of 1926 laid stress on the function of the university as an examining body and developed still further the university as a federation of colleges teaching for common degrees whose structures were determined by the university. During the past ten to fifteen years much of this authority has devolved upon the colleges themselves and this process is likely to be accelerated until ultimately the four constituent institutions become autonomous degree-granting universities.

The governing body of the university is the senate, which includes representatives of the constituent institutions and associated colleges, of the government and of the graduate body. The senate exercises authority in general academic and administrative matters. It is advised on academic matters by the academic board, which is composed of the vice-chancellor of the university, the academic heads of the constituent institutions, the principals of the agricultural colleges, together with representatives elected by the professors, lecturers and professorial boards of the constituent institutions and agricultural colleges. By an act of 1954 the senate delegated to a curriculum committee, consisting of the vice-chancellor, the academic heads of the four constituent institutions, the director of education, four professors and two others appointed by the senate, authority to approve course regulations for the various degree courses taught in the constituent institutions and agricultural colleges. Course regulations approved by the curriculum committee supersede degree statutes of the university and are regulations of the sponsoring institution. Whilst the basic degree structure set out in the various degree statutes of the university has been retained in these course regulations, there are now variations between constituent institutions in prerequisites, prescriptions, compulsory subjects and some other matters of detail.

See footnote to p. 635

At the present time, then, the curriculum committee and the academic board work side by side on academic matters with which the institutions and the university are concerned. Whilst the academic board advises senate, the curriculum committee has executive powers under its own act.

Senate is advised on matters relating to university entrance and university scholarship examinations not only by the academic board but by the entrance board, which includes representatives of the academic board, the post-primary schools' association, the registered private secondary schools and the department of education. Entrance to the constituent institutions and the agricultural colleges is therefore determined on a national basis by examinations controlled by senate on the advice of the entrance board and the academic board.

The constituent institutions and agricultural colleges are governed by councils and boards of governors respectively which include representatives of the professoriate, lecturers, school teachers, education boards, the graduates and appointees of the governor-general. Councils and boards of governors are advised on academic matters by professorial boards which are in turn advised by faculties.

As devolution proceeds, more authority is being vested in the councils of the constituent institutions so that ultimately, when independent universities are established, the powers of ordinary unitary university governing bodies will devolve upon them. Senate has now set up a committee to make recommendations concerning the completion of the devolutionary process and to determine what functions should remain central.

**RELATIONSHIP TO GOVERNMENT.** The university and the constituent institutions and agricultural colleges are independent of government control in all academic matters except and in so far as any developments require the approval of parliament and consequent amendment to the university acts.

In financial matters, both with regard to annual grants (which are negotiated on a quinquennial basis) and grants for capital items including buildings, negotiations are conducted by the University Grants Committee with the minister of education. The grants committee is a body consisting of the vice-chancellor of the university *ex officio* and five persons not associated with any of the constituent institutions or agricultural colleges. The members are appointed by the senate after consultation with the ministers of finance and education. The financial needs of the institutions and colleges are put before the grants committee by the various councils and boards of governors and these are then sifted and collated by the committee before being presented to the government through the minister of education.

**FINANCE.** The total recurrent income of the university, the constituent institutions and the agricultural colleges for the year 1959 was approximately £2,150,000, of which £1,804,000 was from government sources, £30,000 from endowments,

£280,000 from fees and the remainder from miscellaneous other sources.

**PRE-UNIVERSITY EDUCATION.** The normal minimum pre-university education required is six years at primary school, two years at intermediate school (or, alternatively, eight years at primary school) followed by four years at post-primary school, at which time the university entrance examination is normally taken. A further year at post-primary school leads to a higher school certificate or to the competitive university scholarship examination. Students are strongly encouraged to spend this extra post-university entrance year at school and the majority do so.

The university entrance examination varies in scope and content from time to time and at present consists of English and three other subjects from a fairly wide list. Adequate provision is made for the recognition of the entrance examinations of other universities.

**ADMISSION.** Until recently all qualified applicants for admission to the university (i.e. those who have passed the university entrance examination or those who have been accredited by their schools with a pass in this examination or those who have secured an equivalent overseas qualification) have been accepted without any further selection. It is likely, however, that accommodation problems will require some selection to be made in the near future, particularly in science and engineering courses. Admissions to professional courses in medicine and dentistry are limited and from time to time competitive on the results of the first year (intermediate medical or dental) university examinations.

Candidates for university entrance may either sit the prescribed examination or be accredited by the headmaster of their school. Only certain schools, approved by the senate, have power to accredit. General liaison is maintained on the many questions relating to entrance, and on the accrediting process in particular schools, by liaison officers. One liaison officer is attached to the staff of each of the constituent institutions with the status of senior lecturer.

*Ad eundem* admission to postgraduate study and research is determined by senate following individual application. It is usual for applicants from Commonwealth and most other countries, who are adequately qualified to proceed to higher degrees in their own universities, to be permitted to register and pursue a course of study leading to a higher degree in the University of New Zealand.

**STRUCTURE OF DEGREE COURSES.** Each of the four constituent institutions provides degree courses in arts, commerce, law, music and science. Courses for various other professions are provided as follows: *Auckland*—architecture, engineering and fine arts; *Canterbury*—engineering and fine arts; *Otago*—dentistry, home science, medicine, mining and physical education; *Wellington*—political science, public administration and social science. See also p. 628.

Courses for the first degrees of BA, BSc and BCom require a minimum of three years' study and are made up of units. Each unit represents one year's work in a subject, *e.g.* eight units are required for BSc degree and nine units for BA degree. Honours are awarded for the bachelor's degree in architecture, engineering and music. Except at the University of Canterbury and the University of Otago, honours are not awarded for the other bachelor's degrees, but a candidate having graduated with a bachelor's degree may in certain faculties, *e.g.* arts, commerce, law, science, proceed to a course (one or two years), which is partly a lecture course and partly research or other original work, for a master's degree with or without honours, according to the standard of attainment.

The minimum number of years of study for other first degrees is as follows: BAg, three years; BHSc, BAgSc, BArch, BE (civil, electrical, mechanical, metallurgical, or mining), MusB, four years; LLB, BE(Chem), BE (hons.), BDS, BMedSc, five years; MB ChB, six years.

Professional courses in special schools are normally preceded by an intermediate course (one or two years) which may be taken at any of the constituent institutions. Courses in agriculture leading to BAg and BAgSc may be taken wholly at the agricultural colleges or alternatively the first year intermediate course may be taken at any of the constituent institutions. Examinations for bachelor's and master's degrees are taken annually in October/November.

Postgraduate study (*i.e.* post master's degree or post bachelor's honours degree) usually involves original supervised work together with some tutorial and discussion type instruction. Normally there is no organized lecture course leading to a written examination, although the candidate may be required, if his thesis or dissertation is not wholly acceptable, to subject himself to some further examination.

**TEACHING STAFF.** The grades of staff within the university are: (1) professors (who are also professors of the university, even though they are for all practical purposes members of the staff of the constituent institutions or agricultural colleges); (2) associate professors, who are lecturers of especial personal merit or distinction; (3) senior lecturers; (4) lecturers; (5) assistant or junior lecturers.

The usual teaching method is the formal lecture, but increasingly in the more advanced work seminars, tutorials and informal discussion methods are being introduced. In most departments there is reasonable time available for personal research and study, but the teaching load is generally somewhat greater than in universities in the United Kingdom.

Members of staff (1-4 *above*) may expect leave for up to one year for travel and study overseas every six or seven years. Conditions of leave vary somewhat from one institution to another, but usually provide for full salary, a travel allowance

and a maintenance grant dependent on the circumstances.

There is a national scale of salaries for university teachers which is determined by government on the recommendation of the University Grants Committee. Following the publication in January 1960 of the Parry report, government has approved the following salary scales as from April 1, 1960: Academic heads of: constituent institutions £3300, agricultural colleges £3100. Professors, £2800; associate professors, £2250; senior lecturers (heads of departments) ( $2 \times$  £100,  $1 \times$  £50), £1900-£2150; senior lecturers ( $2 \times$  £100,  $1 \times$  £50), £1750-£2000; lecturers ( $\times$  £75), £1250-£1700; assistant lecturers ( $\times$  £50), £900-£1100.

Superannuation is available under the N.Z. government superannuation scheme; at present there is no reciprocal arrangement with F.S.S.U. or other overseas schemes. The usual method of appointment is by advertisement; it is not usual for posts to be filled by invitation. Advertisements are normally placed in appropriate newspapers and journals in New Zealand and the United Kingdom and occasionally in other Commonwealth countries. Persons of foreign nationality are considered for appointment and there are no statutory restrictions as to nationality. An analysis of the 1959 full-time staff statistics for the four teaching universities shows that 68 per cent. secured their first degree in New Zealand and of these 72 per cent. did so in their employing university; 22 per cent. secured their first degree in the United Kingdom; 7 per cent. in Commonwealth countries other than the United Kingdom; 3 per cent. in other countries. Most of those who secured their first degree in New Zealand have read for a second degree in some overseas country.

**STUDENTS.** Whilst the university and the constituent institutions recognize the importance of full-time academic study, this ideal has not been fully realized, particularly in arts, commerce, law and music courses. It is virtually impossible to take degree courses in architecture, dentistry, engineering, home science, medicine, mining or science except as a full-time student. Of some fourteen thousand internal students, rather less than half are part-time; a further 1200 are external students registered with the university, but permitted to pursue their courses through private study, provided they pass the examinations conducted each year either by the university or by the constituent institutions on behalf of the university.

Relatively few students live in halls of residence, the proportion being highest in Otago and lowest in Auckland and Wellington. Student corporate life is focused on the students' union controlled by an elected student executive which organizes a full programme of cultural and sporting activities through the various societies and clubs. A representative of the students in each constituent institution sits on that university's council. Student health services exist in most of the universities and



there are usually also counsellors or tutors and lodgings officers. There is no appointments board or overseas universities information bureau.

Most fees range from £5:5s. to £10:10s. per subject per year. Thus, for example, total fees for a BSc course are approximately £70 plus small laboratory charges and student association fees (approximately £3 per annum). Students who have a university entrance qualification are entitled to bursaries which pay fees (but not for a repeat course necessitated by failure). Students with a higher school certificate are entitled to an additional monetary allowance, together with a boarding allowance if the student lives away from home, and students with scholarships obtained from high placing in the university entrance scholarship list receive a still higher monetary allowance in addition to free tuition and boarding allowance. Many students supplement their bursary incomes with vacation employment; some students who for one reason or another are ineligible for bursary awards are able, by working throughout the long vacation, to finance themselves for full-time study during the university session.

The approximate annual cost of study and residence for a full-time student from overseas is as follows: tuition, examination and miscellaneous fees, £30-£55; board (either private or hostel during term and private during vacation), £250; clothes, books, travel, etc., £150-£200.

A very considerable increase in the number of university students is expected in 1960 and subsequent years; this arises partly from the natural increase in the population, partly from the population increase due to immigration, but mainly from the high level of the birth-rate in the 1940s.

**ACADEMIC YEAR AND VACATION COURSES.** The academic year consists of three terms of approximately nine, eleven and six teaching weeks with short vacations between first and second and second and third terms. It begins in early March and ends in late November. There are no vacation courses for degree purposes, but engineering and some other students undergo practical training in works or field camps during the vacations.

**EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION.** Constituent institutions control, through the regional councils for adult education, various extension and other courses for non-university students within their respective districts. The universities also play some part in the activities of the Workers' Educational Association. For this work special grants are paid to the universities from the National Council of Adult Education, a body established under a separate act of parliament.

**INTER-UNIVERSITY ORGANIZATIONS.** The university, through the vice-chancellor and the academic heads of the constituent institutions, is seeking a closer liaison with the Australian vice-chancellors. The professors and lecturers are mostly members of the Association of University Teachers (secretary: E. M. Fraser, History Department, University of Auckland, Box 2553

C.P.O., Auckland) which is organized on a regional and national basis. The students' associations in the various centres adhere to the National Union of Students (address of secretary: P.O. Box 1884, Wellington, C.1).

**THE UNIVERSITIES TO-DAY.** A great increase in student numbers is expected in the next few years, and to cope with this an extensive major building programme is getting under way; this includes in its first phase a dental school at Otago, an engineering school at Canterbury, a science block at Victoria and probably a science block at Auckland.

The University of New Zealand is in process of devolution towards the establishment of separate universities which may grant their own degrees and in 1957 the titles of Auckland, Canterbury and Victoria university colleges became 'University of Auckland', 'University of Canterbury' and 'Victoria University of Wellington', respectively. These are changes of title only, there being no change at present in the powers of these three institutions. The next steps in the devolutionary process are now being considered.

The government, in close consultation with the University of New Zealand, set up a Committee on University Education to enquire generally into the needs of universities in New Zealand. It began its sittings in September 1959 and reported in January 1960. The committee consisted of three members: Sir David Hughes Parry (chairman), then director of the Institute of Advanced Legal Studies, University of London; Dean G. Andrew, deputy to the president of the University of British Columbia; and Dr. R. W. Harman, chairman of the New Zealand Atomic Energy Committee.

The report deals with almost every aspect of university education in New Zealand, including the role of the university in the New Zealand community; the universities and New Zealand's economic development; the demand for and supply of university graduates; university entrance; part-time and extra-mural study; scholarships, bursaries and other financial assistance to students; salaries and conditions of recruitment and employment; university staffing; buildings and equipment; science and technology; new developments and new institutions; the separate universities; the University Grants Committee; university finance. (Copies of the Report may be obtained from the government printer, Wellington, New Zealand).

**INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES.** The universities in New Zealand have a dominant role in higher and adult education. Some government departments, however, play a part in giving specialized technological training to employees, as also do some of the larger industrial enterprises. Nurses, dental nurses and teachers are trained by government departments or local authorities, although post-primary teachers, in particular, and many primary as well, also take university courses.

In addition to university courses for the professions, the technical school system, including the government's technical correspondence school, offers some professional courses, such as engineering and accountancy; the technical schools, however, are mainly concerned with vocational and apprentice training. There are no technical colleges at the higher education level.

There is a growing demand for some systematic training for technicians and other workers occupying a middle place between the university-trained technologist and the tradesman. In this field a significant start has been made with the recent introduction of a New Zealand certificate of

engineering for which courses are given at the large technical colleges and in 1960 it is proposed to begin a two-year full-time course in pharmacy.

The university is not responsible for teacher training, which is carried out under the control of the minister of education in teacher training colleges established for that purpose in the university centres and in Hamilton and Palmerston North.

**PUBLICATIONS.** See Appendix V and the 'Publications' section of the entries for the University, constituent institutions and associated colleges, below.

## DIRECTORY TO SUBJECTS OF STUDY

(See also table on p. 628)

The following subjects may be studied, as part of the course leading to a first degree and/or at postgraduate level, at all of the constituent institutions of the University of New Zealand: accountancy, botany, chemistry, classics, economics, education, English, French, geography, geology, German, history, law, mathematics, music, philosophy, physics, political science, psychology, zoology.

For details of the agricultural subjects which may be studied at Canterbury Agricultural College and Massey Agricultural College, see the college entries on pp. 651-656.

The table on p. 628 shows which of the constituent institutions provide facilities for study or research in a number of other subjects. The symbol ✓ means that the subject can be studied at the university indicated *only* as a main or subsidiary part of the course for a first degree, or for a diploma, certificate, etc.; the symbol ✓ means that the subject can be studied at the university indicated at undergraduate *and* postgraduate levels; the symbol / means that the subject can be studied at the university indicated *only* at postgraduate level.

## STATISTICS

[Source: University of New Zealand]

### STUDENT NUMBERS, 1960

(as at July 1, 1960)

	Full-Time	Part-Time	External
Men	5979	4927	1046
Women	1986	1678	

Total 7965 6605 1256

Distribution by Faculties. *Agric.*, 885; *archit.*, 19; *arts*, 4680; *comm.*, 2218; *dent.*, 165; *div.*, 8; *educn.*, 114; *engin.*, 899; *fine arts*, 329; *home sci.*, 174; *law*, 1012; *med.*, 558; *music*, 128; *phys. educn.*, 96; *physiotherapy*, 66; *pub. admin.*, 1; *radiol.*, 9; *sci.*, 2771; *soc. sci.*, 19; *other*, 86. Total: 14,553.

Included in the figures above are:—

Postgraduate students, 828.

New admissions, 4176.

Students from other countries, 468. (Countries from which largest numbers came: Fiji, Malaya).

**DEGREES AWARDED (1959).** *Agric.*: BAg, 3; BAgSc, 18; BAgSc(Hort), 2; MAgSc, 6; MAgSc(Hort), nil. *Archit.*: BArch, 8. *Arts*: BA, 361; MA, 161. *Comm.*: BCom, 44; MCom, 2. *Dent.*: BDS, 33; MDS, 1. *Div.*: BD, 4. *Engin.*: BE, 101; BE (hons.), 27; ME, 18. *Home sci.*: BHSc, 7. *Law*: LLB, 100; LL.M, 3. *Med.*: BMedSc, 3; MB ChB, 88; ChM, 1; MD, 9. *Music*: MusB, 1; MusB (hons.), 3; MusD, 1. *Sci.*: BSc, 210; BSc (hons.), 11; MSc, 67; DSc, 5. PhD (all facs.): 14. Total number of first degrees awarded, 1024.

**DIPLOMAS AWARDED (1959).** DipBanking, 1; DipEd, 17; DipFineArts, 23; DipFineArts (hons.), 1; DJ, 1; DipMusic, 5; DipObstetrics, 9; DPH, 3; DipMicr, 2.

For Table showing facilities for study and research, see overleaf.

NEW ZEALAND DIRECTORY TO SUBJECTS OF STUDY (see p. 627)—TABLE  
SHOWING FACILITIES FOR STUDY AND RESEARCH

*Note.*—For subjects which can be studied at *all* of the constituent institutions of the University of New Zealand, see p. 627.

<i>For an explanation of the symbols used, see p. 627</i>	Auckland	Canterbury	Otago	Wellington
Ancient History	✓	✓		
Anthropology	✓		✓	
Architecture	✓			
Asian Studies				✓
Biochemistry			✓	✓
Dentistry			✓	
Economic History		✓		
Engineering, Chemical		✓		
Civil	✓	✓		
Electrical	✓	✓		
Mechanical	✓	✓		
Fine Arts	✓	✓		
Hebrew	✓		✓	
Home Science			✓	
Industrial Chemistry		✓		
Italian	✓			✓
Maori Studies	✓			
Medicine <sup>1</sup> /Medical Science <sup>2</sup>			✓	
Microbiology			✓	
Mining and Metallurgy			✓	
New Zealand History				✓
Obstetrics and Gynæcology	/		✓	
Physical Education			✓	
Physiology			✓	
Public Administration				✓
Public Health			✓	
Russian		✓		✓
Social Science				✓
Sociology		✓		✓
Theology			✓	
Town Planning	✓			
Urban Valuation	✓			

<sup>1</sup> MB ChB<sup>2</sup> BMedSc, MMedSc

# UNIVERSITY OF NEW ZEALAND\*

Founded 1870

Corner Bowen and Mowbray Streets, Wellington

*Postal Address* : P.O. Box 8035, Govt. Buildings, Wellington, C.1, New Zealand

*Cables and Telegrams* : Aude, Wellington, New Zealand

*Telephone* : Wellington 43415

VISITOR—H.E. THE GOVERNOR-GENERAL OF NEW ZEALAND

CHANCELLOR—The Hon. Sir DAVID S. SMITH, Hon. DCL *Oxon.*, LL.M.

PRO-CHANCELLOR—L. J. WILD, CBE, MA BSc Hon. DSc

VICE-CHANCELLOR—Sir GEORGE A. CURRIE, BSc(Agric) DSc *Aberd.*, Hon. LL.D. *Aberd., Melb. & Dal.*, Hon. Litt.D. *W.Aust.*

REGISTRAR—E. G. KEDGLEY, BA BCom

ASSISTANT REGISTRARS—W. O. BROAD, BCom (Academic) ; D. W. PULLAR, BCom (Finance)

AGENT IN ENGLAND (FINANCIAL)—THE HIGH COMMISSIONER FOR NEW ZEALAND, 415 Strand, London, W.C.2. (ACADEMIC)—Professor R. O. BUCHANAN, BSc(Econ) PhD *Lond.*, MA, London School of Economics and Political Science

## CONSTITUENT INSTITUTIONS

UNIVERSITY OF AUCKLAND : *see* p. 631.

UNIVERSITY OF OTAGO : *see* p. 639.

UNIVERSITY OF CANTERBURY : *see* p. 635.

VICTORIA UNIVERSITY OF WELLINGTON : *see* p. 647.

## ASSOCIATED COLLEGES

CANTERBURY AGRICULTURAL COLLEGE : *see* p. 651.

MASSEY AGRICULTURAL COLLEGE : *see* p. 653.

## GENERAL INFORMATION

(*see also* pp. 623-628)

The univ. was founded, as a purely examining univ., by an act of the colonial govt. in 1870. It received its royal charter in 1876. Its constitution is defined in the N.Z. Univ. Act, 1908, and subsequent amendments. One of the most important of these later amendments was that of 1926 by which the univ. was re-establd. as a federal univ. consisting of the 4 constituent instns. together with the 2 agric. colls. By amending legislation of Oct. 1957 the titles of Auckland, Canterbury and Victoria university colleges became 'University of Auckland', 'University of Canterbury' and 'Victoria University of Wellington', respectively.

The federal univ. is now largely concerned with wider problems of the promotion and co-ordination of univ. educn. and res. and, within recent years, has establd. a univ. press, a res. fund (at present £25,000 p.a.) and a univ. grants cttee. It supervises higher teaching appts. in the constituent instns., and the governing bodies of the

instns. cannot make any appt. to a chair without the prior approval of the senate. A prof. so apptd. becomes a 'prof. of the univ.'

The univ. owns, in Wellington, Univ. House, which contains its admin. offices and the senate room.

**CONSTITUTION.** The govt. of the univ. is vested in the senate, advised on academic matters by the academic bd., and on entrance matters by the entrance bd. The senate consists of the chancellor, pro-chancellor and vice-chancellor, 4 members nominated by the governor-general, 8 apptd. by the governing bodies of the constituent instns., 2 by councils of agric. colls., 1 by the senate, 5 by convocation, 3 by the academic bd., the vice-chancellors of the constituent instns. and the dir. of educn.

**ADMISSION.** The principal exam. qualifying for matric. is the entrance exam. held in Dec., when the candidate is required to pass in Engl.

and in 3 other subjects selected from appropriate groups of subjects. The entrance exam. is no longer in any way related to the sch. cert. exam. in New Zealand, that exam. normally being taken at least a yr. before the candidate takes the entrance exam.

Special provision is made for the admission to certain courses of students who have reached the age of 21 yrs. and who give evidence of some reasonable educnl. background though they have not passed the entrance exam. This admission is later confirmed on results gained.

Students from overseas are admitted at the discretion of a cttee. of the senate if they have passed an approved entrance exam. in a univ. overseas, or if they have passed such an exam. at a standard which appears to the cttee. to be the standard of univ. entrance in New Zealand.

'AD EUNDEM' RECOGNITION. Courses completed, or partly completed, at any British or other approved univ. may be accepted *ad eundem statum*.

EXTERNAL STUDENTS. Provision is made for the admission of students exempted from attendance at lectures, to the exams. for the degrees of BA, BSc, LLB, LL.M, BCom, MCom, MusB, and BD, except in those subjs. where practical cert. is required. Exemption in any subj. at stage III for BA and BSc is contingent on completion of 3 units (incl. one at stage II) as an internal student. Exemption is available only to students domiciled in N.Z. or in N.Z. island territories.

ACADEMIC YEAR. Three terms: autumn (March-May), winter (June-Aug.) and spring (Sept.-Oct. or Nov.).

FIRST DEGREES. 3 yrs.—BA, BAgr (4th yr. for BAgrSc provided candidate does not graduate BAgr), BAgr(Hort), BSc, BSc pass, hons., BPharm (except at Univ. of Auckland); 4 yrs.—BHSc, BAgrSc (incl. practical work on farm), BAgrSc(DairyTech), BAgrSc(Hort), MusB pass, hons., BArch (incl. 18 mos. practical work), BE (chem., civil, electr., mech., metall., mining, incl. from 9 to 18 mos. in shops, mines or surveying), BCom; 4 or 5 yrs.—BMedSc; 5 yrs.—LLB, BE (hons.), BDS; 6 yrs.—MB ChB.

The degree of BSc hons. (Univ. of Canterbury) may be awarded in one of the following: biochem., bot., chem., geog., geol., maths., microbiol., phys., physiol., psychol., zool.

BA, LLB and BCom can be taken largely or solely by pt.-time or evg. attendance and it is possible, but difficult because of the practical

work requirements, to take a BSc by pt.-time study.

The governing body of each constituent instn. and agric. coll. has power to make course regns. which must be complied with by students before degrees and dipl. of the Univ. of N.Z. may be conferred on them. One result is that the length of a degree course at a constituent instn. may differ from that stated above.

HIGHER DEGREES. For masters' degrees, i.e. MA, MSc, MCom, LL.M, ME, MHSc, MAgrSc, MAgrSc(DairyTech), MAgrSc(Hort), MMedSc, 1 or 2 yrs. of study beyond the bachelor's degree is required, with exams. and thesis; for doctors' degrees (except MD, ChM), i.e. LittD, LL.D, DSc, MusD, DDS, 5 yrs. standing as master, and an approved thesis; for MD, ChM, 3 yrs. standing, with approved thesis and exams.; for PhD, 2 yrs. standing, with approved thesis and exam.; for BD, 2 yrs. postgrad. work. All higher degrees are open to grads. of other univs. provided they have been granted 'ad eundem' admission with the prerequisite qualifs. and provided they are resident in N.Z. (except in the case of doctorates where publd. work only is acceptable).

HONORARY DEGREES. LL.D, DSc, LittD, MusD.

DIPLOMAS. Banking, fine arts, music, each 3 yrs.; educn., 1 yr. after BA; microbiol., 1 yr. after bachelor's degree; obstet., pub. health, 2 yrs. after MB ChB; town planning, 2 yrs. after BArch or BE. The constituent instns. and the two associated agric. colls. also award their own dipls.

PROFESSIONAL SCHOOLS. See p. 624.

'OPEN' POSTGRADUATE AWARDS. National Res. scholps., offered annually by D.S.I.R. to sci. grads. of N.Z. Univ. or other approved persons; about 6 res. fellowships (£450 p.a.) awarded annually from the res. fund, which, from time to time, may make awards of a higher value to sci. workers.

PUBLICATIONS. *Calendar* (Jan.), 4s. (plus postage); *Minutes of Proceedings of Senate*, free; entrance or entrance scholp. *Exam. Papers*, 3s. set; *Research in the Univ.*, 1946-49, 1950-52; J. C. Beaglehole: *The Univ. of N.Z., an Historical Study* (N.Z. Council for Educnl. Res., 1977) *Facts and Figures* (1959).

UNIVERSITY PRESS. Establd. 1947, by a grant from senate. Publishes text-books and works of scholarship.

## THE YEAR 1959

(see also separate entries for the constituent instns. and agric. colls.)

NEW DEPARTMENTS AND CHAIRS. Chairs: zool. (Auckland), architectural constrcn. (Auckland), fine arts (Canterbury), therapeutics (Otago).

HONORARY DEGREES. DSc—H. G. Forden, prof. of maths. at Auckland, 1934-56.

# UNIVERSITY OF AUCKLAND\*

Founded 1882

Postal Address : Box 2175 C.P.O., Auckland, New Zealand

Cables and Telegrams : University, Auckland

Telephone : 30-060

VISITOR—THE MINISTER OF EDUCATION

CHANCELLOR—W. H. COCKER, CMG, MA LLB *Camb.*, BA LLB

PRO-CHANCELLOR—Sir DOUGLAS ROBB, CMG, BSc MD ChM, FRCS, FRACS, Hon. FACS

VICE-CHANCELLOR—K. J. MAIDMENT, MA *Oxon.*

REGISTRAR—J. A. KIRKNESS, JP, MCom

LIBRARIAN—F. A. SANDALL, BA, FLA

## TEACHING STAFF

[† = Part-Time]

### Accountancy

Holt, L. W., MCom, FRANZ  
(Accty.) Assoc. Prof., Hd. of Dept.  
Leys, W. C. S., MA LLM  
(Comm. Law) Sr. Lectr.

Field, J. E., MCom Lectr.  
Tabb, J. B., BCom Lectr.  
Kennedy, B. A., LLB †Lectr.  
Twomey, M. K., BCom †Lectr.  
Rose, J. D., BCom †Lectr.  
Davis, A. E., DFC, BCom †Lectr.

### Anthropology

Piddington, R. O., PhD *Lond.*, MA *Syd.* Prof.  
Biggs, B. G., MA PhD *Indiana* Sr. Lectr.  
Groves, M. C., BA *Melb.*, DipAnthrop  
DPhil *Oxon.* Sr. Lectr.  
Bulmer, R. N. H., BA *Camb.* Lectr.  
Scobie, R. A., MA *Lond.* †Lectr.  
Taylor, R. S. T., DDS †Lectr.

### Architecture

Light, A. C., BA *Lond.*, FRIBA, FNZIA Prof.  
Toy, R. H., PhD *Dub.*, BArch (Design) Prof.  
Kennedy, R. T., CBE (Town Planning) Prof.  
Marshall, A. C., BArch Sr. Lectr.  
Brown, V. A. Sr. Lectr.  
Ferriday, E. G., BSc(Eng) *Birm.* Sr. Lectr.  
Rosenberg, G. (Town Planning) Sr. Lectr.  
Cutter, C. G. Sr. Lectr.  
Brett, M., DipArch *Liv.* Sr. Lectr.  
Middleton, P., DipArch *Nott.* Sr. Lectr.  
Neal, A. W., BArch Sr. Lectr.  
Porsolt, I. V., DipArchEng *Prague* Sr. Lectr.  
Smith, G., BArch Sr. Lectr.  
McClean, E. C., BArch Sr. Lectr.

Neale, E. P., DSc MCom LLB †Lectr.  
Noble, F. E. R., DipUrbVal †Lectr.  
Pow, R. H., DipTP *Lond.*, BSc †Lectr.

### Botany

Chapman, V. J., MA PhD *Camb.*, FLS Prof.  
Millener, L. H., PhD *Camb.*, MSc Sr. Lectr.  
Rattenbury, J. A., PhD *Calif.*, MA  
(Genetics) Sr. Lectr.  
Brown, J. M. A., MA Sr. Lectr.

### Chemistry

Llewellyn, D. R., BSc *Birm.*, DPhil *Oxon.*,  
FRIC, FNZIC Prof., Dir. of Labs.  
Briggs, L. H., DPhil *Oxon.*, DSc, FNZIC,  
FRSNZ Prof.  
Odell, A. L., PhD *Lond.*, MSc Assoc. Prof.  
Maslen, H., MSc Sr. Lectr.  
Hall, D., MSc Sr. Lectr.  
Seelye, R. N., MSc Sr. Lectr.  
Swedlund, B. E., MSc PhD *Lond.* Sr. Lectr.  
Turney, T. A., MSc Lectr.  
Olliff, R. W., MSc Lectr.  
Cambie, R. C., MSc PhD Lectr.  
Thorp, J. M., BSc PhD *Lond.* Lectr.  
Waters, T. N. M., MSc PhD Lectr.  
Bishop, Charmian J., MSc Jr. Lectr.

### Classics

Blaklock, E. M., MA LittD Prof.  
Crawley, L. W. A., BA *Camb.*, MA Sr. Lectr.  
Harris, B. F., MA *Oxon.*, BA BD Sr. Lectr.  
Minn, H. R., BD PhD *Lond.*,  
MA *Lond.* & N.Z. Lectr.  
Cowlin, R. G., MA *Camb.* (Anc. Hist.) Lectr.  
Dellow, K. J., MA †Lectr.

\* Associate Member of the Association of Universities of the British Commonwealth

**Economics**

- Simkin, C. G. F., DPhil *Oxon.*, MA  
DipSocSc Prof.  
Bergstrom, A. R., PhD *Camb.*, MCom Sr. Lectr.  
Lloyd Prichard, Muriel F., MA *Wales*,  
PhD *Camb.* Sr. Lectr.  
Brownlie, A. D., MCom Sr. Lectr.  
Argy, V. E., BA BEc *Syd.* Lectr.

**Education**

- Winterbourn, R., PhD *Lond.*, MA DipEd Prof.  
Cumming, I., PhD *Lond.*, BA MEd *Melb.*,  
FRHistS Sr. Lectr.  
Minogue, W. J. D., PhD *Ohio State*, MA  
(on leave) Sr. Lectr.  
Barney, W. D., MA DipEd PhD *Lond.*  
Hare, W. B., MA DipEd Sr. Lectr.  
Arvidson, G. L., MA PhD *Lond.* Lectr.

**Engineering**

- Mowbray, N. A., BE(Civil), MICE  
(Civil E.) Prof.  
Kettleborough, C. F., BE PhD *Sheff.*,  
MNZIE (Mech. E.) Prof.  
Bogle, A. G., DPhil *Oxon.*, BE(Electr-Mech),  
MIEE (Electr. E.) Prof.  
Dawson, C. (Electr. E.) Sr. Lectr.  
De Bray, B. P. G., MSc *Lond.*, MIMechE  
(Aeronaut. E.) Sr. Lectr.  
Thomass, L. H., BSc *Lond.*, BE(Civil)  
(Civil E.) Sr. Lectr.  
Glover, J. H., BSc *Lond.* (Mech. E.) Sr. Lectr.  
McMullen, J. J., BSc *Lond.* (Electr. E.) Sr. Lectr.  
Titchener, A. L., ScD *M.I.T.*, BE(Mining)  
BSc BE(Mech) (Mech. E.) Sr. Lectr.  
Taylor, P. W., BSc BE (Civil E.) Sr. Lectr.  
Jehson, W. N. (Mech. E.) Sr. Lectr.  
Raudkivi, A. J. (Civil E.) Sr. Lectr.  
Percy, J. H., PhD *Camb.*, BE BSc  
(Civil E.) Sr. Lectr.  
Egan, B., BE(Electr) BA (Electr. E.) Sr. Lectr.  
Lee, K. C., BE(Civil) Lectr.

**English Language and Literature**

- Musgrove, S., MA DPhil *Oxon.* Prof.  
Joseph, M. K., BLitt *Oxon.*, MA *Oxon.* &  
N.Z. Assoc. Prof.  
Sheppard, Elizabeth A., MA PhD *Lond.*  
Sr. Lectr.  
Reid, J. C., MA DLitt Sr. Lectr.  
Curnow, T. A. M., BA Sr. Lectr.  
Crawford, T., MA *Edin.* & N.Z. Sr. Lectr.  
Pearson, W. H., PhD *Lond.*, MA Sr. Lectr.  
Cameron, W. J., MA PhD *R'dg.* Lectr.  
Stead, C. K., MA Lectr.  
Day, P. W., MA *Oxon.* & N.Z. Lectr.

**Fine Arts, Elam School of**

- Kavanagh, J. F. (Sculpture) Sr. Lectr.  
McLaren, A. W. S.  
(Painting & Figure Drawing) Sr. Lectr.  
Turkington, J. (Design) Sr. Lectr.

- Ellis, R. W. (Design) Sr. Lectr.  
White, Anna L.  
(Painting & Figure Composition) Lectr.  
Nicholson, W. M. (Painting) Lectr.  
Tapper, G. P. (Painting) Lectr.

**Geography**

- Cumberland, K. B., MA *Lond.*, DSc Prof.  
Fox, J. W., BA *Lond.* Sr. Lectr.  
Farrell, B. H., MA *Wash.*, BA Sr. Lectr.  
Cameron, S. S., MSc Lectr.  
Ward, R. G., MA Lectr.

**Geology**

- Lillie, A. R., MA *Camb.*, DèSc *Geneva* Prof.  
Brothers, R. N., PhD *Lond.*, MSc, FGS  
Searle, E. J., MSc Sr. Lectr.  
Ballance, P. F., BSc *Lond.* Lectr.  
Grant-Mackie, J. A., MSc Lectr.

**German**

- Asher, J. A., MA PhD *Basle*  
Assoc. Prof., Hd. of Dept.  
Marleyn, R., BA *Oxon.*, PhD *Gött.* Lectr.  
Barraclough, H. C. D'E., BA *Melb.*,  
MA *Calif.* Lectr.

**Hebrew**

- Hames, E. W., MA Lectr.

**History**

- Rutherford, J., MA *Durh.*, PhD *Mich.* Prof.  
Airey, W. T. G., BA *Oxon.*, MA Assoc. Prof.  
Sinclair, K., MA PhD Assoc. Prof.  
Chapman, R. M., MA Sr. Lectr.  
Parnaby, O. W., DPhil *Oxon.*, BA *Melb.*  
O'Connor, P. S., BA *Oxon.* & N.Z. Sr. Lectr.  
O'Dowd, Betty M., MA Lectr.

**Law**

- Davis, A. G., LLd *Lond.*, LLB Prof.  
Northey, J. F., DJur *Tor.*, BA LLm  
(Public L.) Prof.  
Sim, P. B. A., LLm Sr. Lectr.  
Whalan, D. J., LLm Sr. Lectr.  
Vautier, M. H., LLm †Lectr.  
Chilwell, M. F., LLm †Lectr.

**Mathematics**

- Chong, F., MA *Camb.*, PhD *Iowa State*,  
MSc *Syd.* Prof.  
Segedin, C. M., PhD *Camb.*, MSc Assoc. Prof.  
Hookings, G. A., MSc *Camb.* & N.Z. Sr. Lectr.  
Kalman, J. A., MA PhD *Harv.* Sr. Lectr.  
Segedin, M. G., MSc *MA Indiana* Sr. Lectr.  
Whale, J. F., MSc Lectr.

**Medicine**

- Carey, H. M., MSc MB BS DGO *Syd.*,  
FRCSEd, FRCOG, FRACS  
(Obstet. & Gynaecol.) Prof.

Green, G. H., BA BSc MB ChB DObst  
(Obstet. & Gynæcol.) Sr. Lectr.  
Kyle, B. V., DGO *Melb.*, MB ChB, FRACS,  
FRCS (Obstet. & Gynæcol.) †Lectr.

**Music**

Nalden, C., MusB *Durh.*, MusD *Lond.* Prof.  
Rive, T. N., MusB Sr. Lectr.  
Tremain, A. R., DMus *Lond.*, MusB Sr. Lectr.  
Hollnrake, R. B., MA *Camb.* Lectr.  
Godfrey, P. D. H., MA MusB *Camb.* Lectr.

**Philosophy**

Anschutz, R. P., PhD *Edin.*, MA Prof.  
Pflaum, K. B., MA *St. And.*, BLitt *Oxon.*  
Ardlev, G. W. R., BA MSc *Melb.* Sr. Lectr.  
Pearson, C. I., MA PhD *Q'ld.* Lectr.  
Ralls, A. E., MA *Oxon.* Lectr.  
Forsman, E. A., MA †Lectr.

**Physics**

Brown, D., PhD *Brist.* Prof.  
Kreiselheimer, K. S., DIng *Darmstadt*,  
FIP Assoc. Prof.  
Collins, E. R., PhD *Birm.*, MSc Assoc. Prof.  
Sagar, F. H., MSc, FIP Assoc. Prof.  
Mawson, D. G., MSc Sr. Lectr.  
Whale, H. A., MSc PhD *Camb.* Sr. Res. Fellow  
Earnshaw, J. B., BSc *Manch.* Lectr.  
Keim, R. F., BA *Camb.*, MSc Lectr.  
Schlup, F., BSc Lectr.  
Lyons, J., BSc *N.U.I.*, MSc DipEd *Belf.* Lectr.  
Titheridge, J. E., MSc Res. Fellow

McCarthy, A. L., MSc Jr. Lectr.  
Thompson, M. A., MSc Jr. Lectr.

**Psychology**

Storm, T., BA *Temple*, MS PhD *Yale* Lectr.  
Anthony, W. S., MA DPhil *Oxon.* Lectr.

**Romance Languages**

Keys, A. C., DU*Paris*, MA Prof.  
West, A. W. H., DU*Paris*, MA Sr. Lectr.  
Hollyman, K. J., DU*Paris*, MA Sr. Lectr.  
Pollard, W. F., MA *Dub.* Lectr.  
Butler, A. S. G., DU*Paris*, MA Lectr.  
Bartocci, G., PhD *Rome* (Italian) Lectr.

**Zoology**

Morton, J. E., DSc PhD *Lond.*, MSc Prof.  
Pendergrast, J. G., PhD *Lond.*, MSc Sr. Lectr.  
Robb, Joan, MSc Sr. Lectr.  
Bergquist, Mrs. Patricia R., MSc Lectr.  
Miller, M., BSc PhD *Liv.* Lectr.  
Cowley, D. R., MSc Lectr.

**ADULT EDUCATION**

Morrison, S. R., MA Dir

**Tutor Organizers**

McMillan, Sheila G., BHSc DipEd  
Bell, C. A., MA DipEd  
Dellow, R. G., MusBac  
Fausett, Mrs. Vera M.  
Bedggood, L. R., MA BSc DipEd  
te Hau, M., BA  
Roy, W. T., MA *Luck.*  
Barker, R. H.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrars : Kathleen Alison, JP, BCom  
(Finance) ; W. M. Milliken, CVO, OBE, LLM  
(Academic) ; C. G. S. Ellis (Buildings). Phys.  
Educn. Officer : ..... Liaison Officer with

Secondary Schools : K. S. Turtill, MA. Warden  
of O'Rorke Hall : ..... ; Warden of Lamb  
House : G. T. Oliver.

**GENERAL INFORMATION**

Establd. by act of the N.Z. legislature in 1882.  
Affiliated as a coll. of the Univ. of N.Z. in 1883.  
In 1885 an endowment of 30,000 acres was made  
available ; one-third of this was sold in 1915.

Lectures were offered in classics, Engl., biol.,  
geol., chem., mechanics, maths. and law at the  
opening of the coll. Others have been developed  
since then as funds and other circumstances have  
permitted. A sp. sch. of engin. was establd. in  
1906, and the sch. of archit. in 1917. In 1950 the  
existing Elam Sch. of Fine Arts was taken over by  
the univ. as a sp. sch. The postgrad. chair in  
obstet. & gynæcol., the first such chair in the  
S. hemisphere, was establd. in 1951, funds for its  
endowment having been raised by public sub-  
scription. The dept. of town planning was

formally approved in 1955, the salary of the 1st  
prof., who took up his duties in 1957, having been  
generously provided by Mr. N. B. Spencer for an  
initial period of 4 yrs.

A branch instn. of the Univ. of Auckland was  
establd. at Hamilton, 80 miles from Auckland.  
Lectures in stage I Engl. and stage I hist. were  
offered during 1960, and it is anticipated that  
further stage I subjs. will be offered in 1961.

**CONSTITUTION.** Under amending legislation of  
Oct. 1957, Auckland Univ. Coll. became the  
Univ. of Auckland, and was designated a con-  
stituent instn. of the Univ. of N.Z. The titles of  
the principal officers were changed to chancellor,  
pro-chancellor and vice-chancellor. The council



comprises 19 members, of whom 3 are apptd. by the governor-general, 2 by the professorial bd., 1 by the Auckland educn. bd., 1 by the Auckland city council, 1 by the executive of the students' assocn. and 6 elected by the grads., 1 by the sub-professorial staff, 2 by members of the House of Representatives and 1 by the principals of secondary schs., together with the vice-chancellor of the univ.

**INCOME (1959).** Total, £467,254 (govt. grants, 83.9 per cent.; fees, 13.1 per cent.; endowment, 0.4 per cent.; other sources, 2.6 per cent.).

**FACULTIES AND DEANS.** *Archit.*, Prof. A. C. Light; *arts*, Prof. S. Musgrove (Engl.); *comm.*, Assoc. Prof. L. W. Holt (accty.); *educn.*, Prof. R. Winterbourn; *engin.*, Prof. A. G. Bogle; *law*, Prof. A. G. Davis; *music*, Prof. C. Nalden; *sci.*, Assoc. Prof. F. H. Sagar (phys.).

**UNIVERSITY PRECINCT.** The univ. is close to the heart of Auckland city and its existing site is too small to allow for adequate devel. Negotiations are in progress for the acquisition of a larger area.

**LOCATION.** The sp. schs. are at some distance from the main bldgs.: sch. of engin. at Ardmore, 20 mls. south of Auckland (tel.: 596-175); sch. of archit., Symonds St. (tel.: 42-746); Elam sch. of fine arts, partly in Symonds St. and Newton West (tel.: 41-271, 15-114).

**LIBRARIES.** Approx. 120,000 vols., incl. the separate librs. of the schs. of archit. and engin., and the Elam sch. of fine arts, the music dept. and various sci. depts. Bot. and geol. librs. incl. collections of uncatalogued reprints. Paterson collection of classics and Old Testament hist. Libr. also has loan collection of about 1000 gramophone records.

**LABORATORIES.** Bot., chem., engin., educn., geol., obstet. & gynæcol., phys., psychol., zool.

**TEACHING HOSPITAL.** National Women's Hosp., controlled by Auckland Hosp. Bd., some 3 mls. from the univ.

**ENTRANCE REQUIREMENTS.** As prescribed by the Univ. of N.Z., see p. 629.

**FIRST DEGREES (of Univ. of N.Z.).** BA, BSc, 3 yrs.; BCom, MusB, 4 yrs.; BE(Civil), BE(Electr), BE(Mech), LLB, BArch, 5 yrs.

**HIGHER DEGREES (of Univ. of N.Z.).** MA,

MSc, MCom, LLM, 1 or 2 yrs.; ME, 2 yrs.; PhD, 2 yrs. from master's degree.

**EXTERNAL DEGREES (of Univ. of N.Z.).** Exemption from attendance at lectures is granted in certain subs. of arts, comm., law, music to students resident in the Auckland Univ. district.

It is not possible to obtain a degree by external study alone.

**DIPLOMAS.** *Univ. of N.Z.*: educn., 1 yr. postgrad. or 2 yrs. undergrad.; obstet. & gynæcol., town planning, each 1 yr. postgrad.; banking, 2 yrs. subject to 5 yrs.' practical experience; music, 3 yrs.; fine arts, 4 yrs., with addtnl. yr. for honrs. *Univ. of Auckland*: urban valuation, educn., psychol., each 2 yrs. postgrad.; executant music, 3 yrs.; archit., 4 yrs.

**POSTGRADUATE COURSES.** The postgrad. sch. of obstet. & gynæcol. offers specialist trg. to candidates for the M.R.C.O.G. and short refresher courses for general practitioners.

**RESEARCH.** Usual res. facilities available in the labs. referred to above. Postgrad. sch. of obstet. & gynæcol. offers sp. facilities for postgrad. work.

**STUDY LEAVE.** Provision is made for periodical refresher leave to enable sr. members of staff to proceed abroad.

**FEES.** Approx. inclusive fees: archit., £112; arts, comm., £50; engin., £123; fine arts, law, £80; music, £32; sci., £68.

**ACADEMIC YEAR.** March to Nov., 3 terms.

**STUDENT RESIDENCES.** O'Rorke Hall, Symonds St. (tel.: 45-562), accomm. 85 m., 75 w. Fees: from £3:6s.: 6d. for rooms shared by 3, to £4:5s. for single rooms; Lamb House, Ardmore Sch. of Engin., accomm. 180 m. Fees: £3:17s.: 6d.

**STUDENT HEALTH SERVICE.** Enrolment by students is voluntary. Interviews and exams conducted by pt.-time med. officer (D. B. Gash, MB ChB, MRCP).

**STUDENTS' ASSOCIATION.** The students' assocn. block is the centre of student activities. It provides common rooms, cafeteria and limited sporting facilities.

**PUBLICATIONS.** *Calendar* (Dec.), 2s. 6d.; *Gazette* (quarterly); *Bulletins* (occasl.); student newspaper, *Craccum*.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: 3 temp. structures totalling about 44,000 sq. ft. for geog.-geol., phys.; the third being 2 gen. purpose tiered lecture theatres seating 250, 350.

**RESIGNATIONS.** Dr. L. Curry (geog.), apptd.

lectr., Maryland Univ.; E. Khamara (philos.), apptd. lectr., Syd.; W. F. Mandle (hist.), apptd. lectr., Adel.

**DEATH.** A. J. C. Fisher, dir., Elam Sch. of Fine Arts.

## Statistics

## STUDENT NUMBERS, 1960

(as at July 1, 1960)

	<i>Full-Time</i>	<i>Part-Time</i>	<i>External</i>
Men . . .	1479	1729	390
Women . . .	516	621	56
<b>Total . . .</b>	<b>1995</b>	<b>2350</b>	<b>446</b>

Distribution by Faculties (excluding external students): *Archit.*, 319; *arts*, 1597; *comm.*, 690; *educn.*, 58; *engin.*, 388; *fine arts*, 181; *law*, 347; *music*, 51; *sci.*, 714. Total: 4345.

Included in the figures above are:—

Postgraduate students, 233.

New admissions, 1314.

Students from other countries, 103. (Countries from which largest numbers came: Pacific Is., 55; S.E. Asia, 40).

DEGREES AWARDED (by Univ. of N.Z.) (1959). *Archit.*: BArch, 8. *Arts*: BA, 108; MA (hons.), 39; MA, 19; PhD, 1. *Comm.*: BCom, 8; MCom, 1. *Engin.*: BE (hons.), 5; BE, 31; ME, 8. *Law*: LLB, 37. *Music*: MusB (hons.), 2; MusB, 1. *Sci.*: BSc, 53; MSc (hons.), 20; MSc, 5; DSc, 1. Total number of first degrees awarded, 253.

DIPLOMAS AWARDED (1959). By Univ. of N.Z.: DipEd, 13; DipFineArts (hons.), 1; DipFineArts, 4; DipJourn, 1; DipMus, 1; DipObst, 9. By Univ. of Auckland: DipArch, 14; ExecDipMus, 2; DipUrbVal, 6.

[Information compiled as at June 1960]

## UNIVERSITY OF CANTERBURY\*

Founded 1873

Postal Address: P.O. Box 1471, Christchurch, C.1, New Zealand

Telephone: Christchurch 65-819

VISITOR—THE MINISTER OF EDUCATION

CHANCELLOR—C. H. PERKINS, BCom

VICE-CHANCELLOR AND RECTOR§—F. J. LLEWELLYN, PhD DSc *Birm.*, FRIC, FNZIC

REGISTRAR—G. G. TURBOTT, MC, BA BCom

LIBRARIAN—C. W. COLLINS, MA, FLA

## TEACHING STAFF

[†=Part-Time]

## Accountancy

.....	Prof.
Battersby, G. B., PhD <i>Lond.</i> , MCom	Lectr.
Hopkins, R. W., BCom	Asst. Lectr.
Anderson, T. E., BCom	†Lectr.
Drake, B. J., BA LLB	†Lectr.
Frampton, K. W., LLB	†Lectr.
Holland, A. D., LLB	†Lectr.
Jensen, K. J., BCom	†Lectr.
Robertson, J. A., BCom LLB	†Lectr.
Scott, L. E., BCom	†Lectr.
Stanley, B. L., LLB	†Lectr.
Thompson, B.	†Lectr.

Sheat, D. E. G., PhD <i>Manc.</i> , MSc	Sr. Lectr.
Mayer, Margaret, DSc	Lectr.
Brownlie, G., MSc	Lectr.
Burrows, C. J., MSc	Asst. Lectr.
.....	Asst. Lectr.

## Chemistry

Packer, J., DIC, MSc <i>Melb.</i> , FRIC, FNZIC	Prof.
Wilkins, C. J., DIC, PhD <i>Lond.</i> , MSc	Reader
Vaughan, J., MSc <i>Wales</i>	Reader
Metcalf, W. S., DPhil <i>Oxon.</i> , MSc MusB	Sr. Lectr.
Penfold, B. R., PhD <i>Camb.</i> , MSc	Sr. Lectr.
Christensen, M. T., MSc PhD	Lectr.
Austin, J. M., MSc PhD	Lectr.
Fischer, A., MSc	Lectr.

## Botany

Philipson, W. R., BA <i>Camb.</i> , PhD <i>Lond.</i>	Prof.
Arnold, B. C., MSc	Sr. Lectr.

\* Associate Member of the Association of Universities of the British Commonwealth.

§ Since this entry was revised, Dr. Llewellyn has been appointed Chairman of the University Grants Committee.

Topsom, R. D., PhD *Lond.*, MSc  
 Fergusson, J. E., PhD *Lond.*, MSc  
 Hartshorn, M. P., BSc *Lond.*

Lectr. McCaskill, M., MA  
 Lectr. Johnston, W. B., MA  
 Lectr. Soons, Jane M., BA *Sheff.*, PhD *Glas.*

Lectr.  
 Lectr.  
 Lectr.  
 Visiting Lectr.

Grigor, B. A., BSc

Asst. Lectr.

### Classics

Kidd, D. A., MA *Aberd. & Camb.*  
 Steven, Marion K., MA MB ChB  
 Sumner, G. V., MA *Oxon.*  
 McGibbon, D. D., MA *St.And.*  
 Hindley, H. N., MA *Camb.*

Prof.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Asst. Lectr.

### Geology

Allan, R. S., PhD *Camb.*, DSc, FRSNZ,  
 FGS  
 Gage, M., DSc  
 Frost, M. J., BSc PhD *W.Aust.*  
 .....  
 .....

Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Economics

Weststrate, C., LLD *Ley.*  
 Danks, A. J., MA  
 Rosenberg, W., MCom, FRANZ  
 Miller, G. M., BA MCom

Prof.  
 Assoc. Prof.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.

### Education

Field, H. E., PhD *Lond.*, MA  
 Ford, C. T., MA  
 Lawrence, P. J., MA PhD  
 Lenz, E. O., BSc *Lond.*, DipEd *Camb.*, MA  
 Small, J. J., PhD *Ohio*, MA  
 Beardsley, Mrs. Nada M., EdM *Philadelphia*,  
 MA

Prof.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.

### Engineering, see below

### English Language and Literature

Garrett, J. C., MA *Alta. & Oxon.*  
 Rhodes, H. W., MA *Melb.*  
 Stockwell, A. W., BLitt *Oxon.*,  
 MA BSc  
 Baigent, L. A., MA  
 Spear, C. E., MA  
 Copland, R. A., MA  
 Turner, G. W., MA  
 Frean, R. G., MA BSc  
 Barrett, C. R., PhD *Berne*, MLitt *Camb.*  
 .....

Prof.  
 Assoc. Prof.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

Greenwood, E. B., MA BLitt *Oxon.*  
 Ruthven, K. K., BA *Manc.*

Asst. Lectr.  
 Asst. Lectr.

### Fine Arts

Clark, R. S.  
 Doudney, E. J.  
 Simpson, H. J.  
 Sutton, W. A., DipFA  
 Oakley, W. J., DipFA  
 Knight, J. N., DipFA  
 Akins, Florence E., DipFA  
 Lovell-Smith, R. de B., DipFA  
 Gopas, R.  
 Taylor, T. J., DipFA

Prof.  
 Sr. Lectr.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.

### Geography

Pownall, L. L., MA PhD

Prof.  
 Sr. Lectr.

### History and Political Science

Phillips, N. C., MA  
 Saunders, J. J., MA *Lond.*  
 Pocock, J. G. A., PhD *Camb.*, MA  
 Gardner, W. J., MA  
 Parker, G. H. W., MA MLitt *Camb.*  
 Catanach, I. J., MA  
 Adshead, S., BA *Oxon.*  
 Steele, E. D., BA *Camb.*

Prof.  
 Sr. Lectr.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.

Young, S. V. R., MA

### Law

Gray, H. R., LLM *Lond.*  
 .....

Prof.  
 Sr. Lectr.

Bowron, R. H., LLB  
 Cuninghame, W. G. P., LLB  
 De Goldi, R. J.  
 Drake, B. J., BA LLB  
 Edgley, R. W., LLB  
 Hewitt, D. J., OBE, LLB  
 Mouat, R. J., BA LLB  
 Sandston, G. C. C., LLB  
 Somers, E. J., BA LLB  
 Taylor, I. W., LLB  
 Wills, E. P., BA LLB MCom  
 Wood, S. H., MLitt *Camb.*, LLB

† Lectr.  
 † Lectr.  
 † Lectr.  
 † Lectr.  
 † Lectr.  
 † Lectr.  
 † Lectr.  
 † Lectr.  
 † Lectr.  
 † Lectr.  
 † Lectr.

### Mathematics

Lawden, D. F., MA *Camb.*  
 Andress, W. R., MA *Camb.*, BSc *Manc.*

Prof.

Assoc. Prof.

De la Bere, J. C. W., MA *Camb.*  
 Long, R. S., BA *Camb.*, MSc  
 Harding, F. Mary, PhD *Edin.*, MA  
 Smith, G. C., BA *Camb.*  
 .....  
 .....  
 .....  
 .....

Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Modern Languages

Sussex, R. T., MA LLB *Melb.*, DU *Paris*  
 Carter, T. E., BA *Leeds*  
 Troup, G. S., LèsL *Poitiers*, MA  
 De Laberbis, E., MA DipEd *Vlad.*,  
 LèsL *Paris*

Prof.  
 Sr. Lectr.  
 Sr. Lectr.  
 Sr. Lectr.

Leov, Nola M., MA  
 Brooks, A. N., MA  
 O'Neill, K. M., MA *Melb.*

Lectr. Smith, S. C. J., ME BSc *Syd.*, BD *Melb.* Lectr.  
 Lectr. . . . . Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**Civil Engineering****Music**

Griffiths, V., OBE, MA MusB *Camb.*,  
 MusD, Hon. FTCL  
 Ritchie, J. A., MusB  
 Toovey, M. H., DMus *Lond.*  
 Stone, D. C., BA *Camb.*  
 Cook, Elizabeth A.  
 Rogers, T. G. H., BA *Camb.*  
 Till, M. A., MA DipMus, FTCL

Prof. Hopkins, H. J., DFC, MA *Oxon.*, BSc  
 BE *W.Aust.*, MICE Prof.  
 Alley, P. J., BE, MNZIE Sr. Lectr.  
 Henderson, F. M., MSc BE Sr. Lectr.  
 Simpson, A. H., BE Sr. Lectr.  
 Williman, A., BSc(Eng) *Lond.*,  
 MScTech *Manc.* Sr. Lectr.  
 Lu, F. P.-S., BSc(Eng) *Shanghai* Sr. Lectr.  
 Giddens, E. P., BE Lectr.  
 Scrivener, J. C., BSc ME Lectr.  
 Shepherd, R., BSc(Eng) *Leeds* Lectr.  
 Yao, K. M., BSc(Eng) *Pei Yang*,  
 MSc(Eng) *N.Carolina* Lectr.  
 Lectr.  
 Lectr.

**Philosophy**

Shorter, J. M., MA *Oxon.*  
 Ziedins, R., MA *Melb.*  
 Thornton, J., MA

Prof. Hadley, J. A., BE Asst. Lectr.  
 Lectr.  
 Lectr.

**Physics**

McLellan, A. G., PhD *Edin.*, MSc  
 Ellyett, C. D., PhD *Manc.*, MSc  
 Roth, K. W., BA  
 Runciman, W. A., BSc *Edin.*  
 Gregory, J. B., MSc PhD  
 Seed, T. J., MSc  
 Keay, C. S. L., MSc  
 Ross, A. W., MA PhD *St.And.*  
 Fraser, G. J., MSc *Camb. & N.Z.*  
 . . . .

Prof. MacElwee, N. M., BSc *Glas.*, MIEE Prof.  
 Reader Neale, R. D., BE, MIEE Sr. Lectr.  
 Sr. Lectr. Bowen, W. H., BSc(Eng) *Lond.*, MIEE Sr. Lectr.  
 Withers, B. T. Sr. Lectr.  
 Woodward, J. L., MASc *Tor.*, BE Sr. Lectr.  
 Sr. Lectr. Stephen, K., BSc(Eng) *Manc.* Sr. Lectr.  
 Lectr. Barth, A. H., ME Lectr.  
 Lectr.

**Mechanical Engineering****Psychology**

Crowther, A., MA PhD *Camb.*  
 Thompson, R. H. T., MA  
 Sampson, H., MA *Br.Col.*, PhD *McG.*  
 Shouksmith, G. A., MA *Edin.*  
 Pollard, J. S., MA

Asst. Lectr. Rastrick, R. J., BE, MIMechE Prof.  
 Adams, H. F. T., MA *Camb.* Assoc. Prof.  
 Hewitt, N. E., BE Sr. Lectr.  
 Prof. Burton, A., BSc(Eng) *Manc.* Sr. Lectr.  
 Sr. Lectr. Rodger, M., BE Sr. Lectr.  
 Sr. Lectr. Stevenson, D. C., BSc BE Sr. Lectr.  
 Sr. Lectr. Whittle, G., BSc(Eng) *Lond.* Sr. Lectr.  
 Lectr. Newstead, W. F. Lectr.  
 Lectr. Fahy, F. W. Lectr.  
 Asst. Lectr. Satterthwaite, C. A., BSc(Eng) *Lond.* Lectr.  
 Lectr. Bewley, N. J., BE Lectr.

**Zoology**

Knox, G. A., BA MSc  
 Pilgrim, R. L. C., PhD *Lond.*, MSc  
 Stonehouse, B., BSc *Lond.*, DPhil *Oxon.*  
 Nurse, Frances R., MSc  
 Stout, Vida M., PhD *Lond.*, MSc  
 Johns, P. M., BA  
 Benzie, Vivienne, BSc  
 Godley, E. J., PhD *Camb.*

Prof. Rutherford, D. W., MA Dir.  
 Sr. Lectr. Clark, I. G., BA Tutor  
 Lectr. Markwell, D. S., MA Tutor  
 Lectr. Smyth, B. W., BCom Tutor  
 Lectr. . . . . Tutor  
 Asst. Lectr. . . . . Tutor  
 Asst. Lectr. . . . . Tutor  
 Hon. Lectr.

**ENGINEERING****Chemical Engineering**

Siemon, S. R., BSc MScApp *Q'ld.*  
 Hagyard, T., BSc PhD *Lond.*

Prof. Weir, Wendy J., DipFA (Arts & Crafts)  
 Sr. Lectr.

**Specialist Tutors**

Worthington, G. A., BA (Drama)  
 Robins, Ray T., BHSc (Home Sci.)  
 Borrie, Ann, DipHSc (Home Sci.)  
 Peach, L. G., MusB (Music)  
 Weir, Wendy J., DipFA (Arts & Crafts)

**ADULT EDUCATION**

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Finance): A. H. H. Martin, JP, BCom LLB. Asst. Registrar (Academic): Mrs. Hester B. Hewitt, BA. Asst. Registrar: . . . . . Liaison Officer with schs.: E. R. Hounsell, MSc. Phys. Educn. Officers: A. S. Lewis, BA; . . . . .

STUDENT RESIDENCES. Warden, Helen Connors Hall (women), J. M. Soons, BA *Sheff.*, PhD *Glas.*; Warden, Rolleston House (men), W. P. Packard, MA.

## GENERAL INFORMATION

Created by provincial ordinance, 1873; affiliated to Univ. of N.Z., 1874. First permanent bldg. opened in June 1877.

The chief special sch., that of engin., has developed greatly since its establ. in 1890. Among the other sp. schs., the sch. of art, opened in 1882, became a fac. of the univ. in 1950; and the sch. of agric., opened at Lincoln in 1880, was administered by the univ. until 1897, when it became a sep. instn. as Canterbury Agric. Coll.

CONSTITUTION. In Oct. 1957 Canterbury Univ. Coll. became the Univ. of Canterbury, a constituent instn. of the Univ. of N.Z., the rector becoming vice-chancellor and rector. Originally vested in a bd. of governors consisting of 23 members who were named and apptd. for life, the govt. of the univ. is now in the control of the univ. council, which consists of the vice-chancellor (*ex officio*) and 18 members apptd. or elected: 3 by the governor-general, 2 by Canterbury members of parliament, 5 by grads. of the univ., 1 by Canterbury primary sch. teachers, 1 by Canterbury post-primary sch. teachers, 1 by Canterbury educn. bd., 2 by the professorial bd., a member representing lectrs., a member representing the students' assocn., and the Mayor of Christchurch. A professorial council, set up in 1877 and reconstituted as the professorial bd. in 1896, includes all profs. and such lectrs. as are apptd. by the council.

INCOME (1959). Total income, £440,838 (govt. grants, 78 per cent.; fees, 12 per cent.; endowments, 4 per cent.; misc., 6 per cent.).

FACULTIES AND DEANS. *Arts*, Prof. N. C. Phillips (hist.); *comm.*, Dr. G. B. Battersby (accty.); *engin.*, Prof. S. R. Siemon (chem. engin.); *law*, Prof. H. R. Gray; *music & fine arts*, Prof. V. Griffiths (music); *sci.*, Prof. G. A. Knox (zool.).

UNIVERSITY PRECINCT. In 1949 the council decided to proceed with the transfer of the univ. to a new site of 150 acres, about 3 mls. from the centre of the city. A siting plan has been adopted which includes bldgs. for the facs. of arts, sci., engin. and fine arts and admin. The first major bldg., that of the sch. of engin., is now occupied. Sketch plans and working drawings for a series of bldgs. to accomm. the chem., phys., zool., bot., geol., maths., geog., psychol. and philos. depts. have now been prepared; bldg. will probably commence in 1961. The sch. of art is establ. on the new site.

LABORATORIES. Bot., chem., engin., educn., geol., phys., psychol., zool.

LIBRARY. Approx. 120,000 vols. The library of the Royal Soc. of N.Z., Canterbury branch, is at present merged with the univ. library. Macmillan Brown collection, approx. 15,000 vols., specializing in the Pacific ocean, anthropol. and ethiol. Deptl. libraries: engin., chem. and several minor collections. About 1200 periodicals.

FACILITIES OF SPECIAL INSTITUTIONS. Univ. of Canterbury industrial development dept.—to handle industrial research.

ENTRANCE REQUIREMENTS. As prescribed by the Univ. of New Zealand, *see* p. 629.

NON-MEMBERS OF THE UNIVERSITY may attend classes if over 16 yrs. of age.

FIRST DEGREES (of Univ. of N.Z.). BA, BCom, BSc pass, 3 yrs. (4th yr. for BSc hon.); MusB pass, hon., 4 yrs.; BE(Civil), BE(Electr.), BE(Mech), BE(Chem) pass, hon., 4 yrs.; LLB, 5 yrs.

BSc pass: 8 units incl. 3 units higher than stage I, one at least a stage III unit. BSc (hons.): 1 yr. sci. inter., then study in subj. of hon. sch. and in 1 major (2 yrs.) and 2 minor (1 yr.) sub-sid. subjs., one a foreign lang. (reading). Subjs. of hon. schs.: biochem., bot., chem., geog., geol., maths., microbiol., phys., physiol., psychol., zool.

HIGHER DEGREES (of Univ. of N.Z.). MA, MCom, LLM, 1 yr. from bachelor's degree; MSc, ME, 2 yrs. from BSc, BE or 1 yr. from BSc (hons.), BE (hons.); PhD, 2 yrs. from master's degree with hon., BSc (hons.), BE (hons.), MusB (hons.). A course of advanced instructn. is provided. The PhD is open to grads. of other univs. who are admitted to status of grad. of Univ. of N.Z.

EXTERNAL DEGREES (of Univ. of N.Z.). Exemption from attendance at lectures granted only in certain subjs. of BA, LLB, BCom, MusB, LLM, MCom to those residing in Canterbury, West Coast and parts of adjoining provinces.

DIPLOMAS. *Univ. of N.Z.*: DipEd, 1 yr. postgrad. or 2 yrs. undergrad.; DipMus, 3 yrs.; DipFA, 4 yrs.; DipFA with hon., 1 yr. from DipFA. *Univ. of Canterbury*: indust. chem. (DIC), 1 yr. from BSc.

RESEARCH. Normal res. facilities available in sci. labs. and opportunity for sp. interests in field subjs. and meteorol.

**STUDY LEAVE.** Refresher leave is granted on salary, and normally a sp. travel grant is provided.

**INCLUSIVE ANNUAL CLASS FEES.** Arts, about £22; sci., about £30; fine arts, about £23; law and comm., about £15; engin., about £35.

**ACADEMIC YEAR.** March to Nov.: 3 terms of 10, 11 and 6 weeks.

**ADULT EDUCATION.** Town and country groups in north, mid and south Canterbury, Buller, and Westland in social and international studies, fine and practical arts, etc.

**'OPEN' POSTGRADUATE AWARDS.** Lord Rutherford memorial res. fellowship, open to grads. of N.Z. Univ. or of any other Commonwealth univ. who have resided in N.Z. for not less than 3 yrs.; offered every 2nd yr.; value approx. £500.

**STUDENT RESIDENCES.** Controlled by univ. (for wardens, see 'Admin. & Other Staff', above): Rolleston House, Worcester St., Christchurch, C.1

(tel.: 79-691) (80 men); Helen Connon Hall, Chester St., Christchurch, C.1 (tel.: 79-651) (66 women). Controlled by reps. of churches but open to members of all religious denominations; Christchurch College, Rolleston Ave., Christchurch, C.1 (tel.: 64-080) (74 men); Bishop Julius Hostel, 10 Cranmer Sq., Christchurch, C.1 (tel.: 70-997) (50 women); Rochester Hall, Bealey Ave., Christchurch (tel.: 65-210) (34 men); Rosary House, 128 Park Tce. (tel.: 70-444) (24 women). Fees per week from approx. £3: 10s. (women) to £4: 10s. (men).

**STUDENT HEALTH SERVICE.** Med. dir. in attendance; voluntary enrolment by students.

**STUDENTS' UNION.** Students' union bldg., centre of student activities and a 'club-house' available to all students.

**PUBLICATIONS.** *Calendar* (Dec.), 5s. Prospectuses of Schs. of Engin. and Art (Feb.), free. Student journal: *Canta*, 13 issues p.a., sub. 5s.; *Gazette*, publd. periodically.

## THE YEAR 1959

**RESIGNATIONS.** Dr. W. H. Oliver (hist.), apptd. sr. lectr. in hist., Wellington; D. J. Benney (maths.), apptd. asst. lectr. in maths., M.I.T.; J. D. Campbell (geol.), apptd. sr. lectr. in geol., Otago; Mrs. Ivy G. Forrester (fine arts), on marriage; J. K. Burtt (accty.), to private practice; J. B. Hindin (accty.), to private practice; P. M. Wilson (accty.), to private practice.

**DEATH.** Prof. E. Percival (prof. of biol., 1929-1953, prof. of zool., 1954-59).

### Statistics

#### STUDENT NUMBERS, 1960

(as at the beginning of the academic year)

	Full-Time	Part-Time	External
Men . . .	1358	1023	115
Women . . .	406	370	29
Total	1764	1393	144

Distribution by Faculties. *Arts*, 1248; *comm.*, 470; *engin.*, 632; *law*, 190; *music & fine arts*, 184; *sci.*, 577. Total: 3301.

*Included in the figures above are:—*

Postgraduate students, 173.

New admissions, 827.

Students from other countries, 43. (Countries from which largest numbers came: Fed. of Malaya, 20; Fiji, 10).

**DEGREES AWARDED (by Univ. of N.Z.) (1959).** *Arts*: BA, 102; MA, 39. *Comm.*: BCom, 7. *Engin.*: BE, 65; BE (hons.), 22; ME, 9. *Law*: LLB, 22; LLM, 1. *Music*: MusD, 1. *Sci.*: BSc, 68; BSc (hons.), 11; MSc, 16. PhD (all facs.): 4. Total number of first degrees awarded, 297.

**DIPLOMAS AWARDED (by Univ. of N.Z.) (1959).** DipEd, 2; DipFA, 18; DipMus, 1.

[Information compiled as at 1/7/60]

## UNIVERSITY OF OTAGO\*

Founded 1869

Postal Address: P.O. Box 56, Dunedin, New Zealand

Cables and Telegrams: University, Dunedin

Telephone: Dunedin 79-561

VISITOR—H.E. THE GOVERNOR-GENERAL OF NEW ZEALAND

CHANCELLOR—Rev. H. J. RYBURN, CMG, BD U.T.S.(N.Y.), MA Oxon. & N.Z.

\* Associate Member of the Association of Universities of the British Commonwealth

VICE-CHANCELLOR—F. G. SOPER, CBE, PhD DSc *Wales*, FRIC, FRSNZ FNZIC

PRO-CHANCELLOR—T. K. SIDEY, LL.M.

HON. TREASURER—C. V. SMITH, CBE

REGISTRAR—J. W. HAYWARD, BCom

LIBRARIAN—.....

## TEACHING STAFF

[†=Part-Time]

### Anthropology

Gathercole, P. W., BA *Camb.*

Lectr.

Ross, H. J., BA LLB

3 Tutors†

†Lectr.

### Bacteriology, see Microbiol.

### Dentistry, see below

### Biochemistry

Edson, N. L., PhD *Camb.*, BMedSc MB

ChB, FRSNZ, FNZIC

Prof.

Batt, R. D., MA DPhil *Oxon.*, MSc PhD,

FRIC

Assoc. Prof.

Hunter, G. J. E., MSc, FRIC

Sr. Lectr.

Cousins, F. B., MSc PhD

Sr. Lectr.

Shaw, D. R. D., DPhil *Oxon.*, MSc PhD

Sr. Lectr.

Macmillan, J. A. C., MB ChB *St.And.*

Lectr.

Berry, M. N., MB ChB

Asst. Lectr.

### Botany

Baylis, G. T. S., DIC, PhD *Lond.*, MSc

Prof.

Slade, Brenda F., PhD *Camb.*, MSc

Sr. Lectr.

Holdsworth, M., DIC, BSc PhD *Lond.*

Sr. Lectr.

Mark, A. F., PhD *Duke*, MSc

Lectr.

### Chemistry

Parton, H. N., PhD *Lond.*, MSc, FNZIC

Prof.

Corbett, R. E., PhD *Camb.*, MSc

Reader

Murray, J., PhD *Camb.*, MSc

Sr. Lectr.

Campbell, A. D., MSc PhD

Sr. Lectr.

Malcolm, G. N., PhD *Manc.*, MSc

Lectr.

Panckhurst, M. H., DPhil *Oxon.*, MSc

Lectr.

PhD

Williamson, A. G., PhD *R'dg.*, MSc

Lectr.

2 Asst. Lectrs.

### Classics

Manton, G. R., MA *Camb.*

Prof.

Hamilton, J. R., MA *Edin.*, BA *Camb.*

Sr. Lectr.

Thornton, Mrs. Agathe H. F., BA *Camb.* &

*Lond.*, PhD *Edin.*

Sr. Lectr.

Green, J. R., BA *Lond.*

Lectr.

### Commerce

.....

Cowan, T. K., MCom

†Ross Lectr.

Valentine, J. A., BCom

†Lectr.

Sinclair, R. S. M., BA MCom DipSocSc

†Lectr.

Tilly, H. S. J., FPAZ

†Lectr.

Gilkison, W. S., BCom, FPAZ

†Lectr.

Govan, J. E., LLB

†Lectr.

### Economics

Williams, J. W., PhD *Lond.*, MCom

Donald Reid Prof.

Bernardelli, H., DPh *Fran.*

Reader

Braae, G. P., MCom

Sr. Lectr.

Poole, W. A., MCom

Asst. Lectr.

### Education

Mitchell, F. W., MA BSc *Adel.*, PhD *Lond.*

Prof.

Hill, C. G. N., PhD *Lond.*, MA DipEd

Sr. Lectr.

Connor, D. V., BA BEd *O'ld.*, PhD *Lond.*

Lectr.

Adams, R. S., MA DipEd

Lectr.

Melvin, K. H., MA DipEd

Lectr.

### English Language and Literature

Horsman, E. A., MA *Oxon.* & *N.Z.*

Prof.

Dalziel, Margaret, DPhil *Oxon.*,

MA *Oxon.* & *N.Z.*

Reader

Cameron, G. M., MA *Lond.* & *N.Z.*

Sr. Lectr.

Robertson, R. T., MA

Lectr.

Maslen, K. I. D., BLitt *Oxon.*, MA

Lectr.

Gibson, C. A., MA

Lectr.

### French, see Mod. Langs.

### Geography

Lister, R. G., BA *Lond.*

Sr. Lectr.-in-Charge

Brockie, W. J., MA *Edin.*

Lectr.

Hargreaves, R. P., MA *Wis.* & *N.Z.*

Lectr.

Forrest, J., MA

Asst. Lectr.

### Geology

Coombs, D. S., PhD *Camb.*, MSc, FGS

Prof.

Campbell, J. D., MSc, FGS

Sr. Lectr.

Hodgson, W. A., BSc PhD *Lond.*

Lectr.

Means, W. D., AB *Harv.*, PhD *Calif.*

Lectr.

### German, see Mod. Langs.

### Hebrew

Geering, Rev. L. G., BD *Melb.Div.Coll.*,

MA

Lectr.

# History

lorrell, W. P., DPhil *Oxon.*, MA Prof.  
oss, A., MC & Bar, PhD *Camb.*, MA Reader  
issen, E. A., MA *Adel.* (Pol. Sci.) Sr. Lectr.  
arsonson, G. S., BEM, MA Lectr.  
ackson, W. K., BA *Nott.* Lectr.  
itchell, A. V., MA *Manc.* Lectr.  
age, Mrs. Dorothy P., MA Asst. Lectr.

# Home Science

regory, Elizabeth, PhD *Lond.*, MHSc, Prof.  
FNZIC  
owbyes, Avice M., BS AM *Col.*, DipHSc (Clothing) Sr. Lectr.  
ckson, Phyllis R., MHSc DipEd (Methods of Teaching) Sr. Lectr.  
ray, Elcanor M., MS *Iowa*, BHSc DipEd (Foods) Sr. Lectr.  
splin, T. (Design) Sr. Lectr.  
lacfarlane, Catherine E., BHSc (Institutional Management) Lectr.  
andells, Yola E., MHSc (Nutrition) Lectr.  
leman, Patricia D., MS *Texas*, DipHSc (Clothing) Lectr.  
binson, Mrs. Marion F., PhD *Camb.*, MHSc (Nutrition) †Lectr.  
nith, Mrs. Jane B., BHSc (Nutrition & Textile Chem.) Asst. Lectr.  
att, Margaret J., BHSc (Clothing) Asst. Lectr.  
ykes, Anne L., BHSc (Foods) Asst. Lectr.  
clntosh, Esme M., DipHSc (Institutional Management) Asst. Lectr.  
acdonald, Fiona (Design) †Asst. Lectr.

# Law

uest, F. W., MA LLM Prof.  
ephens, A. C., LLM (Jurisprud.) †Lectr.  
lan, N. W., LLB (Company L. & Partnership) †Lectr.  
udwell, M. M. (Conveyancing) †Lectr.  
loo, P. B., MA LLM (Roman L.) †Lectr.  
arrowclough, C. B., BA LLB (Conflict of Laws) †Lectr.  
arzon-Siggers, Canon W. A., LLM *Camb.*, MA (Internat. L.) †Lectr.  
ore, J. S. D., LLB (Contracts) †Lectr.  
itchell, M. M., LLB (Procedure & Family L.) †Lectr.  
evill, P. H. W., LLB (Equity, Succession, Administrative L.) †Lectr.  
el, M., ED, LLB (Constitutional L.) †Lectr.  
lden, A. C., BA LLB BCom (Constitutional L.) †Lectr.  
id, W. H., LLM (Land L.) †Lectr.  
ss, H. S., LLB (Criminal L.) †Lectr.  
ok, J. P., LLB (Comm. L. & Property) †Lectr.

# Marine Biology

tham, Elizabeth J., PhD *Camb.*, MSc Sr. Lectr.

# Mathematics, Pure and Applied

Sawyer, D. B., MA *Camb.* Prof.  
Sida, D. W., MSc PhD *Lond.* Sr. Lectr.  
Stoddart, A. W. J., MSc Lectr.  
Wong, W. J., PhD *Harv.*, MSc Lectr.  
Harris, R. P., MSc Asst. Lectr.

# Medicine, see below

# Microbiology

Miles, J. A. R., MA MD BChir *Camb.*, FRACP Prof.  
Marples, Mrs. Mary J., MA *Oxon.*, MD Assoc. Prof.  
Markham, N. P., DPhil *Oxon.*, BSc MB ChB Assoc. Prof.  
Loutit, J. S., BSc PhD *Adel.* Sr. Lectr.  
Fitzgerald, N. W., MSc MB ChB Lectr.

# Mining and Metallurgy

Williams, G. J., DIC, PhD *Lond.*, MSc BE, MNZIE Prof.  
Mackie, J. B., MSc BE FGS (Surveying) Assoc. Prof.  
Buchanan, D. E., BE (Engin.) Sr. Lectr.  
Watson, W. B., MSc (Coal Mining) Sr. Lectr.  
Carter, J. J., BMetE *Melb.* (Metall.) Sr. Lectr.  
Stott, J. B., BSc PhD *Leeds* (Coal Res.) Sr. Lectr.  
Buckenham, M. H., BE (Mineral Engin.) Sr. Lectr.  
Watson, W. W., BE (Metall.) Lectr.  
Shackleton, A. J., BE Hon. Lectr.

# Modern Languages

Herd, E. W., MA *Camb.* Prof.  
Stone, R. G., DU*Paris*, MA (French) Sr. Lectr.  
Trabing, H. G., Staats-examen *Fran.* (German) Lectr.  
..... Lectr.  
Edwards, P. M. H., BA *Br.Col.*, MA *Col.* & *Harv.*, PhD *Penn.* Lectr.  
1 Temp. Asst. Lectr.

# Music

Platt, P., MA BMus BLitt *Oxon.* Blair Prof.  
Harris, L. P., BA MusB Lectr.  
Byars, D. A., MusB Lectr.

# Philosophy and Psychology

Taylor, D., MA DipEd *W.Aust.*, BA *Oxon.*, Hon. MA *Melb.* Prof.  
Durrant, R. G., MA Sr. Lectr.  
Thornton, Rev. H., MA *Edin.* Sr. Lectr.  
Bernardelli, Mrs. Betty M., MA *Camb.* Lectr.  
Toussaint, Juliet F., MA *Edin.*, BA *Oxon.* Lectr.

# Physical Education

Smithells, P. A., MA *Camb.* Assoc. Prof., Dir. of Sch.  
Cameron, P. E., MA Sr. Lectr.  
Carter, J. E. L., PhD *Iowa*, DipPhysEd Lectr.  
Golding, L. Annette, DipPhysEd Lectr.  
3 Asst. Lectrs.



**Physics**

Nimmo, R. R., PhD *Camb.*, MSc, FIP Prof.  
 Dodd, J. N., PhD *Birm.*, MSc Reader  
 Kennedy, W. L., MSc *W.Aust.*,  
 PhD *Purdue* Lectr.  
 Dawber, K. R., MSc *M.I.T.* Lectr.  
 Lectr.

2 Asst. Lectrs.

**Physiology**

McIntyre, A. K., BSc MB BS *Syd.* Prof.  
 Robinson, J. R., MD BChir PhD *Camb.* Assoc. Prof.  
 Satchell, G. H., BSc *Lond.*, PhD *Leeds* Sr. Lectr.  
 Bradley, K., MSc *Manc.* Lectr.  
 Batt, Mrs. Olga D., MB ChB †Lectr.  
 Somjen, G. G., MedDrs *Amst.* Lectr.  
 Veale, J. L., MB ChB Lectr.  
 2 Asst. Lectrs.

**Psychology**, see Philos. and Psychol.**Theology**

Henderson, Rev. J., MA PhD *Edin.* (Theol.) †Lectr.  
 Allan, Rev. J. A., DD *Edin.*, MA (New T.) †Lectr.  
 Haddon, Principal A. I., MA *Melb.*,  
 DD *Butler* (Church Hist.) †Lectr.  
 Geering, Rev. L. G., BD *Melb.Div.Coll.*,  
 MA (Old T.) †Lectr.  
 Rex, Rev. H. H., DrTheol *Tübingen*, MA  
 (Church Hist.) †Lectr.

**Zoology**

Marples, B. J., MA *Oxon.*, MSc *Manc.*,  
 FRSNZ Prof.  
 Brewin, Beryl I., DSc Sr. Lectr.  
 Scott, D., BSc *Aberd.*, PhD *Manc.* Lectr.  
 Perryman, Judith C., BSc *Lond.* Lectr.

**DENTISTRY****Basic Dental Sciences**

Shroff, F. R., DDS Assoc. Prof.  
 Lectr.  
 1 Asst. Lectr.

**Conservative Dentistry**

Warren, J. Le B., MDS *Melb.*, BDS,  
 FDSRCSEd Prof.  
 Chirnside, I. M., DDS Sr. Lectr.  
 Barr, A. M., BDS Lectr.  
 2 Asst. Lectrs.

**Medicine**

Chapman, O. W., MB ChB, MRCP,  
 FRACP †Lectr.

**Oral Medicine and Oral Surgery**

Walsh, Sir John, KBE, MB BS DDS  
*Melb.*, Hon. MDS *N.U.I.*, FDSRCS,  
 FDSRCSEd Prof.  
 Macalister, A. D., DDS Sr. Lectr.

**Orthodontics**

Gresham, A. H., DDS  
 Kean, M. R., MDS  
 Harding, J. F. A., BDS  
 Sr. Lectr.  
 Lectr.  
 Lectr.

**Periodontia**

Cunningham, W. M., MBE, DDS *Tor.*,  
 BDS Sr. Lectr.

**Pharmacology and Therapeutics**

Kilpatrick, J. A., MD, MRCP, FRACP †Lectr.

**Preventive, Public Health and  
Children's Dentistry**

Davies, G. N., DDS Assoc. Prof.  
 King, R. M., MS *Mich.*, BDS †Lectr.

**Prosthetic Dentistry**

Craddock, F. W., MSD *Northwestern*, DDS  
 BA DipEd Prof.  
 Johnston, J. W., BDS Lectr.  
 Stockwell, R. F., BDS Lectr.

**Surgery**

Fitzgerald, H. W., MB ChB, FRCSEd,  
 FRACS †Lectr.

**Dental Hospital Department**

Donaldson, K. I., BDS *Syd.*, FDSRCS  
 Sr. Dent. Surgeon  
 2 Asst. Surgeons

**MEDICINE**

(For Biochem., Microbiol., Physiol., see above)

**Anæsthetics**

Ritchie, J. R., MB ChB, FFARCS †Sr. Lectr.  
 Chisholm, D. I., MB ChB, FFARCS †Lectr.  
 8 Asst. Lectrs.†

**Anatomy**

Adams, W. E., PhD *Leeds*, DSc BMedSc  
 MB ChB, FRSNZ Prof.  
 Schofield, G. C., DPhil *Oxon.*, MD Assoc. Prof.  
 Trotter, W. D., DPhil *Oxon.*, MB ChB Sr. Lectr.  
 Robinson, L. R., MB ChB Sr. Lectr.  
 . . . . . Asst. Lectr.  
 2 Surgeon Demrs.†, 4 Grad. Demrs.†

**Bacteriology**, see Microbiol., above**Biochemistry**, see above**Diagnostic Radiology**

Begg, A. C., MD DDR †Sr. Lectr.  
 . . . . . †Lectr.  
 Jamieson, H. D., MSc  
 (Radiological Phys.) †Lectr.  
 2 Asst. Lectrs.†

**Ear, Nose and Throat**

Wardale, A., MD MS *Lond.*, FRCS,  
FRACS, MRCP †Sr. Lectr.  
Horowitz, S., MD *Vienna*, FRACS,  
FRFPGlas †Lectr.  
3 Asst. Lectrs.†

**Gynæcology and Obstetrics**

Wright, J. L., MB ChB, FRCS, FRCOG,  
FRACS Prof.  
Stewart, Marian, MB ChB, FRCOG,  
MRCPed (Obstet.) †Sr. Lectr.  
Stitchbury, P. C., MB ChB Lectr.  
Fitzgerald, J. P. B., MB ChB BMedSc †Lectr.  
Fraser, R. D., MB ChB †Asst. Lectr.

**Medical Jurisprudence**

D'Ath, E. F., MB ChB, FRACP Prof.

**Medicine**

Smirk, Sir Horace, KBE, MD *Manc.*,  
FRCP, FRACP Mary Glendining Prof.  
Caughey, J. E., MD, FRCP, FRACP  
(Neurol.) †Assoc. Prof.  
Faster, F. N., DPhil *Oxon.*, MSc, FRIC  
(Pharmacol.) Assoc. Prof.  
McGeorge, M., BA MD, MRCP, FRACP  
(Pæd.) †Sr. Lectr.  
Wilson, R. F., MB ChB, MRCP, FRACP  
(TB.) †Sr. Lectr.  
McQueen, E. G., MB BS *Syd.*, MRCP  
(Pharmacol.) Sr. Lectr.  
Ironsides, W., MD *Aberd.*, DPM  
(Psychiatry) †Sr. Lectr.  
Chapman, O. W., MB ChB, MRCP,  
FRACP †Sr. Lectr.  
Lewis, L. S. A., BMedSc MD, MRCP,  
FRACP †Sr. Lectr.  
Hunter, J. D., MB ChB, MRCP †Sr. Lectr.  
MacLeod, E. K., MB ChB, MRCP †Lectr.  
Medlicott, R. W., MB ChB, FRACP  
(Psychiatry) †Lectr.  
Bourne, H., MB BS *Lond.*, DPM †Lectr.  
Kilpatrick, J. A., MD, MRCP †Lectr.  
Begg, N. C., MB ChB, MRCP (Pæd.) †Lectr.  
Stringer, H. C. W., PhD DTM&H *Edin.*,  
MB ChB, MRCPed †Lectr.  
Dobson, J. R. E., MB ChB, DPM  
(Psychiatry) †Lectr.  
Lord, Josephine M., MD *Lond.*, MRCP †Lectr.  
O'Donnell, T. V., MD BMedSc, MRCP †Lectr.  
Renshaw, P. K., MA MB BChir *Camb.*,  
MRCP †Hon. Lectr.  
Highton, T. C., MB ChB *Liv.*, MRCP  
†Hon. Lectr.  
Grimmett, M. R., MSc (Pharmacol.) Asst. Lectr.  
6 Asst. Lectrs.†

**Ophthalmology**

Wilson, R. P., MBE, BSc MB ChB *Edin.*,  
FRCSEd †Assoc. Prof.  
Macdonald, R. G., DOMS *Lond.*, MB  
ChB, FRCSEd, FRACS †Lectr.

Parr, J. C., DOMS *Lond.*, MB ChB, FRCS

†Lectr.  
†Lectr.

**Pathology**

D'Ath, E. F., MB ChB, FRACP Prof.  
Rodda, R. A., MD Sr. Lectr.  
Howie, J. B., DPhil *Oxon.*, MB ChB Sr. Lectr.  
5 Asst. Lectrs.

**Physiology, see above****Preventive and Social Medicine**

Dixon, C. W., MD *Lond.*, DCH DPH Prof.  
Douglas, A. M., MB ChB DPH Sr. Lectr.  
Spears, G. F. S., BA MSc (Stats.) Lectr.  
Walker, N. D., MB ChB DPH Lectr.  
2 Asst. Lectrs.†

**Radio Therapy**

Jerram, C. W. S., MB ChB †Sr. Lectr.  
Ramsay, F. W., MB ChB, FFR †Asst. Lectr.

**Stomatology**

Walsh, Sir John, KBE, MB BS DDS  
*Melb.*, Hon. MDS *N.U.I.*, FDSRCS,  
FDSRCSEd Prof.

**Surgery**

Fraenkel, G. J., MA BM MCh *Oxon.*,  
FRCS, FRACS Prof.  
Zeiss, Irmgard M., DrAgri *Giessen* Res. Asst.  
Nisbet, N. W., LDS, FRCSEd  
(Orthop. S.) †Assoc. Prof.  
James, J. A., MB BS *Melb.*, FRACS  
(Neurosurg.) †Sr. Lectr.  
Pearse, V. T., MC, MB ChB, FRCS,  
FRACS †Sr. Lectr.  
Fitzgerald, H. W., MB ChB, FRCSEd,  
FRACS (Orthop. S.) †Sr. Lectr.  
Wilson, S. L., DSO, MB ChB, FRCS,  
FRACS †Sr. Lectr.  
Borrie, J., MBE, MB ChM, FRCS,  
FRACS (Thoracic S.) †Sr. Lectr.  
Robinson, R. G., GM, MB BS *Lond.*, ChM,  
FRCS, FRACS (Neurosurg.) †Sr. Lectr.  
Dawson, E. O., MB ChB, FRCSEd,  
FRACS †Lectr.  
Alldred, A. J., MB ChB, FRCS, FRACS  
(Orthop. S.) †Lectr.  
Ludbrook, J., MB ChB BMedSc, FRCS †Lectr.  
6 Asst. Lectrs.†

**Therapeutics**

Sayers, E. G., CMG, MD, FRCP, FRACP,  
Hon. FACP, Hon. FRCSEd Prof.

**Branch Medical Faculties**

*Christchurch*: Landreth, J. F., MB ChB, FRCP,  
FRACP (Sub-Dean), with sr. staff mem-  
bers of Christchurch Public Hosp. *Wellington*:  
Mercer, J. O., CBE, MB ChB, FRCP,

FRACP (Sub-Dean), with sr. staff members of Wellington Public Hosp. *Auckland*: Henley, W. E., MBE, MA DM *Oxon.*, MRCP, FRACP (Sub-Dean), with sr. staff members of Auckland Public Hosp.

McKenzie, E. D., MusB  
 Skinner, A. N.  
 Palmer, M., MA  
 Blackmore, H. S., MA

(Music) Tutor  
 Tutor  
 Tutor  
 Tutor

### ADULT EDUCATION

Hall, D. O. W., MA *Camb.* Dir.  
 Entwistle, A. R., MA *Oxon.* Tutor  
 Kennedy, R. F. (Drama) Tutor

Home Science Extension Tutors  
 Carpenter, Emily E., BHSc  
 Du Toit, Mrs. Kathleen  
 Howe, Edna J., DipDomSc *Leic.*  
 King, Judith M., MSc *Ohio*, BHSc  
 Gourley, Sheran L., DipHSc

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Finance): G. M. Broad, BCom. Asst. Registrar (Academic): Jean M. Riley, MBE, MA. Accountant: H. L. Gregg, BCom. Sec., Med. Fac.: J. H. Scott, BEM, BA BCom. Sec., Dent. Fac.: R. W. Foster, BCom. Dep. Librarian: E. Joy Robinson, MA. Med. Sch. Librarian: H. D. Erlam, BA. Sub-Librarians: D. G. Esplin, BA; Agnes L. Henderson, BA; Mrs. Gloria M. Strathern, BA; J. F. Dennison, MA. Liaison Officer with Schools & Dean of Students: B. H. Howard, MA LittD. Dir., Student Health Service: Prof. C. W. Dixon, MD *Lond.*, DCH DPH. Accom-

modation Officer: E. W. Low, BA. Wardens of Student Hostels: Studholme House, Prof. Elizabeth Gregory, PhD *Lond.*, MHSc, FNZIC, Selwyn College, Rev. Canon D. S. Millar, MA; Knox College, Rev. H. J. Ryburn, CMG, BD U.T.S.(N.Y.), MA *Oxon.* & N.Z.; St. Margaret's College, Vida M. Barron, MBE, MA; Carrington Hall, Rev. L. H. Jenkins, BD; Arana Hall, Rev. W. C. Somerville, BSc PhD *Edin.*; Dominican Hall, Mother Superior—Mother St. James, Aquinas Hall, Rector—Very Rev. Fr. Prior Fitzgerald.

## GENERAL INFORMATION

Founded by ordinance of the Otago provincial council in 1869, with power to grant degrees in arts, med., law and music, the univ. was opened in 1871. By an agreement effected in 1874 the univ. agreed to hold in abeyance its power of granting degrees, and to become affiliated to the Univ. of New Zealand, in which it ranks as one of the four constituent instns. The law fac. originated in 1873, the med. sch. in 1874, the sch. of mines in 1878, the dent. sch. in 1907, accountancy lectures and the sch. of home sci. in 1911, the theol. fac. in 1945 and the sch. of physical educn. in 1948.

**CONSTITUTION.** The govt. of the univ. is vested in the council, on which are represented the professorial bd., teaching staff, students' assocn., grads. (convocation) and a number of educational and other bodies; the governor-general-in-council nominates two members. The council is advised on academic matters by the professorial bd.

**INCOME (1959).** Gen. univ. funds, £633,402 (govt. grants, 80 per cent.; student fees, 9 per cent.; endowment lands, gifts, bequests, 2 per cent.; other sources, 9 per cent.); res. scholps. and sp. funds, £179,695; allied instns. (adult educn.), £29,029; total: £842,126.

**FACULTIES AND DEANS.** *Arts & music*, Dr. A. Ross (hist.); *comm.* (acting), T. K. Cowan (acctg.); *dent.*, Prof. Sir John Walsh (oral surg.); *home sci.*, Prof. Elizabeth Gregory; *law*, Prof. F. W. Guest; *med.*, Prof. E. G. Sayers (therapeutics); *mining &*

*metall.*, Prof. G. J. Williams; *sci.*, Prof. H. N. Parton (chem.); *theol.*, Rev. Dr. J. Henderson. *Sch. of phys. educn.*, dir.: Assoc. Prof. P. A. Smithells.

**UNIVERSITY PRECINCT.** The main bldgs. are on the original univ. site, but the med. sch. has developed so as to be nr. the Dunedin hosp. about  $\frac{1}{2}$  ml. from the univ. site. The devel. of new bldgs. is being planned so that a continuous univ. precinct will link these 2 sections, using an existing public reserve on which the Otago museum stands. The whole area is in a residential district close to the shopping area of the town and the regional planning authority of the city council has approved the univ. plans and zoned the area accordingly. The univ. district incl. the city of Dunedin (pop. 100,400), comprises the provincial district of Otago (pop. 262,500), but students in considerable number come from all parts of N.Z. to attend the sp. schs.

**LIBRARIES.** Main library, incl. deptl. and clas libraries, 172,000 vols.; med. library, 40,000 vols.; also the Hocken collection of 23,000 books pamphlets and a large collection of MSS. relating to hist. of N.Z. and the Pacific.

**LABORATORIES, MUSEUMS, FIELD STATIONS** Labs. in all sci., med., dent., mining and home sci. depts. (see Teaching Staff). Deptl. museum in anat., pathol. and geol. Marine biological lab. Portobello (10 miles from Dunedin).

**TEACHING HOSPITALS.** Dunedin Public; Wakari; Queen Mary Maternity; Parkside; Ashburn Hall (psychiatric); Seaclyff Mental; Christchurch Public; Princess Margaret; Cashmere; Burwood; Sunnyside Mental; Wellington Public; Hutt; Auckland Public; and in Auckland city, Cornwall, Greenlane, Middlemore, National Women's.

**ENTRANCE REQUIREMENTS** (see Univ. of New Zealand—p. 629). Special conditions govern entrance to professional classes in the facs. of med. and dent., in which annual admissions are limited to 120 and 60 respectively, and entrance to the sch. of physical educn., which admits up to 50 students annually. Non-members of the univ., if over 16 yrs. of age, are admissible to most classes.

**FIRST DEGREES** (of Univ. of N.Z.). BA, BSc—3 yrs.; BSc hons., BCom, MusB, BHSc, LLB, BE mining & metall., BPharm—4 yrs.; BDS—5 yrs.; BMedSc—4 or 5 yrs.; MB ChB—6 yrs.

**HIGHER DEGREES** (of Univ. of N.Z.). MA, MCom, MHSc, LLM, ME, MDS, MMedSc—1 yr. from corresp. bachelor's degree; MSc—2 yrs. from BSc; BD—2 yrs. from 1st degree (all facs.); PhD—2 yrs. from 1st degree (all facs. except dent. and div.). Courses of instrcn. provided for these degrees except PhD for which facilities for supervised res. available. A 4 yrs. course of pt.-time study and res. required for members of staff proceeding to PhD. The degrees of ChM, MD and DDS, together with other doctorates of the Univ. of N.Z. (see p. 590), may be earned without attendance or res. within the univ. Grads. of other univs. are accepted as candidates for higher degrees by the Univ. of N.Z. if their qualifs. are deemed to be of equivalent standard.

**EXTERNAL DEGREES** (of Univ. of N.Z.). Extramural students are accepted only in certain courses (notably arts, comm. and law) and must reside within the Univ. of Otago district, comprising the provincial district of Otago.

**DIPLOMAS, CERTIFICATES, ETC.** Univ. of N.Z.: DipEd, DPH, DipMicr—1 yr.; DipMus—3 yrs. Univ. of Otago: courses for dipls. in land & mine surveying (3 yrs.), home sci. (3 yrs.), phys. educn. (3 yrs.); course for cert. in statistics (1 yr.); postgrad.: dipl. of diagnostic radiol. (2 yrs.), assoc. of Otago Sch. of Mines (thesis).

**SPECIAL RESEARCH FACILITIES.** Labs. of the med. res. council of N.Z., the British Empire cancer campaign (N.Z. branch), Empire rheumatism council and Travis trust (tuberculosis res.) are housed in med. and dent. sch. bldgs., and administered through the univ. Sp. coal res. labs. are associated with the sch. of mines. Hydatids res., under grant from the N.Z. govt., is associated with the sch. of med. A list of publications by members of staff and students appears in the annual Univ. Calendar.

**STUDY LEAVE.** Refresher leave is granted on salary, and normally a special travel grant is pro-

vided. In general, the council will regard as eligible for long leave (3 terms) an applicant who has completed 6 yrs. service before departure, and as eligible for short leave (2 terms) an applicant who departs during or after the last term of the 5th yr. of service.

**FEES** (approx.) for the course. Arts (3 yrs.), £55 (4th yr. for MA extra, £9: 9s.); sci. (3 yrs.), £70 (4th yr. for MSc extra, £12: 12s.); law (5 yrs.), £85; comm. (4 yrs.), £50; mining & metall. (BE) (4 yrs.), £175; home sci., dipl. (3 yrs.), £110, BHSc (4 yrs.), £145 (5th yr. for MHSc extra, £12: 12s.); med. (6 yrs.), £235; dent. (5 yrs.), £230; phys. educn. (3 yrs.), £100.

Exam. fees (not incl. above) up to £12 per yr.

**ACADEMIC YEAR.** March to Nov.: 3 terms of 9, 11, 6 weeks.

**ADULT EDUCATION.** This dept., financed through natnl. council of educn., undertakes general tutorial classes in Dunedin and Invercargill, and in country districts throughout the provinces of Otago and Southland. Through these, and specialized work carried out by drama, music and home sci. extension tutors, community activities and appreciation of the arts are developed. Special short 'summer schools' in poetry, drama and flower arrangement have been held, but no regular vacation courses are offered.

**AWARDS.** No 'open' awards.

**GRADUATES' ASSOCIATION.** Univ. of Otago graduates' assocn. publishes annually a *Vice-Chancellor's Newsletter to Graduates*.

**STUDENT RESIDENCES** (for wardens see 'Administrative and Other Staff', above). (Fees: from £4 to £5 per wk.) Selwyn Coll., Castle St., Dunedin, N.1 (tel.: 88-326) (Anglican), 90 men; Knox Coll., Opoho, Dunedin, N.E.1 (tel.: 39-102) (Presbyterian), 111 men; St. Margaret's Coll., Leith St., Dunedin, N.1 (tel.: 77-030) (Presbyterian), 122 women; Arana Hall, 110 Clyde St., Dunedin, N.1 (tel.: 78-135) (inter-denominational), 100 men; Carrington Hall, 57 Heriot Row, Dunedin, N.1 (tel.: 78-512) (inter-denominational), 57 men and 48 women; Dominican Hall, 44 Park St., Dunedin, N.1 (tel.: 70-388) (Catholic), 46 women; Studholme House, Clyde St., Dunedin (tel.: 80-891), 68 home sci. students; Aquinas Hall, 74 Gladstone Rd., Dunedin (tel.: 39-003) (Catholic), 85 men.

**STAFF RESIDENCES.** Temp. housing for new members of staff arranged by a sp. cttee. of univ. council.

**O.U. MEDICAL COMPANY.** Two weeks' annual camp, and day parades each term.

**STUDENT HEALTH SERVICE.** Administered by prev. med. dept. of med. sch.; voluntary enrolment by students allows for periodical health assessments and discussions as well as sickness care.

**STUDENTS' UNION.** The Otago univ. students' assoc. has offices in the union bldg. which contains

a univ. hall, rooms for student societies, common rooms for men and women, locker rooms, a cafeteria and a miniature theatre.

PUBLICATIONS. *Calendar* (Dec.), 5s.; G. E. Thomson, *A History of the Univ. of Otago, 1869-1919*, o/p; D. W. Carmalt-Jones, *Annals of Univ. of Otago Med. School, 1875-1939*, o/p; *Proceedings of Otago Med. School Research Soc.* (annual); *Fac. Handbooks* (dent., home sci., phys. educn.); *Bulletin* (technol.); *Guide to*

*Portobello Aquarium*; *Studies in the Univ. of Otago*; home sci. extension and adult educn. dept. *Bulletins* (appear irregularly); inaugural and other lectures; student publications—*Critic* (fortnightly); *Review* (annual); *Digest* (medical, annual); *Science Record* (annual); *Dentago* (annual).

UNIV. OF OTAGO PRESS. Founded 1958; publicns. include inaugural and other lectures.

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Anon. bequest, £22,815 to found Robert Burns fellowship.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: new union.

NEW CHAIRS. Personal chairs: law (F. W. Guest); therapeutics (E. G. Sayers).

RETIREMENTS. Mrs. Eileen M. Chapman (prev. med.); Dr. A. Perry (obstet. & gynæcol.); N. C. Speight (surg.); Dr. H. M. S. Thomson (home sci.).

RESIGNATIONS. Dr. D. F. Bacon (biochem.), apptd. assoc. prof., Rutgers Inst., N.J.; Dr. G. Blake-Palmer (mental dis.), apptd. dir., div. mental hyg., health dept.; Dr. L. O. Brown (phys.), apptd. sr. lectr., Canberra U.C.; Dr. A. S. G. Butler (French), apptd. lectr. in French, Auckland; Dr. W. C. Durning (dent. sci.), apptd. asst. prof. anat., Puerto Rico; Dr. W. G. H. Edwards (chem.), apptd. to chair of chem., Malta; D. Hamilton (geol.), to res., R'dg.; P. Havard-Williams (librarian), apptd. dep. librarian, Leeds; E. R. Hodgson (phys.), to post-primary teaching, since apptd. sr. lectr. (phys.), Massey Agric. Coll.; Dr. R. G. Kulka (biochem.), to post-doctoral fellowship (biochem.), Western Reserve; Dr. W. MacBain (French), apptd. sr. lectr. French, Melb.; Dr. T. M. Morrison (bot.), apptd. sr. lectr., Canterbury Agric. Coll.; Dr. D. J. Perry (pathol.), to private practice; P. N. D. Pirie (geog.), apptd. res. scholar, A.N.U.; H. F. Symmons (phys.), apptd. to res. staff, Syd.; J. Wallace (phys. educn.), to teacher trg., London; Dr. A. J. R. White (geol.), apptd. sr. lectr., Canberra U.C.; Dr. J. D. Whitehead (phys.), apptd. res. fellow (electr. engin.), Syd.

DEATHS. Prof. G. C. Billing (prof. of econ. and

dean, fac. of comm.); Assoc. Prof. F. A. Denz (chem. pathol.).

### Statistics

#### STUDENT NUMBERS, 1960

	Full-Time	Part-Time	External
Men . . .	1403	469	146
Women . . .	608	185	27
Total . . .	2011	654	173*

Distribution by Faculties. *Arts & music*, 744; *comm.*, 300; *dent.*, 165; *div.*, 18; *engin.*, 39; *home sci.*, 174; *law*, 122; *med.*, 558; *phys. educn.*, 96; *physiotherapy*, 66; *radiography*, 9; *sci. (inc. inter.)*, 546. Total: 2837.

Included in the figures above are:—

Postgraduate students, 193.

New admissions, 588.

Students from other countries, 93. (Countries from which largest numbers came: S.E. Asia, 56; Pacific area, 30).

DEGREES AWARDED (by Univ. of N.Z.) (1959). *Arts*: BA, 51; MA, 22; PhD, 2. *Comm.*: BCom, 6. *Dent.*: BDS, 33; MDS, 1. *Div.*: BD, 4. *Engin.*: BE, 5; ME, 1. *Home sci.*: BHSc, 7. *Law*: LLB, 10. *Med.*: BMedSc, 3; MB ChB, 88; ChM, 1; MD, 9. *Sci.*: BSc, 39; MSc, 11; PhD, 4. Total number of first degrees awarded, 246.

DIPLOMAS AWARDED (1959). By Univ. of N.Z.: DipHons, 1; DPH, 3; DipMicr, 2; DipMus, 1. By Univ. of Otago: DDR, 2; DipHSc, 34; DipPhysEd, 16; AOSM, 3.

CERTIFICATES AWARDED (1959). Stats., 4.

\* Inc. 22 students receiving extra-mural tuition from Palmerston North Univ. Coll.

# VICTORIA UNIVERSITY OF WELLINGTON\*

Founded 1897

Postal Address : P.O. Box 196, Wellington, C.I., New Zealand

Telephone : 46-046

VISITOR—THE MINISTER OF EDUCATION

CHANCELLOR—T. D. M. STOUT, CBE, DSO, ChM, FRCS

VICE-CHANCELLOR—J. WILLIAMS, PhD Hon. LL.D. *Camb.*, LL.M.

REGISTRAR—L. O. DESBOROUGH, B.Com.

LIBRARIAN—H. G. MILLER, MA

## TEACHING STAFF

[†=Part-Time]

### Accountancy

Rodger, W. G., OBE, JP, B.Com, FPANZ,  
FIANZ, FCIS  
(Accounting III & Auditing) Hd. of Dept.  
Carrington, A. S., B.Com, FRANZ,  
FCIS  
Tavler, D. de P., B.Com (Accounting) †Lectr.  
Burton, R. C. C., LL.M. (Comml. Law) †Lectr.  
Donovan, E. A. †Lectr.  
Greig, L. M., LL.B. †Lectr.  
Little, A. G., FPANZ †Lectr.  
Mathews, R. G., M.Com †Lectr.  
Stacey, J. S., M.Com, FPANZ †Lectr.  
Steele, R. W., B.Com, FPANZ †Lectr.  
Turner, T. A., JP, FRANZ †Lectr.  
Miller, J. W., FRANZ †Lectr.

Segal, W., MSc PhD *Melb.* Lectr.  
Alct, Iivi R., MSc Jr. Lectr.  
House, D. A., MSc Jr. Lectr.

### Classics

Murray, H. A., MA *Aberd.*, BA *Camb.* Prof.  
Kalfas, Denise D. H., MA *Syd.* & *Oxon.*,  
DipClassArchæol *Oxon.* Sr. Lectr.  
McKay, K. I., BA *Syd.*, MA *Camb.* Lectr.  
Morgan, M. G., BA *Exe.* Lectr.  
..... Lectr.

### Economics

Holmes, F. W., MA T. G. Macarthy Prof.  
Gould, J. D., BA *Lond.*, MA *Brist.* Sr. Lectr.  
Rowe, J. W., MA BSc Sr. Lectr.  
Baker, J. V. T., MA M.Com †Lectr.  
Vautier, C., M.Com BA PhD Lectr.

### Asian Studies

Palmier, L. H., BSc(Econ) PhD *Lond.*  
Assoc. Prof.

### Botany

Gordon, H. D., BSc PhD *Edin.* Prof.  
Gibbs, J. G., PhD *Minn.*, MAgr Sr. Lectr.  
Dawson, J. W., MA Lectr.  
Taylor, Grace M., MSc Jr. Lectr.

### Chemistry

Slater, S. N., DPhil *Oxon.*, MSc, FRIC Prof.  
England, B. D., MSc PhD *Lond.* Sr. Lectr.  
Truscoe, R., MSc *Lond.*, PhD *Warsaw* Sr. Lectr.  
Harvey, W. E., PhD *Camb.*, MSc Sr. Lectr.  
Wilson, A. T., PhD *Calif.*, MSc Lectr.  
Dasent, W. E., MSc Lectr.  
Matheson, R. A., MSc PhD Lectr.  
Curtis, N. F., MSc PhD Lectr.  
Briggs, M. H., BSc *Liv.*, MS *Corn.* Lectr.

### Education

Bailey, C. L., MA DipEd Prof.  
Somerset, H. C. D., MA Assoc. Prof.  
Fieldhouse, A. E., PhD *Lond.*,  
MA DipEd Assoc. Prof.  
Stroobant, R. E., MA Sr. Lectr.  
McLaren, I. A., AM *Chic.*, MA Lectr.  
Ma'ia'i, Fanaafi, MA Lectr.

### English Language and Literature

Gordon, I. A., MA PhD *Edin.*, LL.D. *Brist.* Prof.  
Stevens, Joan, MA *Oxon.* & *N.Z.* Assoc. Prof.  
Cochran, A. B., MA *Oxon.* & *N.Z.* Sr. Lectr.  
Bertram, J. M., MA *Oxon.* & *N.Z.* Sr. Lectr.  
Culliford, S. G., DSO, PhD *Lond.*, MA  
Harty, Lenore, BA *Oxon.*, MA Lectr.  
Wright, J., MA Lectr.

Associate Member of the Association of Universities of the British Commonwealth

Johnston, S. F. W., MA  
Orsman, H. W., MA  
McKenzie, D. F., MA  
Bowley, C. C., MA  
Fowler, J., MA

**French**, see Mod. Langs.

### Geography

Buchanan, K. M., BA *Birm.*  
McKenzie, D. W., MSc  
Franklin, S. H., BCom *Birm.*  
Wheeler, R. H., MA  
Watters, R. F., MA PhD  
Macnab, J. W., MSc *Lond.*, BSc

### Geology

Clark, R. H., PhD *Edin.*, MSc, FGS  
Bradley, J., DipEd DSc *Durh.*  
Wellman, H. W., DSc  
Lauder, W. R., BE MSc  
Vella, P. P., MSc

**German**, see Mod. Langs.

### History

Wood, F. L. W., MA *Oxon.*, BA *Syd.*  
Beaglehole, J. C., CMG, PhD *Lond.*, MA  
(Colonial H.) Res. Fellow, Lectr.  
Munz, P., PhD *Camb.*, MA  
Oliver, W. H., DPhil *Oxon.*, MA  
Boyd, Mrs. Mary B., MA  
Avery, Margaret E., MA *Lond.*  
Beaglehole, T. H., BA *Camb.*, MA  
Miller, H. G., MA

**Italian**, see Mod. Langs.

### Law, English and New Zealand

Campbell, I. D., LL.M.  
Inglis, B. D., BA LL.M.  
Barton, G. P., PhD BA LL.M.  
Birks, W. R., LL.M.  
Eichelbaum, J. T., LL.B.  
Kurta, L. M., LL.B.

### Law, Roman, etc.

Aikman, C. C., PhD *Lond.*, LL.M.  
Ferneyhough, C. J., LL.B.

### Mathematics

Campbell, J. T., PhD *Edin.*, MA  
Seelye, C. J., PhD *Edin.*, MSc  
Burns, J. C., BA *Camb.*, PhD *Manc.*  
Patterson, D., MA MSc  
Harvie, D. C., MSc  
Malcolm, W. G., MA  
Renner, R. M., MSc  
Harper, J. F., MSc

Lectr.  
Lectr.  
Lectr.  
Jr. Lectr.  
Jr. Lectr.

### Modern Languages

Conlon, P. M., DUParis, MA  
Huntington, Frances M., MA  
Carrad, D. B., MA *Oxon.*  
Stone, R. G., Dipl *Inst.dePhon.,Paris*,  
MA  
Ellis, B. W., BA *Adel.*, DUParis  
Sorani, A. (Italian)  
Danilow, N., PhD DrJur *Vienna*, MA  
Hoffmann, P., PhD *Vienna*, MA  
(German)  
Gronwall, M. H., MA

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Jr. Lectr.

### Music

Page, F. J., MusB  
Lilburn, D. G.  
Farquhar, D., BA *Camb. & N.Z.*, MusB  
Nielsen, Margaret A., MA *Calif.*, MusB

Prof.  
Sr. Lectr.  
Lectr.  
Jr. Lectr.

### Philosophy

Hughes, Rev. G. E., MA *Glas.*  
Hudson, H., MA  
Londey, D. G., PhD *Melb.*  
Lloyd-Thomas, D. A., MA

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.

### Physics

Walker, D., PhD *Birm.*, MSc  
Peddie, G. A., MA  
Bull, C. B. B., BSc PhD *Birm.*  
Hooton, D. J., PhD *Edin.*, MSc  
(Theoret. P.)  
Collings, E. W., MSc PhD  
Humphrey, R. W., MSc  
Chapman, N. G., MSc PhD  
Gellen, J. W., MSc  
Barnes, D. J., MSc

Prof.  
Assoc. Prof.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Jr. Lectr.

### Political Science and Public Administration, School of

Scott, K. J., MA LLB DPA  
.....  
Brookes, R. H., BSc(Econ) *Lond.*  
Roberts, J. L., LLB DPA  
(Pub. Admin.)  
Harrison, R. J., BSc(Econ) *Lond.*, BA *De Pauw*  
.....

Prof.  
Assoc. Prof.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Jr. Lectr.

### Psychology

Beaglehole, E., PhD LitD *Lond.*, MA,  
FRSNZ  
Adcock, C. J., PhD *Lond.*, MA  
Ritchie, J. E., BA  
Mangan, G. L., MA DipEd PhD  
Quartermain, D., BA  
Vaughan, G. M., MA

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Jr. Lectr.  
Jr. Lectr.

**Russian**, see Mod. Langs.

### Social Science, School of

Minn, W. G., MA *Camb.*  
McCreary, J. R., MA  
Robb, J. H., MA BSc(Econ) PhD *Lond.*

Prof.-in-Charge  
Sr. Lectr.  
Sr. Lectr.

VandenBerg, Dorothy M., MA  
Thompson, A. W. S., MB ChB  
Taylor, N. R., LLB

Lectr.  
†Lectr.  
†Lectr.

Cook, W. C., BA MCom Tutor-Organizer  
Easterbrook-Smith, W. H. B., BA  
Haig, N. T., BA Tutor-Organizer  
Garrett, D., BA Tutor-Organizer  
Williams, A. T., BA Tutor-Organizer

### Zoology and Biology

Richardson, L. R., PhD MSc McG. Prof.  
Fell, H. B., PhD *Edin.*, DSc Assoc. Prof.  
Salmon, J. T., DSc (Biol.) Sr. Lectr.  
Ralph, Patricia M., MSc Sr. Lectr.  
Garrick, J. A. E., MSc Lectr.  
Balham, R. W., MA PhD Lectr.  
Castle, P. H. J., MSc Jr. Lectr.

### Specialist Tutors

Martin, Nancy (Music)  
Stocker, Kate (Drama)  
King, Nancy M., DipHSc (Home Sci.)  
Laird, J. D. (Arts & Crafts)  
Brown, Mrs. Joan (Home Sci.)  
Parker, W. (Maori Adult Educn.)  
Atkinson, Jane M. (Music)

### ADULT EDUCATION

Dakin, J. C., MA *Oxon.*, BA Dir.

## ADMINISTRATIVE AND OTHER STAFF

Liaison Officer with post-primary schs.: R. Hogg, MA. Phys. Educn. Instr.: W. H. Landreth.  
Warden, Weir House: I. A. McLaren, AM *Chic.*, MA

## ASSOCIATED COLLEGE

PALMERSTON NORTH UNIVERSITY COLLEGE, P.O. Box 644, Palmerston North. Establd. 1960.

STAFF. Principal: S. G. Culliford, PhD *London*, MA DipEd. EDUCN.: A. Cooper, MA DipEd, P. S. Freyberg, MA DipEd DipJ, Lectrs. ENGL.: J. R. Tye, MA *Oxon.*, Sr. Lectr.;

P. C. M. Alcock, MA DipJ, D. M. Anderson, BLitt *Oxon.*, MA, Lectrs. GEOG.: B. G. R. Saunders, BA *N.Staffs.*, DipEd *Adel.*, E. C. R. Warr, MSc(Econ) *London*, Lectrs. HIST.: J. R. M. Owens, MA *Oxon.*, Lucie Halberstam, MA, Lectrs. MATHS.: G. U. Whitehead, MA *Camb.*, Lectr. Margaret Hall, BA, Librarian. A. C. Watts, Sec.

## GENERAL INFORMATION

Victoria Univ. of Wellington was establd. in 1957 by an amendment act which reconstituted Victoria Univ. Coll. and declared the univ. to be a constituent instn. of the Univ. of N.Z. The former instn., Victoria Univ. Coll., was the last of the 4 main constituent colls. of the Univ. of N.Z. to be establd. It thus completed, apart from special provision for agric. teaching, the general structure of the country's instns. for univ. work. In 1887 Sir Robert Stout, then premier, introduced a bill to found a coll. serving the Wellington, Hawke's Bay and Taranaki districts. It was Stout's hope that the Wellington coll., being at the seat of govt. and of the court of appeal, might specialize in the teaching of law, pol. sci. and hist., as well as in some depts. of sci. The bill passed the house of representatives, but was shelved by the legislative council. A new ministry coming into office in 1888, the matter lapsed for 7 more yrs., in spite of the constant urgings of the univ. senate and court of convocation. In 1894 Stout again came forward with a 'Middle District of New Zealand Univ. Coll. Bill'—the Middle District now comprising not merely Wellington, Hawke's Bay and Taranaki, but Nelson, Marlborough and Westland as well. No provision could be made in a private member's bill for the expenditure of money and though the bill was

finally passed and the govt. even apptd. certain members of a coll. council, no further action was taken. The final step was taken by Mr. Seddon, the premier, on his return from the diamond jubilee celebrations. His Victoria College Act, passed on Dec. 22, 1897, founded the coll. 'in commemoration of the 60th yr. of the reign of H.M. Queen Victoria'. It was to be a liberal foundation, bringing univ. educn. within the reach of the working classes. The coll. was affiliated to the Univ. of N.Z. in 1899. Endowed by govt. with 4000 acres. Coll. bldgs., towards which govt. gave £31,000, were opened in 1906; addnl. wings for library, etc., and for phys. erected 1921-22; new admin. and biol. blocks erected 1937-39; 3rd storey to biol. block completed in 1954. Six-storey sci. block completed in 1958.

The govt. approved of a grant to the univ. for the establishment in 1960 of a branch coll. at Palmerston North, a city some 95 miles N. of Wellington, where Massey Agric. Coll. is situated. This branch coll. is known as Palmerston North University College (for staff, see 'Associated College', above) and in its 1st yr. it offered to internal students instrcn. at stage I in the subjs. educn., Engl., hist., geog. and maths. Addnl. subjs. will be available in succeeding yrs. A dept.



of extra-mural studies will provide tuition to external students throughout New Zealand in a restricted number of subjs.

**CONSTITUTION.** The council, the governing body of the univ., consists of the vice-chancellor (*ex officio*) and 17 other members apptd. or elected as follows: 2 by the governor-in-council, 4 by the court of convocation, 2 by the professorial bd., 1 by the teaching staff, 1 by the Wellington city council, 2 by members of educn. bds., 1 by governing bodies of secondary schs., 2 by teachers in primary schs., 1 by teachers in secondary and day technical schs., 1 by the executive of the students' assocn.

**INCOME (1959).** Total income, £319,820 (govt. grant, £276,890; student fees, £41,930; other sources, £1000).

**FACULTIES AND DEANS.** *Arts*, Prof. I. A. Gordon (Engl.); *comm.*, W. G. Rodger (accty.); *gen.*, Prof. I. D. Campbell; *sci.*, Prof. D. Walker (phys.).

**LIBRARY.** Approx. 107,108 vols. Available to staff, students, grads. and others by arrangement at nominal fee. N.Z. Royal Soc. libr. also housed in univ. bldg. and available to staff and students.

**LABORATORIES.** Bot., chem., educn., geog., geol., phys., psychol., zool.

**ENTRANCE REQUIREMENTS.** As prescribed by Univ. of N.Z., see p. 629.

**FIRST DEGREES (of Univ. of N.Z.).** BA, BSc, 3 yrs.; BCom, LLB, MusB, 4 yrs. Also 1st yr. of degree courses in agric., dent., engin., home sci., med.

**HIGHER DEGREES (of Univ. of N.Z.).** MA, MSc, MCom, LL.M, 1 or 2 yrs.; PhD, 2 yrs.

**DIPLOMAS.** *Univ. of N.Z.*: educn., 1 yr postgrad. or 2 yrs. undergrad.; banking, music, 3 yrs. *Univ. of Wellington*: pub. admin., soc. sci., 2 yrs.

**FEES.** *Arts* (3 yrs.), about £55 (MA, £9: 9s. addtnl.); *sci.* (3-4 yrs.), about £70 (MSc, £12: 12s. addtnl.); *law* (4-5 yrs.), about £85; *comm.* (4 yrs.), about £60. Exact fees vary in accordance with subjs. chosen. *Dipls. in pub. admin. and soc. sci.*, each £10: 10s. p.a.

**ADULT EDUCATION.** Adult educn. has been provided for since 1915, when the W.E.A., then at the outset of its work in N.Z., establd. 3 tutorial classes in Wellington. In 1945 the Adult Education Act was passed, which set up a natnl. council and 4 regional councils. Regular classes and discussion groups are now arranged throughout the Middle District (1957: 364 classes or groups in 98 different communities).

**RESEARCH SCHOLARSHIPS.** (2) Univ. res. scholps. of £450 p.a. for 2 yrs. Sr. Jacob scholps for full-time postgrad. res.; value and duration determined by the council in each case.

**RESIDENCE.** Weir House, Salamanca Rd, Kelburn, accomm. for about 99 men students. Fees, approx. £4: 15s. per wk. Warden: I. A. McLaren.

**PUBLICATIONS.** *Calendar*, 3s. (Dec.); *Spike* (students' magazine), normally publ. towards end of each session; *The Middle District*, a publicn. issued to graduates.

## THE YEAR 1959

**RETIREMENT.** Assoc. Prof. A. D. Monro (chem.).

**RESIGNATIONS.** R. S. Milne (sch. of pub. admin.), apptd. to overseas post; F. J. West (hist.), apptd. to res. fellowship, Aust.; G. L. Arvidson (educn.), apptd. lectr., Auckland; M. R. M. Turnbull (hist.), apptd. to publishing firm, Melb.; R. B. Johns (chem.), apptd. sr. lectr., Melb.

### Statistics

#### STUDENT NUMBERS, 1960

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	890	1553
Women . . .	421	430

Total 1311 1983

Distribution by Faculties. *Arts*, 1267; *comm.*,

779; *law*, 357; *pub. admin.*, 7; *sci.*, 780; *soc. sci.*, 19.

Included in the figures above are:—

Postgraduate students, 197.

New admissions, 998.

Students from other countries, 105. (Countries from which largest numbers came: Fiji, 26; Samoa, 18; N. Borneo, 11; Malaya, 9).

**DEGREES AWARDED (by Univ. of N.Z.) (1959).** *Arts*: BA, 100; MA, 42; PhD, 3. *Comm.*: BCom, 23; MCom, 1. *Law*: LLB, 31; LL.M, 2. *Sci.*: BSc, 50; MSc, 15; DSc, 4. *Music*: MusB, 1. Total number of first degrees awarded, 205.

**DIPLOMAS AWARDED (1959).** By *Univ. of N.Z.*: DipEd, 2; DipBank, 1; DipMus, 2. By *Victoria Univ. of Wellington*: DipSocSci, 7.

Sc,

# CANTERBURY AGRICULTURAL COLLEGE\*

Founded 1873

Postal Address : Lincoln College, New Zealand

Telephone : Christchurch 45-169

VISITOR—THE MINISTER OF EDUCATION

CHAIRMAN OF BOARD OF GOVERNORS—W. H. GILLESPIE

DIRECTOR AND PRINCIPAL—M. M. BURNS, CBE, MSc PhD *Aberd.*, FNZIC

VICE-PRINCIPAL—I. E. COOP, DPhil *Oxon.*, MSc

REGISTRAR AND TREASURER—H. G. HUNT, BCom, FCIS

LIBRARIAN—J. A. FRAMPTON, BA

## TEACHING AND RESEARCH STAFF

[† = Part-Time]

### Agricultural Economics

Philpott, B. P., MCom MA *Leeds* Prof.  
Ward, J. T., BLitt *Oxon.*, BSc(Econ) Sr. Lectr.  
DipAg(Econ)

### Agricultural Engineering

Riddolls, A. W., BE BSc Reader, Hd. of Dept.  
Lindsay, G. G., BSc(Agr) *R'dg.* Lectr.  
Baird, W. C. Sr. Instr.  
King, D. L. Tech. Instr.  
Pierson, R. A. Technician  
Milne, M. R. W. Res. Technician

### Agricultural Law

Wills, E. P., BA LL.M MCom †Lectr.

### Agricultural Microbiology

Blair, I. D., PhD *Lond.*, MAgrSc Reader, Hd. of Dept.  
Mulcock, A. P., MSc Lectr.  
Fenwick, Phillipa, BSc Res. Officer  
Bennett, Anne, DiplBact&ClinPathol Res. Officer

### Agricultural Zoology

Morrison, L., BSc(Agr) *Aberd.* Sr. Lectr., Hd. of Dept.  
Williams, G. R., BSc *Syd.* Lectr.

### Animal Husbandry

Coop, I. E., DPhil *Oxon.*, MSc Prof.  
Stevens, P. G., DipAg C.A.C. Sr. Lectr.  
Hart, D. S., MA *Camb.* Sr. Lectr.  
Holland, M. G., MAgrSc Sr. Lectr.  
Clark, V. R. Tech. Officer

### Farm Management and Rural Valuation

Flay, A. H., DipAg C.A.C., BSc MAgrSc Assoc. Prof.  
Garrett, H. E., BLitt *Oxon.*, BA MAgrSc Reader  
Cooke, M. B., CertAgr DipAg C.A.C. Sr. Lectr.  
Stewart, J. D., DipVFM C.A.C., MA Lectr.  
Ryde, B. J. P., DipVFM C.A.C. Lectr.  
Field Officers  
Morse, C. J.  
Falconer, P. M., DipAg DipVFM C.A.C.  
Oldfield, J. H., DipVFM DipAg C.A.C.  
Ower, D. K., DipAg M.A.C., DipVFM C.A.C.  
Guise, J. W. B., DipAg DipVFM C.A.C.

### Horticulture

Glazebrook, J. H., BSc(Hort) *R'dg.* Sr. Lectr.  
Challenger, S., BSc(Hort) *R'dg.* Lectr.  
Cradock, S. A., DipHort C.A.C. Instr.

### Plant Science

Langer, R. H. M., BSc(Agric) BSc PhD *Durh.* (Plant Sci.) Prof.  
Iversen, C. E., DipAg C.A.C., MAgrSc Reader  
Morrison, T. M., MSc PhD Sr. Lectr.  
White, J. G. H., MAgrSc Lectr.  
Wright, G. M., MSc †Lectr.

### Rural Education

McCaskill, L. W., DipAg C.A.C., MAgrSc Assoc. Prof.  
McSweeney, D. B., BA DipAg C.A.C. Asst. Lectr.  
Blackmore, R. C. Visual Aids Officer

Associate Member of the Association of Universities of the British Commonwealth

**Soil Science**

Walker, T. W., DIC, ARCS, BSc PhD Prof.  
 Adams, A. F. R., MSc Sr. Lectr.  
 Elphick, B. L., BSc Lond. Lectr.  
 Edmunds, A. R., BSc (Phys.) Lectr.  
 Campbell, A. S., MSc (Chem.) Asst. Lectr.  
 Horn, A. H., MSc Officer i/c Chem. Services

**Veterinary Science**

McLean, J. W., BVSc Syd., PhD Calif.,  
 MagrSc (on leave) Assoc. Prof.

Thomson, G. G., BSc(VetSc) Edin. Sr. Lectr.  
 Hopkirk, C. S. M., DVSc Melb. Res. Officer

**Wool**

Henderson, A. E., PhD Lond., BAgSc  
 Reader, Hd. of Dept.  
 Simpson, J. C. Instr.  
 Bellamy, G. G. †Instr.  
 Fraser, I. E. B., BSc PhD Leeds Res. Officer  
 Fox-Rogers, Janet, BSc Wool Metrologist

**ADMINISTRATIVE AND OTHER STAFF**

Accountant : H. J. Walker. Warden : J. D. Mackay, MBE, BA BSc

**GENERAL INFORMATION**

In 1872 the provincial council of Canterbury set aside certain lands for the endowment of higher educn., incl. provision for a sch. of agric. Land suitable for the activities of such a sch. was bought at Lincoln in 1877 by the Canterbury Coll. bd., which was administering the endowments, and Lincoln Agric. Coll. was opened in 1880. By the Canterbury Agric. Coll. Act, 1896, control of Lincoln Agric. Coll. was removed from the Canterbury Coll. bd. and vested in a separate bd. of governors, the coll. thenceforth being known as Canterbury Agric. Coll. In 1913 a univ. degree in agric. was instituted and the coll. was recog. as a sch. of agric. by the Univ. of New Zealand. A series of amending acts was passed between 1922 and 1927, and by legislation passed in the latter yr. the coll. became a coll. of the univ. The coll. is situated nr. the township of Lincoln, about 13 mls. south-west of Christchurch, South Island.

**CONSTITUTION.** The Canterbury Agric. Coll. Act, 1930, with subsequent amendments, constitutes the present authority of the coll. It is governed by a bd. of governors consisting of the principal (director) and 15 members elected as follows: 1 by governor-general of N.Z., 3 by Canterbury members of the House of Representatives, 2 by council of Univ. of Canterbury, 1 by Council of Univ. of Otago, 1 by South Island agric. and pastoral assocns., 3 by South Island federated farmers of N.Z., 3 by grads., 1 by staff.

**INCOME (1958).** £270,000 (grant, 54 per cent.; fees and donations, 2 per cent.; endowments, 1 per cent.; trading, 43 per cent.).

**LIBRARY.** 10,000 vols. Subscribes to 300 journals.

**LABORATORIES, ETC.** Normal range of bldgs. to provide teaching & res. facilities in agric. econ., agric. engin., farm management & valn., hort., plant & animal scis., soil, vet. sci. and wool res.

The COLLEGE FARMS comprise approx. 2228 acres, 1350 acres being situated at the coll. and

878 acres 8 mls. distant at Ashley Dene farm. Special facilities are available for sheep and plant res. on a field scale. Full facilities are available for teaching hort.

The CROP RESEARCH AND BOTANY DIVISIONS (D.S.I.R.), which are the main centres in N.Z. for plant breeding and bot. study, are sited contiguous to the coll. Both these instns., together with other sub-stns. of D.S.I.R. associated with them, co-operate with the coll. in the provision of material for teaching and res.

**RESEARCH.** Investigations are proceeding in soil sci., the various major fields of plant sci. and animal sci., agric. econ., farm management & valn., and agric. engin. Facilities are available for postgrad. study and res. in these fields.

**ADMISSION.** See p. 629. Overseas students desiring to be admitted *ad eundem statum* to any of the degree courses at the coll. should supply full details of the undergrad. or grad. course already taken. Subsequently, formal applicn. must be made to the registrar of the Univ. of N.Z. Non-members of the univ. may be admitted to the dipl. courses, details of pre-requisite qualifs. being obtainable from the coll. registrar.

**FIRST DEGREES (of Univ. of N.Z.).** BAg, BAg(Hort)—3 yrs.; BAgSc, BAgSc(Hort)—4 yrs.

**HIGHER DEGREES (of Univ. of N.Z.).** MAgSc, MAgSc(Hort)—normally 1 yr. following the BAgSc course; PhD—a 2-yr. full-time course open to candidates who have been admitted to a master's degree of Univ. of N.Z. (either by exam. or by admission '*ad eundem statum*') at the standard of 1st or 2nd class hons.

**UNIVERSITY CERTIFICATE OF PROFICIENCY.** Any matriculated person may take a course in any one or more subjects of the degree courses for Univ. of N.Z. cert. of proficiency in that subject or subjects.

**COLLEGE DIPLOMAS, CERTIFICATES.** Dipl. in valuation & farm management, dipl. in agric. engin.—advanced courses of 1 yr. which must be taken after appropriate pre-requisite courses; dipl. in agric., dipl. in hort.—2-yr. courses together with addtnl. practical experience. Cert. course in wool-classing—1 session.

**OTHER COURSES.** Intensive general course in agric.—1 yr. after 3 yrs.' practical experience; sp. courses for 3rd-yr. trg. coll. students in agric. and for soil conservators; various short courses in agric. and hort. subjects.

**FEES.** Tuition fees: PhD, £21; master's degrees, £12:10s.; bachelor's degrees, dipl. courses and intensive course in agric., £22:10s.; wool-classing course, £12; short courses, £1 per wk

**ACADEMIC YEAR.** March to Nov., 3 terms of 9, 10 and 12 wks.

**STUDENT RESIDENCES.** Accommod. for approx. 300 men and women students in 3 residential halls. Fees: £4:15s. per wk.

**STUDENTS' ASSOCIATION.** The assocn. caters for the athletic and social side of the student's life. Normal facilities available for sport.

**PUBLICATIONS.** *Calendar* (5s.); *Rural Educn. Bulletin* (5s. p.a. for 10 monthly copies); *Annual Review* (7s. 6d.); *Chamber of Commerce Bulletin* (10s. p.a.); *Lincoln Coll. Farmers' Conference Proceedings* (7s. 6d.); *Life and Work at Canterbury Agric. Coll.* (the first 75 yrs. of the agric. coll. at Lincoln), compiled by I. D. Blair (Caxton Press, Christchurch, 1956).

## THE YEAR 1959

**RESIGNATION.** Dr. J. A. Veale (plant sci.), apptd. sr. lectr., N.E.

### Statistics

**STUDENT NUMBERS, 1960**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	312	302
Women . . .	5	31

**Total** 317 333

**Distribution by Faculties.** *Agric.*, 569; *hort.*, 81.

*Included in the figures above are :—*

Postgraduate students, 12.

New admissions, 132.

Students from other countries, 42. (Countries from which largest numbers came: Australia, 21; Fed. of Malaya, 10; Gt. Britain & Ireland, 4).

**DEGREES AWARDED** (by Univ. of N.Z.) (1959). BAgrSc, 8; MAgrSc, 1. *Total number of first degrees awarded*, 8.

**DIPLOMAS AWARDED** (1959). DipVFM, 20; DipAgEng, 5; DipHort, 2; DipAg, 46.

**CERTIFICATES AWARDED** (1959). 6.

[Information compiled as at 1/7/60]

## MASSEY AGRICULTURAL COLLEGE \*

Founded 1926

**Postal Address:** Massey College P.O., Palmerston North, New Zealand

**Cables and Telegrams:** Massey College, New Zealand

**Telephone:** Palmerston North 7940

**VISITOR—THE MINISTER OF EDUCATION**

**CHAIRMAN OF COUNCIL—E. D. HOLT, JP**

**PRINCIPAL—A. STEWART, DPhil Oxon., MAgrSc**

**REGISTRAR—A. J. WEIR, BSc**

**LIBRARIAN—MARY G. CAMPBELL, MA Edin.**

\* Associate Member of the Association of Universities of the British Commonwealth

## TEACHING AND RESEARCH STAFF

[\*=Joint member of the staffs of the College and Dairy Research Institute]

**Agricultural Biochemistry**

Hawke, J. C., PhD *Camb.*, BSc  
Sr. Lectr., Hd. of Dept.  
Wallace, G. M., BSc, FNZIC Sr. Lectr.  
Richards, E. L., PhD *Brist.*, MSc Sr. Lectr.  
Lawrence, R. C., BSc *Lond.* Lectr.  
Quin, Sybil E. Demr.

**Agricultural Botany**

Yeates, J. S., PhD *Camb. & N.Z.*, MSc  
Sr. Lectr., Hd. of Dept.  
Campbell, Ella O., MA Lectr.  
Esler, A. E., MAgrSc Lectr.  
Calder, D. M., MSc (on leave) Jr. Lectr.  
Skipworth, J. P., MSc Jr. Lectr.

**Agricultural Economics**

Low, H. B., MA PhD *Lond.*  
Sr. Lectr., Hd. of Dept.  
Singh, S., BCom Jr. Lectr.

**Agricultural Engineering**, see Phys. and Engin.**Agricultural Zoology**

Tetley, J. H., DSc MAgrSc  
Assoc. Prof., Hd. of Dept.  
Gurr, L., MSc Sr. Lectr.  
Boshier, D. P., MSc (on leave) Lectr.  
Dale, P. S., MSc Lectr.

**Dairy Husbandry**

Campbell, I. L., PhD *Missouri*, BAgSc Prof.  
Flux, D. S., PhD *R'dg.*, MAgrSc Sr. Lectr.  
Dunkin, A. C., MSc(Agric) *Lond.* Sr. Lectr.  
Davey, A. W. F., BAgSc Lectr.  
Munford, R. E., MAgrSc Lectr.

**Dairy Technology**

Ward, J. W. Sr. Lectr., Actg. Hd. of Dept.  
Singleton, J. A., BSc BAgSc Sr. Lectr.\*  
Henson, J. H., BAgSc Sr. Lectr.  
Harkness, W. L., DipDy *M.A.C.* Lectr.\*  
Le Heron, B. S., DipDy *M.A.C.* Lectr.\*

**Farm Management and Valuation**

Hodgson, J. N., BAgSc  
Sr. Lectr., Hd. of Dept.  
Watson, N., DipAg DipVFM *C.A.C.* Sr. Lectr.  
MacGillivray, P. A., BAgSc Lectr.  
Sargent, E. D., BSc *Durh.* Lectr.

**Horticulture**

Hockey, K. C. Sr. Lectr., Hd. of Dept.  
Richards, M., BSc(Hort) *Nott.* Sr. Lectr.  
Fisher, K. J., BAgSc(Hort) Jr. Lectr.

**Microbiology**

Sargent, J. D., MSc Sr. Lectr., Hd. of Dept.  
Wenham, H. T., MS *Wis.*, MSc Sr. Lectr.  
Cox, G. A., MSc Lectr.\*

**Physics and Engineering**

McGregor, A. A. D., BE MSc  
Sr. Lectr., Hd. of Dept.  
Hodgson, E. R., MSc Sr. Lectr.  
Dickson, A. J. Lectr.  
McKay, I. R. Instr.  
Davison, J. Instr.  
Rickard, K. J. Instr.

**Poultry Husbandry**

Kissling, J. H. Lectr. & Manager

**Sheep Husbandry**

Rae, A. L., PhD *Iowa*, MAgrSc Prof.  
Barton, R. A., DipAg *M.A.C.* Sr. Lectr.  
Small, E. Sr. Lectr.  
Chang, T. S., MAgrSc Lectr.  
Cockrem, F. R., MA *Camb.*, PhD Res. Officer

**Soils and Field Husbandry**

Hudson, A. W., BAg BSc Prof.  
Jacques, W. A., BSc *Wales*  
(Field Husb.) Sr. Lectr.  
Robinson, G. S., MAgrSc (Field Husb.) Sr. Lectr.  
Schwass, R. H., MAgrSc (Field Husb.) Sr. Lectr.  
Cross, M. W. (Farm Machinery) Sr. Lectr.  
Fife, C. V., MSc (Soils & Manures) Sr. Lectr.  
Jacks, H., PhD *Lond.*, MAgrSc  
(Soils & Manures) Sr. Lectr.  
Pollok, J. A., MS *Minn.*, BAgSc  
(Soils & Manures) Lectr.  
Arlidge, E. Z., PhD *Aberd.*, MSc  
(Soils & Manures) Lectr.  
Webb, B. H., BAgSc  
(Farm Machinery) Jr. Lectr.  
Bowler, D. G., DipAg *M.A.C.*  
Drainage Advisory Officer

**Veterinary Pathology and Animal Physiology**

..... Hd. of Dept.  
Newhook, J. C. Sr. Lectr., Actg. Hd. of Dept.  
Reynolds, B. A. Lectr.

**Wool**

Meek, T. A., DipWool *M.A.C.* Hd. of Dept.  
Shadwell, A., DipWool *M.A.C.* Instr.  
Corrigan, M. K., DipWool *M.A.C.* Asst. Instr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar (Finance): R. L. McEwen,  
BCom. Sheep Farm Supervisor: W. R. R.

Hewitt. Dairy Farm Supervisor: I. P. M.  
McQueen, BSc(Agric) Lond.

## GENERAL INFORMATION

The college (named in honour of the Rt. Hon. W. F. Massey, prime minister of N.Z., 1912-25) was establd. under the New Zealand Agricultural College Act in Sept. 1926 as the result of an agreement between Victoria Univ. Coll., Wellington, and Auckland Univ. Coll. to amalgamate their respective schools of agric. and to establish the new coll. in the Palmerston North-Marton area. On July 29, 1927, an amending statute, the Massey Agricultural College Act, was passed, and the coll. establd. under its present title. A further amending and consolidating act, the Massey Agricultural College Act, 1952, was subsequently passed.

**CONSTITUTION.** The coll. is governed by a council consisting of the principal and 12 members elected as follows: 4 by the governor-general, 2 by council of the Univ. of Auckland, 2 by council of Victoria Univ. of Wellington, 1 by Palmerston North city council, 1 by grads., 1 by holders of dipls., 1 by profs. and lectrs.

**INCOME (1959).** Approx. £159,000 excluding hostels, farm and trading activities (govt. grants, 80.6 per cent.; fees, 6.2 per cent.; endowments, interest and rents, 3.7 per cent.; res. grants, 8.9 per cent.; misc., 0.6 per cent.).

**LIBRARY.** 20,200 vols., 320 periodicals.

**LABORATORIES, FIELD STATIONS, ETC.** Main sci. bldg. contains lecture rooms, teaching and res. labs., library, assembly hall, studies, common rooms, etc. Lecture rooms and studies for econ.; hortic. and sheep hush. depts. are situated in an adjacent bldg. A vet. clinic comprising lecture room, labs., X-ray room, operating theatre and studies, houses vet. dept. Other bldgs. for wool teaching, engin. and carpentry instruction, stock demonstration, machinery demonstration.

The COLLEGE FARMS comprise some 4100 acres, 1250 acres being situated at the coll., 1050 acres 8 miles distant and 1800 acres 60 miles distant. Full facilities are available for teaching hortic.

**ADMISSION.** See p. 629. Overseas students desiring to be admitted *ad eundem statum* to any of the degree courses at Massey Agric. Coll. should supply full details of the undergrad. or grad. course already taken. Subsequently, formal applicn. must be made to the registrar of the Univ. of N.Z. For other than degree courses, no exam. qualif. is required, but certain pre-course practical experience is called for.

**FIRST DEGREES (of Univ. of N.Z.).** BAg, BAg (Hort)—3 yrs. BAgSc, BAgSc(Hort), BAgSc (DairyTech)—4 yrs.

**HIGHER DEGREES (of Univ. of N.Z.).** MAgSc, MAgSc(Hort) and MAgSc(DairyTech)—normally, 1 yr. following the BAgSc course but in some cases, especially overseas students, 2 yrs. are required. PhD—a 2-yr. full-time course open to candidates who have been admitted to a master's degree of Univ. of N.Z. (either by exam. or by admission *ad eundem statum*) at the standard of 1st or 2nd class honrs.

**UNIV. CERT. OF PROFICIENCY.** Any matriculated person may take a course in any one or more subjects of the degree courses for Univ. of N.Z. cert. of proficiency in that subject or subjects.

**COLLEGE DIPLOMAS, CERTIFICATES.** Dipls. in dairy farming, sheep farming, dairying (butter-making, cheesemaking or market milk), hortic., wool and wool-classing. Dipl. courses, except dairying and wool and wool-classing cover 1 yr. Dairying—3 winter terms. Wool and wool-classing, 2 yrs. Cert. in poultry farming—1 yr. Various short courses also available.

**RESEARCH.** Facilities available for postgrad. study or res. in most branches of agric.

**FEES.** PhD, £21; master's degrees, £12:10s.; bachelor's degrees, £22:10s. p.a.; dipl. in sheep farming and dairy farming, £22:10s. p.a.; dipl. in hortic., £22:10s. p.a.; dipl. in wool-classing, £12:10s. p.a.; dipl. in dairying, £10 p.a.

**ACADEMIC YEAR.** Feb. to Oct. Two terms of 11 wks. each, one of 7 wks.

The DAIRY RESEARCH INSTITUTE AND THE GRASSLANDS DIVISION & PLANT CHEMISTRY LAB. (D.S.I.R.), which are the centres for N.Z. for dairy and grasslands res. respectively, are located at the coll. These institutions co-operate with the coll. in the provision of material for teaching and for postgrad. res.

**STUDENT RESIDENCES.** Three men's hostels accommodating 300. One women's hostel accommodating 25. Fees, per week, men—£4:2s.:6d.; women—£4. Postal address: Massey Coll. P.O., Palmerston North.

**STUDENTS' ASSOCIATION.** The assocn. caters for the athletic and social side of the student's life. Excellent facilities available for cricket, tennis, swimming, athletics, hockey, shooting, football, etc.

**PUBLICATIONS.** *Calendar* (Feb.), free. *Postgrad. Courses and Facilities for Res.*, free. *Sheep Farming Annual* (12s. 6d.) and *Dairy Farming Annual* (10s.) (proceedings of annual meetings of sheep farmers and dairy farmers held at the coll.), (Oct.-Dec.). Also a series of technical publications.

## THE YEAR 1959

NEW DEPARTMENT. Farm management and valuation.

RETIREMENT. C. C. Yates (registrar).

## Statistics

STUDENT NUMBERS, 1960  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	539	5
Women . . .	21	3
Total . . .	560	8

*Included in the figures above are :—*  
Postgraduate students, 20.

New admissions, 252.

Students from other countries, 82. (Countries from which largest numbers came : Australia, 28 ; India, 14 ; Kenya, 12 ; Malaya, 6).

DEGREES AWARDED (by Univ. of N.Z.) (1959). BAgr, 3 ; BAgrSc, 10 ; BAgrSc(Hort), 2 ; MAgrSc, 5. *Total number of first degrees awarded, 15.*

DIPLOMAS AWARDED (1959). DipAg, 46 ; DipHort, 8 ; DipDy, 13 ; DipWool, 23.

CERTIFICATES AWARDED (1959). Poultry farming, 1.

# **NIGERIA**

**University College, Ibadan (p. 658)**

**University of Nigeria (p. 664)**



# UNIVERSITY COLLEGE, IBADAN\*

Founded 1948

*Postal Address* : Ibadan, Nigeria, West Africa

*Cables and Telegrams* : University, Ibadan

*Telephones* : Ibadan 22841 (5 lines)

(London Representative, 40 Gordon Square, W.C.1. *Telephone* : Euston 8948)

VISITOR—H.E. Sir JAMES ROBERTSON, GCMG, GCVO, KBE, MA *Oxon.*, Governor-General of Nigeria

CHAIRMAN OF COUNCIL—Sir FRANCIS IBIAM, KBE, MB ChB *St.And.*

PRINCIPAL—K. O. DIKE, BA *Durh.*, MA *Aberd.*, PhD *Lond.*

VICE-PRINCIPAL—C. W. L. BEVAN, BSc *Wales*, PhD *Lond.*

REGISTRAR—N. K. ADAMOLEKUN, BA *Lond.*

BURSAR—G. J. B. ALLPORT, MA *Oxon.*, FCA

LIBRARIAN—W. J. HARRIS, BA *Oxon.*

## TEACHING STAFF

### Agriculture

McIlroy, R. J., MSc *N.Z.*, PhD *Birm.*,  
FRIC Prof.  
Hill, D. H., DVM *Tor.*  
(Animal Husb. & Health) Sr. Lectr.  
Oyenuga, V. A., BSc PhD *Durh.*, FRIC  
(Animal Nutrition) Sr. Lectr.  
Caswell, G. H., BSc *Lond.*  
(Agric. Entomol.) Lectr.  
Oluwasanmi, H. A., BA *Morehouse*, AM  
PhD *Harv.*  
(Agric. Econ. & Farm Management) Lectr.  
Moore, A. W., BAgSc *Adel.*, MSc  
PhD *Nebraska* Lectr.  
Lewis, R. T., BSc(Agric) *Wales*, MSc *Durh.*  
(Agric. Mechanization) Lectr.  
Fayemi, A. A. A., MSc *Ill.*, PhD *Kansas* Lectr.  
Hopkins, B., BSc *Manc.*, PhD *Lond.* Lectr.  
Modebe, A. N. A., MAgSc PhD *N.U.I.*  
(Animal Husb. & Health) Lectr.  
..... (Agric. Econ.) Lectr.  
..... (Plant Pathol.) Lectr.

### Arabic Studies

Hunwick, J. O., BA *Lond.* Lectr.

### Biology

Elgood, J. H., MA *Camb.* Sr. Lectr.

### Botany

Njoku, E., BA PhD *Lond.*, MSc *Manc.* Prof.  
..... Sr. Lectr.  
Cole, M. J., BSc PhD *S'ton.* Lectr.

Jackson, G., BSc *Sheff.*, DipAgricSc *Camb.*

Lawton, J. R. S., BSc PhD *Lond.* Lectr.  
Eggins, H. O. W., BSc PhD *Nott.* Lectr.  
Amobi, C. C., BSc DipEd *Lond.* Lectr.  
Williams, C. N., BSc *Natal*, MSc *Lond.* Res. Fellow

### Chemistry

Bevan, C. W. L., BSc *Wales*, PhD *Lond.*,  
FRIC Prof.  
Hirst, J., BSc PhD *Lond.* Sr. Lectr.  
Irvine, D. H., BSc *Leeds*, PhD *Camb.* Sr. Lectr.  
Taylor, D. A. H., MA DPhil *Oxon.* Sr. Lectr.  
Goddard, D. R., BSc PhD *Lond.* Sr. Lectr.  
Foley, A. J., BA BSc *N.U.I.* Lectr.  
Rees, A. H., MA *Camb.*, PhD *Lond.* Lectr.  
Akisanya, A., BSc *Lond.* Lectr.  
Una, S. J., BSc *Dub.* Lectr.  
Emovon, E. U., BSc PhD *Lond.* Lectr.  
Powell, J. W., BA DPhil *Oxon.* Temp. Asst. Lectr.  
Ogan, A. U., BSc PhD *Lond.* Res. Fellow

### Classics

Ferguson, J., MA *Camb.*, BD *Lond.* Prof.  
Guite, H. F., MA *Lond.* Sr. Lectr.  
Hands, A. R., MA *Oxon.* (Anc. Hist.) Lectr.  
Pathmanathan, S. R., BA *Ceyl.*, MA *Oxon.* Lectr.  
Kemp, J. A., MA *Camb.* Lectr.  
Thompson, L. A., BA *Camb.* Lectr.  
Considine, P., BA *Lond.* & *Oxon.* Lectr.  
Esan, S. O., MA *Lond.* Lectr.

Associate Member of the Association of Universities of the British Commonwealth

**Economics and Social Studies**

Barback, R. H., BSc(Econ) <i>Lond.</i>	Prof.
Wraith, R. E., OBE, BCom <i>Birm.</i>	
(on leave) (Pub. Admin.)	Sr. Lectr.
.....	Sr. Lectr.
Wrigley, C. C., MA <i>Oxon.</i>	Lectr.
Onitiri, H. M. A., BSc(Econ) <i>Lond.</i> , MA <i>Yale</i>	Lectr.
Lloyd, P. C., MA DPhil <i>Oxon.</i>	(Sociol.) Lectr.
Brown, C. V., BA <i>Haverford</i>	Lectr.
Abovade, O., BEcon.Sc <i>Hull</i>	Lectr.
Garside, M., BSc(Econ) <i>Lond.</i>	
(Stats.)	Asst. Lectr.

**Education, Institute of**

Taylor, A., MA DipEd <i>N.Z.</i>	Dir., Prof.
Miller, D. C., BA DipEd <i>Lond.</i> , MEd <i>Hull</i>	
.....	Sr. Lectr.
Stone, R. H., BSc <i>Belf.</i> , DipEd <i>Lond.</i>	Sr. Lectr.
Setidisho, N. O. H., BSc DipEd <i>Rhodes</i> , BSc <i>S.A.</i>	Sr. Lectr.
Espie, I., MA <i>Glas.</i>	Lectr.
Harris, Verona, MA <i>Natal</i>	Lectr.
King, A. V., BMus <i>Lond.</i>	Lectr.
Ngu, Clara E., ATC <i>Lond.</i>	Lectr.
Kellaghan, T. P., BA <i>Belf.</i>	Jr. Res. Fellow

**Engineering**

Blakemore, R. H., BSc(Eng) <i>Lond.</i>	
.....	Designated Teacher
Chapoke, M. O., BSc(Eng) PhD <i>Lond.</i>	
.....	Designated Teacher
Hill, J. W., MA MAI <i>Dub.</i>	Designated Teacher
Lahiri, B. N., DIC, MSc PhD <i>Lond.</i>	
.....	Designated Teacher
McKibbin, H., BSc PhD	Designated Teacher
O'Dell, T. H., BSc(Eng) <i>Durh.</i>	
.....	Designated Teacher
Raymond, S., BSc <i>Manc.</i>	Designated Teacher
Wilson, D. G., BSc PhD <i>Birm.</i>	
.....	Designated Teacher
Yost, J. O., BSc(Eng) <i>Brist.</i>	Designated Teacher

**English**

Mahood, Molly M., MA <i>Lond. &amp; Oxon.</i>	Prof.
Brosnahan, L. F., MA <i>N.Z.</i> , DLitt <i>Ley.</i>	
.....	Sr. Lectr.
Axworthy, G. J., MA <i>Oxon.</i>	Lectr.
Ramsaran, J. A., MA <i>Lond.</i>	Lectr.
Banham, M. J., BA <i>Leeds</i>	Lectr.
Browne-Wilkinson, Virginia, BA <i>Oxon.</i>	Lectr.
Stevenson, W. H., MA <i>Edin.</i> , BLitt <i>Oxon.</i>	Lectr.

**French and German**

Bevan, Mrs. Elizabeth, BA <i>Lond.</i>	Lectr.
Weckselmann, D., MA <i>Paris</i>	
.....	(French) Lecteur
Feuser, W., PhD	(German) Lector

**Geography**

Garnier, B. J., MA <i>Camb.</i>	Prof.
White, H. P., MA <i>Lond.</i>	Sr. Lectr.
Hodder, B. W., MA BLitt <i>Oxon.</i>	Lectr.
Prescott, J. R. V., BSc MA <i>Durh.</i>	Lectr.

Mabogunje, A. I., BA *Lond.*  
Thomas, M. F., MA *R'dg.*

Lectr.  
Lectr.

**Geology**

Worrall, P., BA MSc PhD <i>Lond.</i>	Sr. Lectr.
Oyawoye, M. O., BSc <i>Wash.State</i> , PhD <i>Durh.</i>	Lectr.

**Government**

O'Connell, J., MA <i>N.U.I.</i> , PhD <i>Louvain</i>	Lectr.
Ezera, K., MA <i>Harv.</i> , DPhil <i>Oxon.</i>	Lectr.

**History**

.....	Prof.
Smith, H. F. C., BA <i>Camb.</i>	Sr. Lectr.
Mowat, R. C., MA <i>Oxon.</i>	Sr. Lectr.
Anene, J. C., MA DipEd <i>Lond.</i>	Lectr.
Omer-Cooper, J. D., MA <i>Camb. &amp; Rhodes</i>	Lectr.
Ajayi, J. F. A., BA PhD <i>Lond.</i>	Lectr.
Ifemesia, C. C., BA PhD <i>Lond.</i>	Lectr.
Ryder, A. F. C., MA DPhil <i>Oxon.</i>	Lectr.
Aderibigbe, A. A. B., BA PhD <i>Lond.</i>	Lectr.
Benin Scheme	
Dark, P. J. C., MA PhD <i>Yale</i> , DipFineArt <i>Lond.</i>	Sr. Res. Fellow
Bradbury, R. E., BA PhD <i>Lond.</i>	Res. Fellow

**Mathematics**

Geoghegan, Kathleen, MA <i>Oxon.</i> , MSc <i>Lond.</i> , PhD <i>Edin.</i>	Prof.
Obi, C., MSc <i>Lond.</i> , PhD <i>Camb.</i>	Sr. Lectr.
Chaudhuri, P. C., MSc <i>Calc.</i> , PhD <i>Lond.</i>	
.....	Sr. Lectr.
Oyelese, J. O., BSc <i>Birm.</i>	Lectr.
Olubummo, A., MA PhD <i>Durh.</i>	Lectr.
Ezeilo, J. O. C., MSc <i>Lond.</i> , PhD <i>Camb.</i>	Lectr.
Crowe, D. W., MA <i>Nebraska</i> , PhD <i>Mich.</i>	Lectr.
Denniston, R. H. F., MA <i>N.Z. &amp; Camb.</i> , PhD <i>Camb.</i>	Lectr.

**Parasitology**

Onabamiro, S. D., BSc <i>Manc.</i> , PhD <i>Lond.</i> , FLS	Sr. Res. Fellow
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**Phonetics**

Spencer, J. W., MA <i>Oxon.</i>	Sr. Lectr.
---------------------------------	------------

**Physics**

.....	Prof.
Lyon, A. J., MA PhD <i>Edin.</i>	Sr. Lectr.
Skinner, N. J., BSc <i>Nott.</i> , PhD <i>Lond.</i>	Sr. Lectr.
Ojo, D. F., BSc PhD <i>Edin.</i>	Lectr.
Onwumechilli, C. A., BSc PhD <i>Lond.</i>	Lectr.
Ibukun, L. O., DIC, BSc(Eng) <i>Lond.</i>	Lectr.
Kent, G. S., MA PhD <i>Camb.</i>	Lectr.
Agui, B. N. C., BSc <i>Lond.</i> , PhD <i>Leic.</i>	Lectr.
Ette, A. I. I., BSc <i>Lond.</i>	Lectr.
Awe, O., BSc PhD <i>Lond.</i>	Lectr.

**Religious Studies**

Gundry, D. W., MTh BD <i>Lond.</i> , FRAI	Prof.
Idowu, E. B., BD PhD <i>Lond.</i>	Lectr.

Gardiner, J. A., MA *Aberd. & Camb.*,  
BD *Edin.* Lectr.  
Barrington-Ward, S., BA *Camb.* Lectr.

**Social Studies**, see Econ. and Soc. Studies

### Zoology

..... Prof.  
Elgood, J. H., MA *Camb.* Sr. Lectr.  
Parker, A. H., MSc *Birm.*, PhD *Glas.* Sr. Lectr.  
Hill, Mrs. Margaret B., BSc PhD *Lond.* Lectr.  
Sandison, Eyvor E., BSc *St.And.*, PhD *Edin.* Lectr.  
Olaniyan, C. I. O., BSc PhD *Lond.* Lectr.  
Dorsett, D. A., BSc PhD *Lond.* Lectr.  
Ene, J. C., BSc PhD *Lond.* Lectr.  
Sibley, F. C., MS *Corn.* Temp. Lectr.  
Ward, P., BSc *Liv.* Res. Fellow

## MEDICINE

### Anæsthetics

Rigg, D. R., MB ChB *Sheff.*, FFA RCS  
Temp. Sr. Lectr.  
Waters, B. J., BM DCh *Oxon.*, FFARCS  
Sr. Lectr.  
Scott, D. B., MD *Edin.*, FFARCS Temp. Lectr.  
Gool, R. Y., MB BCh *Rand* Lectr.

### Anatomy

Smith, A., FRCSEd Prof.  
Kostick, E. L., BA MB BCh BAO *Dub.* Lectr.  
Bunning, P. S. C., MB BS *Lond.* Lectr.

### Bacteriology

Collard, P. J., MD *Lond.*, MRCP Prof.  
Sen, R., MB *Calc.*, PhD *Lond.*, Dip.Bact  
*Manc.* Sr. Lectr.  
Cowper, S. G., TD, DSc R'dg., PhD *Lond.*,  
DTM&H *Liv.* (Parasitol.) Sr. Lectr.  
Lapage, S. P., MB BS DipBact *Lond.*  
(on secondment) Lectr.

### Biochemistry

Bassir, O., BSc *Liv.*, PhD *Lond.* Sr. Lectr.  
Denniston, Jelica, PhD *Belgrade* Lectr.

### Chemical Pathology

Edozien, J. C., BSc *Lond.*, MSc MD *N.U.I.*,  
MRCPed Sr. Lectr.  
..... Sr. Lectr.  
Gordon, J., BSc MB BCh *Rand* Lectr.

### Medicine

Brown, A., CBE, MB ChB *Edin.*, FRCPEd Prof.  
Lauckner, J. R., MB ChB *Edin.*, MRCP,  
FRFPGlas Sr. Lectr.  
Abrahams, D. G., MD *Camb.*, MRCP Sr. Lectr.  
Kinnear, T. W. G., MBE, MB ChB *Edin.*,  
MRCP Lectr.  
Low, M. D. W., MB ChB *Edin.*, DTM&H *Liv.*,  
MRCPed Lectr.  
Money, I. G., MD *Lond.*, MRCPed Lectr.  
Gillès, H. M., BSc MD *Malta*, BSc *Oxon.*  
(Trop. M.) Temp. Lectr.

## Obstetrics and Gynæcology

Lawson, J. B., MA MB BChir *Camb.*,  
FRCOG Prof.  
Lister, Una G., MB BS *Lond.* Sr. Lectr.  
Fullerton, W. T., MB ChB *Glas.* Lectr.  
Hendrickse, J. P. de V., MB ChB *Cape T.* Lectr.

## Pædiatrics

Collis, W. R. F., MA MD *Camb.*, FRCP,  
FRCPI Hon. Sr. Res. Fellow  
Tompkins, A. B., MD *Lond.*, MRCP Sr. Lectr.  
Hendrickse, R. G., MD ChB *Cape T.*,  
MRCPed Lectr.  
Omolulu, A. Rockefeller Res. Fellow

## Pathology, see also Chem. Pathol.

Edington, G. M., MBE, MD *Glas.* Prof.  
Jackson, J. G., MB ChB *Birm.*  
(Morbid Anat.) Sr. Lectr.  
Watson-Williams, E. J., BA MB BChir *Camb.*,  
MRCP (Hæmatol.) Sr. Lectr.  
Worledge, Sheila M., MB BS *Lond.*  
(Hæmatol.) Lectr.  
Brew, D. St. J., MB BS *Lond.*  
(Morbid Anat.) Lectr.

## Pharmacology

Schnieden, H., MD *Brist.* Sr. Lectr.  
James, Dinah M., MPharm PhD *Wales* Sr. Lectr.

## Physiology

Grayson, J., MSc MD *Manc.* Prof.  
..... Sr. Lectr.  
Fernand, V. S. van V., PhD *Lond.*,  
LMS *Ceyl.* (Histol.) Sr. Lectr.  
Dosekun, Chief F. O., MA MD *Dub.*,  
FLS Sr. Lectr.  
..... Lectr.

## Preventive and Social Medicine

Ajose, O. A., MD DPH *Glas.* Prof.  
Van der Wall, H. M., LMS *Ceyl.*,  
DPH *Lond.*, TDD *Madr.* Sr. Lectr.  
Owen, J. S., MB ChB DPH *Birm.*,  
DipHed *Lond.* Lectr.

## Radiology

Cockshott, W. P., MD DMRD *Edin.* Sr. Lectr.  
Barton, C. J., MB ChB *Edin.*, DMRD Lectr.

## Surgery

Davey, W. W., MD *Belf.*, FRCSI, FRCS Prof.  
Konstam, P. G., MD *Fran.*, FRCSEd Sr. Lectr.  
Thomas, H. O., MB ChB *Birm.*, FRCS  
Sr. Lectr.  
Martinson, F. D., MB ChB *Edin.*,  
FRCS, FRCSEd (Otolaryngol.) Sr. Lectr.  
Batten, R. L., BA *Camb.*, FRCS Sr. Lectr.  
Weaver, E. J. M., BA MB BChir *Camb.*,  
FRCS Sr. Lectr.  
..... Lectr.

**EXTRA-MURAL STUDIES**

Ogunsheye, A., BSc(Econ) <i>Lond.</i>	Dir.
Booth, N. H., BLitt <i>Oxon.</i>	Sr. Tutor
Beier, H. U., BA <i>Lond.</i>	Tutor
Bown, Lalage J., MA <i>Oxon.</i>	Tutor
Allanah, S. S., BCom <i>Birm.</i>	Tutor
Awa, E. O., BA(Econ) <i>Lincoln(Pa.)</i> , MA PhD N.Y.	Tutor
Tugbeye, E. A., BA <i>Virginia</i> , AM <i>Harv.</i>	Tutor
Mapasan, J. A., BA <i>Manc.</i> , DipEd <i>Oxon.</i>	Tutor
Mphahlele, E., MA <i>S.A.</i>	Tutor
Dravton, A. D., BA <i>Lond.</i>	Tutor
Dudley, B. J., BSc(Econ) MA <i>Leic.</i>	Tutor
Oloko, O., BA <i>Durh.</i>	Tutor
Wali, O., BA <i>Lond.</i>	Asst. Tutor

**NIGERIAN INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH**

Barback, R. H., BSc(Econ) <i>Lond.</i>	Dir., Prof.
Bispham, W. M. L., BA <i>Camb.</i>	Sr. Res. Fellow
Ardener, E. W., BA <i>Lond.</i>	(Anthropol.) Res. Fellow
Hogg, V. W., BSc(Econ) DipEd <i>Lond.</i>	
	Res. Fellow
Adu, S. A., BSc <i>Wales</i>	Res. Fellow
Boston, MA BLitt <i>Oxon.</i>	Res. Fellow
Dobbin, Jennifer L. M., BA <i>Oxon.</i>	Jr. Res. Fellow
.....	Sec.

**ADMINISTRATIVE AND OTHER STAFF**

Dep. Registrar : ..... Acad. Sec. : .....  
 Asst. Registrar : ..... Chief Accountant : H.  
 Preston, Sr. Accountant : N. C. R. Bourne, BCom  
*Lond.* Accountant : J. C. A. Lamikanra, Estate  
 Manager : L. T. Chubb. Chief Engineer : A.  
 Williams, BSc *Birm.* Maintenance Officer : O. O.  
 Apampa. Electr. Engineer : I. Igiehon, BEng *Sheff.*  
 Motor Transport Officer : S. O. Akinwunmi. Clerk  
 of Works : S. Pearson. Catering Officer : M. A.  
 George. Asst. Catering Officer : S. T. Sonaike.  
 Dep. Librarian : J. Packman, BA *Lond.*, DipLib,  
 FLA. Sub-Librarians : Juliet O. Lindsay, MA  
*Edu* ; S. C. Nwoye, BA *Lond.* ; Elizabeth E.  
 Peeler, BS *Col.* ; Margot E. Thompson, BSc  
*Lond.* Asst. Librarians : C. C. Momah, BA  
*Lond.* ; S. B. Akpata, PhD *Praque.* Printing  
 Manager : E. Gresty. Principal's Sec. : Ailsa C.  
 Allan. Registrar's Sec. : Margaret E. Higgs,

BA *Lond.* Bursar's Sec. : Mrs. Ena M. Alele.  
 Admin. Assts. : I. A. Ilegbodu ; A. G. E.  
 Oradubanya, BA *Lond.* ; O. Sonubi, MA *Glas.* ;  
 Mrs. I. Fatayi-Williams ; ..... Med. Officers :  
 Margaret C. Newmark, MB BS DTM&H *Lond.* ;  
 B. Cynthia Stone, MB BS *Lond.* ; ..... Farm  
 Manager : G. E. Udom.

WARDENS OF HALLS OF RESIDENCE. Mellanby  
 Hall : D. F. Ojo, BSc PhD *Edin.* ; Tedder Hall :  
 J. O. Oyelese, BSc *Birm.* ; Kuti Hall : C. I. O.  
 Olaniyan, BSc PhD *Lond.* ; Sultan Bello Hall :  
 M. J. Banham, BA *Leeds* ; Q. Elizabeth Hall  
 (Women) : Jennifer M. L. Dobbin, BA *Oxon.* ;  
 Clin. Students' Hostel : O. Awe, BSc PhD *Lond.* ;  
 Old Site : C. C. Amobi, BA *Lond.*

LONDON OFFICE. London Representative :  
 Marjorie G. Chappell, MA *Lond.*

**GENERAL INFORMATION**

The coll. was opened in 1948 with a provisional  
 scheme of govt. In 1954 assent was given by the  
 governor on behalf of H.M. the Queen to an  
 ordinance enacted by the legislature of Nigeria,  
 the purpose of which was to reconstitute the  
 coll. on a permanent basis and to lay down its  
 constitution and govt. Under this ordinance, the  
 coll. became a body corporate with perpetual  
 succession and a common seal.

CONSTITUTION. The coll. council is the sup-  
 reme governing body and is charged with control  
 of finance. The senate is an academic body  
 which, generally, manages, and where necessary  
 advises the council upon, the educnl. affairs of the  
 coll. In respect of each fac. there is a fac. bd.  
 which deals with courses of study and exams. and  
 matters of detail concerning the work of the fac.  
 Fac. bds. are required also to deal with matters  
 referred to them by the senate. The coll. is open  
 to all classes and communities 'without any dis-  
 tinction whatsoever'.

INCOME. A grant was made under the colonial  
 development and welfare act towards the cost of  
 the permanent bldgs. The Nigerian govt. has  
 endowed the coll. and makes an annual grant. In  
 addition, endowments amounting to £1,175,000  
 have been received from the Nigerian Cocoa  
 Marketing Bd. There is also an endowment fund.  
 Income (1958-59) : £1,039,711 (incl. Nigerian  
 govt. annual subvention, £484,880; endowment  
 interest, etc., £363,660; student fees, £115,330;  
 rents and misc., £35,841).

FACULTIES AND DEANS. *Agric.*, Prof. R. J.  
 McIlroy ; *arts*, Prof. J. Ferguson (class.) ; *econ.*  
 & *soc. studies*, Prof. R. H. Barback (*econ.*) ;  
*engin.*, ..... ; *med.*, Prof. G. M. Edington  
 (*pathol.*) ; *sci.*, Prof. E. Njoku (*bot.*).

LIBRARY. 123,000 vols., 2321 current serial  
 publicns. Sp. collections include W. African hist.  
 and ethnol. (including 150 Arabic MSS.), trop.  
*agric.* and trop. *med.* The library is the legal  
 depository for all Nigerian publicns.

**LABORATORIES, FIELD STATIONS, ETC.** The fac. of agric. has its teaching, res. and admin. bldgs. and its own farm on the coll. site. On the farm, grassland res., crop and animal production are actively proceeding and small herds of Zebu and Ndama cattle, as well as poultry, swine, sheep and goats, are maintained. A considerable area is under mechanized cultivation. As part of res. into moisture conditions in Nigeria, measurements of evapo-transpiration at 10 installations, covering the Niger delta to the northern frontier, are being made.

**BOTANICAL GARDEN** of 80 acres. Mainly W. African plants grown. Arrangement for exchange and testing of economic plants with U.S. dept. of agric. *Index seminum* publ. annually. 1-acre herbal gdn. to study med. herbs in Nigeria.

**UNIVERSITY COLLEGE HOSPITAL.** Provisionally recognized for clin. teaching for MB BS of the Univ. of London under special relation with the univ.\*

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). Founded 1956, exists to promote res. into W. African educn., to assist trg. colls. assoc. with the inst. in solving problems with which they may be confronted, and to train teachers. 3 courses are offered, leading to postgrad. cert. in educn. of Univ. of London, coll. dipl. in educn. and univ. dipl. in child study.

**The NIGERIAN INST. OF SOCIAL AND ECONOMIC RESEARCH** (see also 'Teaching Staff', above) is the successor to the W. African Inst. of Soc. & Econ. Res. Sponsored by the Nigerian fed. govt. and (until Sept. 30, 1960) C.S.S.R.C., and by the univ. coll., with which it operates in close association, its functions are to conduct econ. and social res. and to provide a centre for indep. res. workers in Nigeria.

**LANGUAGE OF INSTRUCTION.** English.

**ADMISSION.** There are 2 methods of admission: (1) by passing the coll. entrance exam. Candidates are ordinarily eligible if they have passed the Cambridge school cert. exam. with passes at credit standard or obtained a general cert. of educn. with passes at ord. level in Engl. and 4 other subjects. (2) By direct entry. This is exemption from the entrance exam. and may be applied for by candidates who have satisfied the full minimum entry requirements of the Univ. of London together with the addnl. requirements for entry in specific degree subjects.

**ACADEMIC YEAR.** Oct. to June, 3 terms.

**FEES** for bd. and tuition. Agric., £157-£187 p.a.; arts, £127-£152 p.a.; educn., £180 p.a.; med., £162-£262 p.a.; sci., £132-£162 p.a. All students are resident.

**SCHOLARSHIPS, ETC.** Fees plus £75 p.a. for remainder of course awarded by coll. on prelim. exam. and on sessional exam. for direct entry in any fac.; Nigerian federal govt. awards annually

10 state scholps. covering fees, vacation allowances and allowance of £60 p.a. for degree course, Nigerian Cocoa Marketing Bd. (open to sons and daughters of cocoa farmers), fees, plus £50 p.a. (prelim. students), and £55 p.a. (degree students), and vacation allowances. Federal and regional govts. award bursaries similar to those of the N.C.M.B., to selected students in any fac.; John Holt scholp.; 'Cambridge' scholp.; Shell Co. of Nigeria scholp., Nigerian Tobacco Co. scholp., United Africa Co. scholp.; Lever scholp., Shell B.P. scholp.

**FIRST DEGREES** (of Univ. of London). The coll. has been admitted to a sp. relation with the Univ. of London\*, and courses of instructn. are given in preparation for degrees of that univ. The coll. staff co-operate with the Univ. of London in preparing syllabuses and in the exams. 2 yrs.—BA gen., BSc gen.; 3 yrs.—BA hons. (in classics, Engl., geog., Greek, hist., Latin, maths.), BSc spec. (in bot., chem., geog., maths., phys., zool.), BSc(Agric), BSc(Agric) hons., BSc(Econ), BD; 4 yrs.—BScEng; 6 yrs.—MB BS.

By arrangement with the Nigerian Coll. of Arts, Sci. and Technol., the courses for BSc(Eng) are given by the dept. of engin. at the Zaria branch of the coll., which has been recog. as the fac. of engin. of Univ. Coll., Ibadan.

**HIGHER DEGREES** (of Univ. of London). Postgrad. and res. facilities are available in arts, sci and agric. The coll. has started a 1-yr. course for the degree of MSc(Agric). Full-time members of the teaching staff may register as internal students for the PhD degree of the Univ. of London.

**DIPLOMAS.** 1 yr. (postgrad.)—postgrad. cert. in educn. (of Univ. of London), coll. dipl. in educn., coll. dipl. in child study.

**LIBRARIANSHIP COURSE.** 2 yrs.; 1st yr. spent in coll.

**VACATION COURSES**, involving residence in the coll., are conducted during the long vacation by the dept. of extra-mural studies.

**ADULT EDUCATION.** The dept. of extra-mural studies arranges classes throughout the 3 regions of Nigeria, the work being financially supported by the regional govts.

**RESIDENCE.** *Men:* Mellanby Hall (accomm. for 208 students), Tedder Hall (195), Kuti Hall (207), Sultan Bello Hall (100; being expanded), Clin. Students' Hostel (148), Old Site (120). *Women:* Q. Elizabeth Hall (99; being expanded).

Partly furnished **STAFF RESIDENCES** of varying types are provided in the coll. grounds.

**STUDENT HEALTH SERVICE** under the supervision of the coll. med. officers.

The **UNION** controls all student athletic and other extra-curricular activities. Student officers elected annually.

\* For a note on these 'special relationship' arrangements, see p. 973

The GUILD OF GRADUATES. All grads. of the coll. and all grad. members of staff are eligible for membership.

The UNIVERSITY BOOKSHOP, a limited company controlled by the coll., stocks undergrad. text-

books and selection of gen. lit. and operates mail supply service throughout Nigeria.

PUBLICATIONS. *Calendar* (annual, 3s. 6d.); *Principal's Annual Report*; *Library Record* (monthly).

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Rockefeller Foundation, £28,200 for res. & teaching in rural paediatrics and nutrition, £24,550 for res. & teaching in Arabic lang. and Islamic thought & culture; Ford Foundation, \$30,000 for purchase of soc. sci. books; Carnegie Corp., \$88,000 for library trg. course.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: arts block, maths. lab., biochem. bldg., extension to Mellanby and Tedder halls, senate bldg., sr. staff housing estate, inst. of educn., dept. of extra-mural studies.

RESIGNATIONS. A. Apara (admin. asst.), apptd. crown counsel, W. Region govt.; J. B. Beach (maintenance officer), apptd. to post in P.W.D.; Dr. G. K. Berrie (bot.), apptd. lectr. in bot., Syd.; A. T. von S. Bradshaw (classics); Miss M. E. Cain (Engl.), on marriage; Dr. H. S. Clausen (zool.), apptd. to res. post in Denmark; W. W. Dieneman (asst. librarian), apptd. librarian, Nigerian Coll. of Technol., Zaria branch; Dr. A. Dijkstra (chem.), apptd. to res. post in Holland; Mrs. E. I. Dijkstra (phys.), Dr. Phyllis M. Edwards (anæsthetics); A. Y. Èke (asst. registrar), apptd. sr. information officer, W. Region govt.; Dr. H. P. Graham (anæsthetics), apptd. sr. lectr. in anæsthetics, Liv.; Dr. V. A. P. Harris (zool.); R. W. R. Hoisington (phys.); Dr. J. Hope (phys.); Dr. C. H. Isong (econ.), apptd. sec. to Central Bank of Nigeria; Dr. R. Keeler (physiol.), apptd. to res. post, King's Coll., Newcastle; Dr. A. R. Mathieson (chem.), apptd. sr. lectr. in chem., Leeds; F. G. Ogwuazor (extra-mural tutor),

apptd. to E. Region govt.; Prof. F. W. Sansome (bot.), apptd. prof. of bot., U.C. Ghana; Dr. W. E. Saxton (hist.), apptd. asst. registrar, Durh.; V. W. Treadwell (hist.); Rev. M. F. Wiles (religious studies), apptd. lectr. in N.T. studies, Camb., and dean of Clare Coll.; Kay R. M. Williamson (phonetics), apptd. to res. post, Harv.; T. M. Yesufu (extra-mural tutor), apptd. to I.L.O., Geneva.

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	949	—
Women . . .	75	—
Total . . .	1024	—

Distribution by Faculties. *Agric.*, 70; *arts*, 423; *educn.*, 46; *med.*, 205; *sci.*, 272 *res.*, 8.

*Included in the figures above are* :—

Postgraduate students, 8.

Students from other countries, 20.

DEGREES AWARDED (1959). Special relationship with Univ. of London—*Agric.*: BSc(Agric), 10. *Arts*: BA, 24; BA (hons.), 28; MA, 1. *Sci.*: BSc., 7; BSc (spec.), 24. External degrees of Univ. of London—BA (hons.), 1; BSc (spec.), 4. *Total number of first degrees awarded*, 99.

CERTIFICATES AWARDED (1959). PGCE, 6; associateship in educn., 27.

# UNIVERSITY OF NIGERIA

Founded 1960

*Postal Address* : Nsukka, Nigeria, West Africa

*Cables and Telegrams* : Nigersity, Nsukka

*Telephone* : Nsukka Exchange

(London Representative, 33 Craven Terrace, W.2. *Telephone* : Paddington 7961)

CHAIRMAN OF PROVISIONAL COUNCIL—H.E. The Rt. Hon. N. AZIKIWE, MA MSc LLD DLitt

ACTING SECRETARY TO PROVISIONAL COUNCIL—B. CHUKWUDEBE, MA BSc Oxon.

ACTING PRINCIPAL—G. M. JOHNSON, MSc LLD Calif.

REGISTRAR—P. S. WRIGHT, MA Oxon.

BURSAR—J. MANGOLD

LIBRARIAN—.....

## TEACHING STAFF

### Economics

Cox-George, N. A., MSc PhD Lond.

Prof.  
Sr. Lectr.

Fashola, O.

Lectr.  
Lectr.

### Physical Education

Christian, Miss P. E. G.

Lectr

### Political Science

Blyden, E. N.

Sr. Lectr.

Lectr.

Asst. Lectr.

### English

.....  
Bordinat, P., PhD

Prof.  
Sr. Lectr.  
Lectr.  
Lectr.

### Sociology

.....  
Ndern, E. B.

Prof.

Lectr.

Lectr.

### History

Achufusi, M.

Prof.  
Sr. Lectr.  
Lectr.

### LOANED BY MICHIGAN STATE UNIVERSITY

Bright, N., MA *Mich.State* Admin. Officer

Davies, R., MA PhD *Mich.State* (Vocational Educn.) Prof.

Edwards, A., PhD *Mich.* (Econ.) Asst. Prof.

Ferguson, L. C., MA *Miami*, PhD *Ohio State* (Pol. Sci.) Prof.

Hanson, J. W., MA PhD *Ill.* (Educn.) Prof.

Hill, M. C., MA *Kansas*, PhD *Chic.* (Sociol.) Prof.

Loving, A. D., DEd *Wayne State* Dean of Students

Rumpsa, P. Consultant

### Mathematics

.....  
.....  
Russel, Rev. Father B., MSc HDipEd *Dub.*

Prof.  
Sr. Lectr.  
Lectr.

### Music

Echezona, W. W. C.

Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Dep. Registrar : V. Ike, BA Lond. Asst.

Registrar : H. C. Oguchi, LLB *Brist.* Asst.

Librarian : C. Okigbo, BA Lond. Med. Officer :

O. L. Ekpechi, MB BS Lond. Chief Accountant :

..... Univ. Engineer : C. C. Murray. Main-

tenance Engineer : O. G. Edozien.

## GENERAL INFORMATION

The univ. is an independent inst. to be governed by a council establd. by the Univ. of Nigeria Law 1955.

**CONSTITUTION.** The paramount governing body of the univ. is the council which is composed of the chancellor, chairman, principal, vice-principal and such other persons not exceeding 15 in number as may be provided for by the univ. statutes. The senate, which deals with academic matters, consists of the principal, deans of the several facs., dirs. of the several insts., all profs. of the univ., the librarian, the dir. of extra-mural studies and 2 members of the academic staff to be elected by congregation.

**INCOME.** The income of the univ. is derived from a 'Univ. of Nigeria Fund' which consists of an annual grant of half a million pounds from the Eastern Regional Marketing Bd.—a statutory corporation created by the govt. of Eastern Nigeria. The fund, which was set up as a result of an Eastern Regional directive of 1955, totalled £2,500,000 at Dec. 31, 1959. An addnl. source of income is expected from the development of a

large acreage of land which is being allocated to the univ. for this purpose on the lines of the land grant colls. of the U.S.A.

**FACULTIES.** Arts.

**LOCATION.** The univ. town of Nsukka is 40 miles from Enugu, the admin. capital of Eastern Nigeria. A total area of 1000 acres of land has been acquired for use by the univ. and a further 15,000 acres is contemplated for use by the univ. as an agric. and commercial site.

**FEES.** Inclusive fee for tuition and residence for undergrads. : £135 per academic yr.

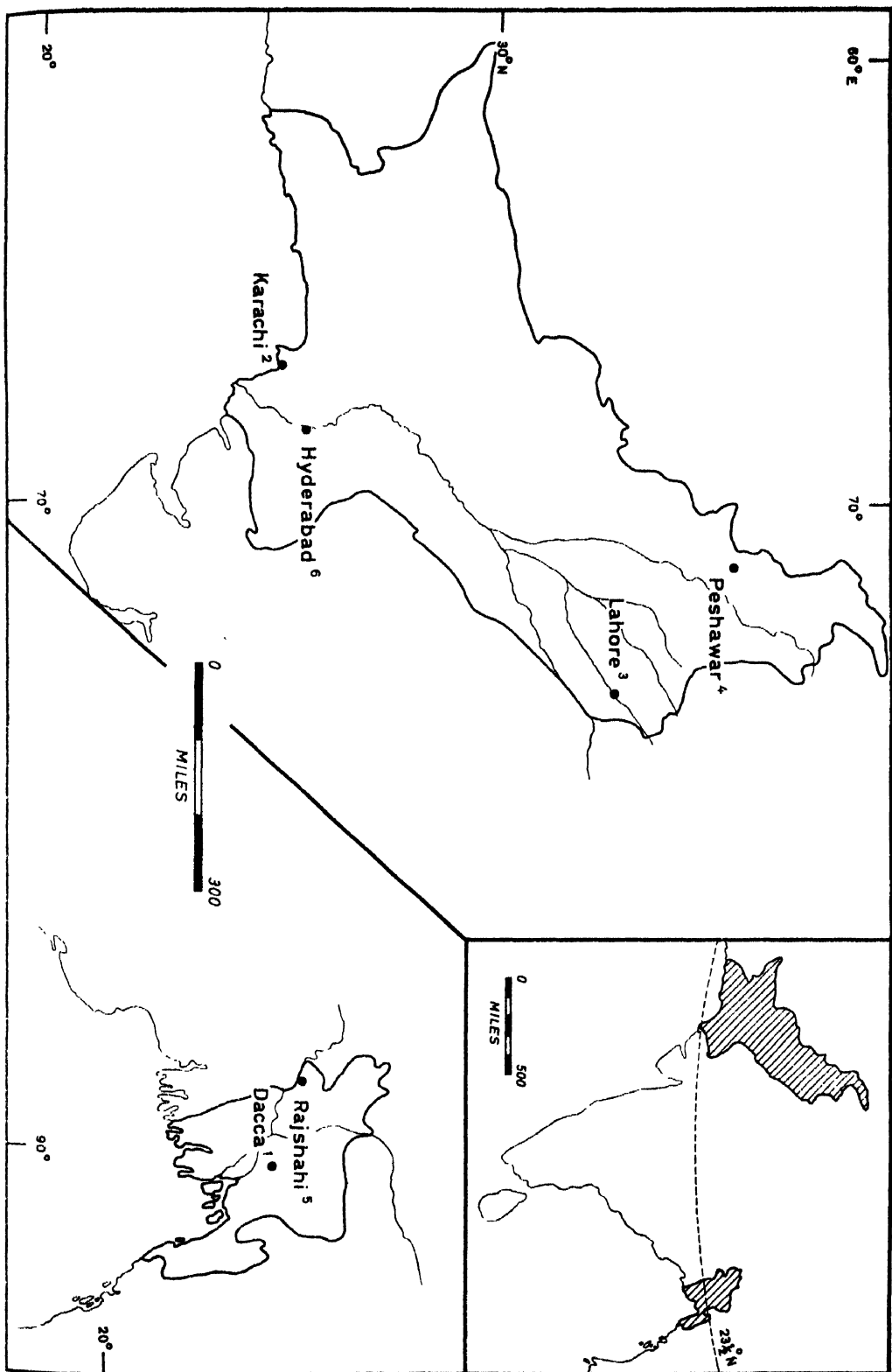
**ACADEMIC YEAR.** 3 terms of 10 wks. each, from Oct. 10 to June inclusive.

**LANGUAGE OF INSTRUCTION.** English.

**HALLS OF RESIDENCE.** The majority of students are accommodated in the univ. There are 2 halls of residence, one for men and one for women.

**STAFF RESIDENCES.** Staff accomm. is provided by the univ. at a rental not exceeding 7·7 per cent. of salary.





# THE UNIVERSITIES OF PAKISTAN

[Originally contributed by Dr. I. H. Zuberi, then Vice-Chancellor of Rajshahi University; subsequently revised by the Secretary of the Inter-University Board of Pakistan]

**HISTORY.** The universities of India and Pakistan have not developed from such famous ancient centres of learning and scholarship as Takshasila and Nalanda. Takshasila flourished as a centre of education only till the fifth century A.D., while Nalanda ceased to exist towards the end of the twelfth century.

In the mediæval period, while seats of Hindu learning remained in the east and south, the Muslim rulers evolved an elaborate system of higher education and encouraged the establishment of colleges at places like Delhi, Allahabad, Lucknow, Lahore, Rampur, Ajmer and Bidar. The curriculum in these colleges was somewhat similar to those in the mediæval European universities, that is, the *trivium*—grammar, logic and rhetoric—and the *quadrivium*—arithmetic, geometry, music and astronomy—and to these were added a study of philosophy, theology and Muslim law. Certain colleges specialized in particular subjects. For instance, the college at Lucknow specialized in theology and those at Rampur in logic and medicine; at Lahore, astronomy and mathematics were emphasized. The medium of instruction in these colleges (*madrasahs*) was mainly Arabic. Although most *madrasahs* disappeared or were absorbed in later institutions, some still exist and carry on the traditions of the older form of learning.

When the British succeeded the Muslims as rulers in India, they were slow to develop a distinctive system of higher education, and it was not until the beginning of the nineteenth century that English schools and colleges began to be established in presidency towns like Calcutta, Bombay and Madras.

In accordance with the recommendations of the famous despatch of Sir Charles Wood (1854), the court of directors of the East India Company established the universities of Calcutta, Bombay and Madras in 1857. The model for these universities was the newly established University of London, which was then a purely examining body. This has had an unfortunate effect on the development of higher education in the sub-continent, since the universities were slow to establish teaching departments of their own or to encourage intercollegiate instruction. It is significant that no other university was established till 1882, when the University of the Panjab was founded. The University of Allahabad was established in 1887 and thus there were only five universities till 1914. In 1914–20 a rapid development of higher education took place. Eleven

universities were established then largely because education became a provincial subject when provincial autonomy was granted in 1919, and there was democratic pressure in provincial parliaments for the rapid extension of facilities for higher education.

When Pakistan came into being on the partition of India, in 1947, there were only two well-established universities in the country, namely, the University of the Panjab (1882) and the University of Dacca (1920); the University of Sind had been created only a few months before partition and began to function at Karachi on April 3, 1947. Independence brought in its wake a significant movement for the development of higher education at an accelerated pace and three more universities were subsequently established, namely, the universities of Peshawar (1950), Karachi (1950) and Rajshahi (1953).

**STRUCTURE OF UNIVERSITIES.** There is no single pattern to which all the universities conform though all are now both teaching and affiliating institutions. The trend of present policy in the sub-continent is against the establishment of purely affiliating and examining universities.

Although Dacca began as a unitary teaching university whose jurisdiction was restricted to the city of Dacca, from 1947 it also assumed the functions of an affiliating university. Karachi is an affiliating university, whose jurisdiction is limited to the city of Karachi. It has, however, also organized teaching on a federative basis and all postgraduate and research teaching is under the direct control of the university. The structure of the Panjab is more complex. The university began as a purely affiliating institution but gradually developed its own teaching departments. It has three kinds of college under its jurisdiction: (i) university colleges which are maintained by the university itself; (ii) teaching colleges in Lahore which are maintained by the government of West Pakistan and private managing bodies (there is also a government technical college affiliated to the university but situated outside Lahore); (iii) affiliated colleges located in various districts. Peshawar is an affiliating as well as a teaching university; all the technical and professional colleges, in addition to the postgraduate teaching departments, are under its direct administrative and academic control. Sind has a limited number of postgraduate teaching departments of its own, most of the undergraduate teaching work being carried on in the affiliated

colleges. University teaching at *Rajshahi* is confined to the postgraduate level; all undergraduate teaching up to BA and BSc standard is carried on in the affiliated colleges.

**RELATIONSHIP TO GOVERNMENT.** All the universities were established by acts of provincial legislatures except Karachi, for which an act was passed by the central legislature since it is situated in the federal capital. All are corporate, autonomous bodies. All statutes and ordinances framed by the universities are subject to sanction by the provincial or federal government or the chancellor, as the case may be.

**FINANCE.** The annual grants made by provincial governments through their education departments constitute the main source of income of all the universities. University accounts are strictly audited by the accountant-generals of the provincial governments. During the last few years, the government of Pakistan have accepted the principle of making direct grants for various schemes submitted to them by the universities from time to time. These grants are not routed through the provincial governments and are at present awarded by an *ad hoc* committee appointed by the government of Pakistan on which the Vice-Chancellors' Committee of the Universities of Pakistan is represented.

The budgets of universities in Pakistan are formulated on an annual basis. They are first submitted to the syndicate or executive council, as the case may be, and then placed before a larger body called the senate or court. The ratio of government grant to total budget varies from one university to another, but the general pattern seems to be that government grants amount to more than one-half of the total annual income, the remaining income coming from such other sources as tuition fees, examination fees and fees for the registration of graduates.

**ADMISSION, STRUCTURE OF DEGREE COURSES, ETC.** After matriculation (which follows ten years of school attendance) students are admitted to intermediate or degree colleges where two-year courses lead to the intermediate examination in arts or science. BA and BSc pass degrees each take a further two years (three years for honours). The course for a master's degree in arts or science lasts for two years after the pass BA or pass BSc, or one year after an honours degree. The Inter-University Board of Pakistan has recommended the universities to adopt a three-year course for a bachelor's degree in arts or science, whether pass or honours, to be followed by a two-year course for the master's degree. In all universities the PhD course lasts for two or three years after the MA or MSc. Some universities do not hold their own entrance examinations but accept the intermediate certificate as a qualification for admission to a course leading to a pass or honours degree; others hold their own matriculation and intermediate examinations. Diplomas in education and foreign languages are awarded by some universities. English is the medium of

instruction in all universities and colleges (including intermediate colleges).

**TEACHING STAFF.** Professors, readers and lecturers are selected by committees which are usually composed of members of the faculties, academic board or council, and experts nominated by the chancellor. The appointments are made by the executive council or the syndicate of the university. There is no restriction with regard to the appointment of teachers of foreign nationality. Most of the teachers employed have gained their first degrees from universities in Pakistan or India and many have higher degrees from Europe, the U.K. or U.S.A.

The retiring age in most universities is sixty years. There is no pension scheme but the benefit of provident funds is available. There is no fixed provision for sabbatical leave but each university may grant study leave to its teachers for a period of two to three years.

Teaching at the undergraduate level is conducted by lectures and group discussions. The tutorial system has been introduced in all universities and at the honours and postgraduate level special attention is paid to tutorial and seminar work.

**STUDENTS.** The total student enrolment in 1956 was 87,554. This figure represents about 5 per cent. of those in high schools at the secondary level. In 1957, 45,631 students were enrolled at either undergraduate or postgraduate level (*i.e.* excluding intermediate students).

In Pakistan students enter college or university a little earlier than in the United Kingdom. The age of most students lies in the 16-19 range. On the basis of the 1951 census it has been estimated that the 16-20 age group forms about 10 per cent. of the entire population and that of this age group approximately 4 per cent. are students in intermediate or university classes.

The general level of fees is almost uniform and amounts to approximately £15 a year. Dacca, Panjab and Peshawar have hostels or halls of residence, while Karachi, Rajshahi and Sind are endeavouring to move to new campuses where similar facilities will be available. The cost of residence is about £57 a year.

**ACADEMIC YEAR.** At Dacca, Karachi and Rajshahi, the academic year normally begins in July and is divided into three terms: July-September, November-December and January-April. At Panjab and Peshawar the three terms are September/October-December, January-March, April-June. At Sind there are two terms: July-November, November-March.

**ADULT EDUCATION.** No adult education classes are conducted by the universities.

**INTER-UNIVERSITY ORGANIZATIONS.** The Inter-University Board of Pakistan was constituted in 1948 by the Ministry of Education, Government of Pakistan. The board consists of three members from each university, one being the vice-chancellor and the other two nominees of

and

the syndicate or the executive council (one of these nominees must be the principal of an affiliated college or the head of a teaching department). The chairman and the secretary of the board for 1961 are respectively Dr. M. Husain, Vice-Chancellor, University of Dacca, and Professor K. M. Hosain, MA *Alig.*, BA *Oxon.* (174-A Sindh Muslim Co-operative Housing Society, Karachi 3, West Pakistan.)

There is also a Standing Committee of Vice-Chancellors with well-defined powers. All the vice-chancellors are members *ex officio* of the Inter-University Board; the two other nominees of each university retire annually and are replaced by new nominees. The educational adviser to the government of Pakistan has the right to attend meetings of the board but has no power to vote.

The Inter-University Board created in 1953 an Inter-University Sports and Athletic Board which is responsible for organizing sports and athletics on a national basis.

A National Union of Students was formed in 1957.

**THE UNIVERSITIES TO-DAY.** The government of Pakistan have set up a planning board which has prepared an elaborate plan for the expansion and co-ordination of education over a five-year period. An attempt is being made to integrate all forms of higher education into one system in which educational standards will be comprehensively defined and maintained. It is being generally recognized in Pakistan that this can be achieved only by affirming the leadership of the universities in the cultural life of the nation and by making them the focal points of real and effective national policies for higher education. The planning board also recommended the setting up of a University Grants Committee on the model of the U.G.C. in Britain so that it may help the government as well as the universities in formulating long-range plans and in directing the expansion of the universities on a planned basis. The total expenditure on education by the central and provincial governments was raised from Rs. 62,294,000 (1948-49) to Rs. 130,138,000 (1953-1954); this represents an increase in the expenditure on education of from 5.3 per cent. of total revenue expenditure to 7.1 per cent. Subsequently this total expenditure rose to about Rs. 167,234,000.

Higher education in Pakistan is still based on the western concept of liberal education. Education is entirely secular, teachers and students being at liberty to pursue their studies or research free and unfettered from any political or theological bias. But with the phenomenal increase in student numbers the universities in Pakistan have become conscious of the role which they are destined to play in the national life of the country, and there is a general tendency to maintain and assert the continuity of Islamic traditions and idealism.

**INSTITUTIONS OF HIGHER EDUCATION OTHER THAN UNIVERSITIES.** Higher education in Paki-

stan is almost entirely confined to universities, there being hardly any independent professional or technical institutions providing postgraduate instruction. Medical, law and engineering colleges are constituent colleges of a university, are subject to the control of the university in academic matters but administratively are under the relevant government departments. The faculties and boards of studies relating to these colleges are formed according to university statutes and their conduct is regulated by the university's legislative and administrative organizations: the senate, the syndicate and the academic council. At present there are no teacher training faculties in universities but plans are being made for initiating courses in education as a part of the universities' teaching activity. Teacher training colleges, like the Central Training College, Lahore, are administered by the Government Directorate of Public Instruction and are intended to supply trained teachers for government secondary schools.

**NATIONAL EDUCATION COMMISSION.** The government of Pakistan has set up a National Education Commission, with wide terms of reference, which has been enquiring into the entire range of existing educational facilities in the country and has made recommendations for the reorientation and reorganization of the educational system, in the light of national needs. So far as university education is concerned, the commission was specifically asked to consider, *inter alia*, the constitution, administration, control and jurisdiction of universities; the finances of universities and colleges; admission requirements (including the place of the present intermediate courses); the length of degree courses (including post-graduate courses); advanced study and research; scientific and technological education; the need for the highest standards of teaching and research in the universities and colleges; the need for the co-ordination of specialist fields; the advancement of Islamic studies and oriental learning; the qualifications and conditions of service of university and college teachers; student discipline; the development of a tutorial system; and the system of examinations. The report of the commission has been published (*see below*). The chairman of the commission was Dr. S. M. Sharif, educational adviser and *ex-officio* secretary to the government of Pakistan, Ministry of Education, Karachi.

**FURTHER INFORMATION** (*see also the 'Publications' section in each university entry below*). Apart from the *Commonwealth Universities Yearbook*, the following handbook and official reports may be consulted:

*Handbook of the Universities of Pakistan, 1955-56.* (Inter-University Board of Pakistan, 1956.)

*Report of the Commission on National Education.* (Government of Pakistan Press, Karachi, 1960.)

Other Publications of the government of Pakistan: *The First Five Year Plan (1955-60): Education and Training* (1956).

*Six-Year National Plan of Educational Development for Pakistan, Part I (1951).*

*Proceedings of the Pakistan Educational Conference held on November 27, 1947, at Karachi.*

*Minutes of the Council of Technical Education for Pakistan, 1948.*

*Report of the Agriculture and Veterinary Education Committee, 1950.*

*Proceedings of the Advisory Board of Education for Pakistan* (published from time to time by the Ministry of Education, Government of Pakistan).

## DIRECTORY TO SUBJECTS OF STUDY

**RESEARCH DEGREES.** Most universities lay special emphasis on research. The following degrees are awarded: *Dacca*—PhD in arts or science, LLD, DLitt, DSc. *Karachi*—PhD in arts or science. *Panjab*—PhD in arts or science, LLD, DSc, DLitt, DOL. *Peshawar*—PhD in arts or science. *Rajshahi*—PhD in arts. *Sind*—DPhil, DEd.

**OTHER DEGREES, DIPLOMAS, ETC.** The following notes relate mainly to subjects that cannot be studied at all universities:

**Agriculture.** *Dacca*, *Panjab*, *Peshawar* and *Sind* award a bachelor's degree in agriculture; *Dacca*, *Panjab* and *Sind*, a master's degree also.

**Commerce.** All universities except *Peshawar* award a BCom; *Dacca*, *Karachi*, *Panjab* and *Rajshahi*, an MCom also.

**Dentistry** is taught at most universities only as part of the medical degree course; *Panjab* offers a BDS and MDS.

**Education.** The training of teachers for elementary schools is usually given in normal schools unconnected with the universities, but *Dacca* has a college for the training of teachers for primary schools (a diploma, and higher diploma, in education are awarded). Courses for teachers in secondary schools—*Dacca*, *Karachi*, *Peshawar* and *Sind* award the degree of bachelor of teaching (BT), *Panjab* the degree of bachelor of education (BED) and *Rajshahi* a diploma in education; the MEd is awarded by *Panjab*, *Rajshahi* and *Sind*, the MT by *Dacca* and the DEd by *Sind*.

**Engineering and Applied Science.** All universities except *Rajshahi* offer a bachelor's degree in engineering. In addition, a diploma in engineering is awarded by *Dacca* and an MScTech by the *Panjab*.

**Fine Arts.** MA course at the *Panjab*.

**Foreign Languages.** *Dacca*—junior and senior proficiency certificate in elementary German; *Karachi*—certificates in Bengali, French, German

and Spanish; *Panjab*—diplomas in French, German, Spanish and Turkish. *Peshawar*—diplomas in French and German.

**Forestry.** *Peshawar* offers a pass and an honours degree.

**Home Economics.** *Panjab* and *Peshawar* offer a bachelor's degree.

**International Relations.** *Dacca* offers an MA, and *Panjab* a postgraduate diploma (evening classes) in international affairs.

**Journalism.** A diploma is awarded by *Karachi* and *Panjab*.

**Law.** All universities award an LLB; *Dacca* and *Panjab* an LLM and LLD in addition.

**Medicine.** The degrees of MB BS are awarded by all universities except *Rajshahi*; *Panjab* also offers an MD and *Sind* a BUMS.

**Oriental Learning.** *Dacca* has a department of Islamic studies which offers courses leading to a bachelor's degree. *Karachi* has a faculty of Islamic learning. *Panjab* offers the following degrees in oriental learning: BOL, MOI, DOL. *Peshawar* holds examinations for proficiency, high proficiency and honours in oriental learning and has a department of Islamiyat which offers courses leading to the degrees of BA and MA in Islamiyat. *Sind* has a faculty of Islamic studies under which are grouped departments of religion, Islamic culture and Muslim history.

**Pharmacy.** *Panjab*—BSc.

**Public Administration.** *Karachi* has an institute of business and public administration and awards the degrees of master of public administration and master of business administration. Specialization in public administration forms part of course for MA in political science at the *Panjab*.

**Social Work.** *Panjab*—MA.

**Veterinary Science.** *Dacca*—BSc(AH), LVS (licentiate in veterinary science). *Panjab*—BSc(AH).



**Economics**

.....	
Huda, M. N., PhD <i>Corn.</i> , MA	Prof.
Huq, M., PhD <i>Lond.</i> , MA	Reader
Islam, N., MA PhD <i>Harv.</i>	Reader
Mahmood, A. N. M., MA	(on leave) Lectr.
Dhar, H., MA	Lectr.
Allam, S. N., MA MSS <i>Inst. for Soc. Studies</i> ( <i>The Hague</i> ), MA	Lectr.
Sobhan, R., BA	Lectr.
Ahmad, A. S. M. M., MA	(on leave) Lectr.
Razzak, A., MA	(on leave) Lectr.
Hossain, K. T., MA	(on leave) Jr. Lectr.
Rahman, M. A., MA	Temp. Lectr.
Ahmad, M., MA	(on leave) Temp. Lectr.
Islam, A. I., MA	Fellow
Khan, A. R., MA	Fellow
Rahim, A. M. A., MA	Fellow
Hossain, M., MA	Fellow

**English**

Hossain, S. S., MA PhD <i>Nott.</i>	Prof.
Gomes, R. A., MA	Reader
Thakurta, J. G., MA	Lectr.
Khan, M. S., PhD <i>Nott.</i> , MA	Lectr.
Roy, B. C., MA	Lectr.
Munim, K. M. A., MA	Lectr.
Chowdhury, A. F. S. I., MA	(on leave) Lectr.
Karim, M. E., MA	Temp. Lectr.
Hena, A., MA	Supernumerary Teacher

**Geography**

Ahmad, N., MA PhD <i>Lond.</i>	Prof.
Rizvi, A. I. H., MA <i>Alig.</i> , PhD <i>Louisiana</i>	Lectr.
Khan, F. K., MA <i>Alig.</i> , PhD <i>Louisiana</i>	Lectr.
Siddiqui, A. H., MA <i>Lond.</i>	Lectr.
Naqavi, S. H. H., MA <i>N. Carolina</i>	(on leave) Lectr.
Huq, M. A. Q. L., MSc	Lectr.
Islam, M. A., MSc	Lectr.

**Geology**

Latif, M. A., MSc <i>Calc.</i> , PhD <i>Lond.</i>	Reader
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**History**

Halim, A., MA PhD	Prof.
Dani, A. H., MA PhD <i>Lond.</i>	Reader
Kabir, M., MA PhD <i>Lond.</i>	Reader
Sayeed, A. F. M., MA	Lectr.
Bhattacharyya, S. C., MA	Lectr.
Rahman, W., MA	Lectr.
Karim, A., MA PhD	Lectr.
Khair, M. A., MA	(on leave) Lectr.
Ali, M. M., MA	Lectr.
Ahmad, G., MA	Temp. Lectr.

**International Relations**

Aziz, M. A., MA PhD <i>Lond.</i> , MSS <i>Inst. for Soc. Studies (The Hague)</i>	Prof.
Siddiqua Huda, Mrs. Ummekulsum K., MA	Lectr.
	Lectr.

Khan, R. A., MA	Lectr.
Rafiq, Mrs. L.	(German) Teacher

**Islamic History and Culture**

Habibullah, A. B. M., MA <i>Calc.</i> , PhD DipLib <i>Lond.</i> , FLA	Prof.
Khan, A. M., MA <i>Calc.</i>	Lectr.
.....	Lectr.
Imamuddin, S. M., MA DPhil <i>Calc.</i>	Lectr.
Islam, M. S., MA <i>Calc.</i>	(on leave) Lectr.
Karim, M. R., MA	Lectr.
Tarafdar, M. M. R., MA	Lectr.
Alim, A. K. M. A., MA	Temp. Lectr.
Hasan, S. M., MA	Temp. Lectr.
Hashimi, A. R.	† Lectr.

**Law**

.....	Sr. Prof
Siddiqui, N. U. A., MA BCL <i>Oxon.</i> , LLD <i>Dub.</i>	Prof.
Ansari, S., LLM MA	(on leave) Reader
Momen, M. N., BL <i>Calc.</i>	Lectr.
Kabir, L., LLB	Lectr.
Sahabuddin, M., LLB <i>Camb. &amp; Calc.</i>	Temp. Lectr.
Ahmad, M., MA LLB	Temp. Lectr.
De, B. K., MA BL <i>Calc.</i>	† Lectr.
Khan, A., MA LLB	† Lectr.
Hakim, M., MA	† Lectr.
Mostafa, A. T. M., MA	† Lectr.
Choudhury, A. S., MA BL <i>Calc.</i>	† Lectr.
Khondkar, A. B., LLB	† Lectr.
Sobhan, A.	† Lectr.
Rahman, S. M. S., MA	† Lectr.
Ali, M. S., BSc LLM PhD <i>Lond.</i>	† Lectr.

**Mathematics**

.....	Prof.
Huq, S. M. A., MSc PhD <i>Lond.</i>	(on leave) Reader
Rahman, M., MA PhD <i>McG.</i>	Temp. Reader
Khalifa, A. R., MSc <i>Calc.</i>	Lectr.
Sardar, R. A., BA <i>Camb.</i> , MSc	Lectr.
Huq, M. S., MA MSc	Lectr.
Husain, D., MSc	(on leave) Lectr.
Gaffur, A., MSc	Temp. Jr. Lectr.

**Persian and Urdu**

Shadani, W. H. A., MA <i>Panj.</i> , PhD <i>Lond.</i>	Prof.
Huda, M. Z., MA <i>Patna</i>	Lectr.
Chaudhury, A. M. F. A., MA	Lectr.
Siddiqui, A. A., MA PhD <i>Alig.</i>	Lectr.
Sabzwari, S. S. A., MA <i>Calc. &amp; Agra</i> , PhD	(on leave) Lectr.
Fauq, M. H. Q., MA	Temp. Lectr.

**Philosophy**

Jilani, G., MA PhD <i>Lond.</i>	Prof.
Deb, G. C., MA PhD <i>Calc.</i>	Lectr.
Fakhruzzaman, M., MA	Lectr.
Rob, M. A., MA	Lectr.
Matin, A., MA	Lectr.

**Physics**

Ali, I., MEE N. Y., MSc PhD Lond.	Prof.
Chaudhury, A. M., MSc PhD Lond., FRMetS	Reader
Rahman, S. M. F., MEE <i>Purdue</i> , MSc	Reader
Biswas, S. C., MSc	Lectr.
Huq, M. S., MSc <i>McG. &amp; Dacca</i>	Lectr.
Emran, M., MSc	Temp. Lectr.
Siddiq, A. K. M., PhD <i>Sask.</i> , MSc	Lectr.
Hussain, M. A. M. M., MSc (on leave)	Lectr.
Ahmad, S., MSc	Lectr.
Islam, M., MSc (on leave)	Lectr.
Sen Gupta, H., MSc	Lectr.
Kamal, A. N., MSc (on leave)	Lectr.
Harun-ar-Rashid, A. M., MSc (on leave)	Jr. Lectr.
Ali, S., MSc	Temp. Lectr.

**Political Science**

Newman, K. J., LLD <i>Prague</i> , DPhil <i>Oxon.</i>	Prof.
Chowdhury, G. W., MA PhD <i>Col.</i>	Reader
Rahman, M., MA	Lectr.
Chaudhury, M. A., MA PhD	Lectr.
Ali, S. M. M., MA	Lectr.
Miah, N. M., MA	Lectr.
Noorazzaman, A. H. M., MA	Lectr.
Hoque, M. M., MA	Lectr.
Rashiduzzaman, M., MA	Lectr.
Ahmad, M., MA PhD	Jr. Lectr.
Haq, M., MA	Temp. Jr. Lectr.

**Sanskrit, see Bengali**

**Sociology**

Karim, A. K. N., MA <i>Col.</i>	Reader
Afsaruddin, M., MA	(on leave) Lectr.

Obaidullah, M., MA	†Lectr.
Op't Iand, C.	Unesco Jr. Dutch Expert
Langerhans, H.	Supernumerary Teacher

**Soil Science**

Ghani, M. O., PhD <i>Lond.</i> , MSc (on leave)	Prof.
Karim, A. Q. M. B., MSc <i>Alig.</i> , PhD <i>Lond.</i>	(on leave) Reader
Karim, A., MSc PhD <i>Adel.</i>	Temp. Reader
Zoha, S. M. S., MSc <i>Alig.</i> , MScTech <i>Manc.</i>	(on leave) Lectr.
Huq, A. K. M. F., MSc PhD <i>McG.</i>	Lectr.
Choudhury, M. S., MSc	Lectr.
Bhuiya, M. Z. H., MSc	Lectr.
Ali, H., MSc	Lectr.
Islam, A., MSc	Lectr.
1 Lab. Asst.	

**Statistics**

Husain, Q. M., MA <i>Calc.</i> , PhD	Prof.
Maniruzzaman, A. N. M., MSc	Lectr.
Atiqullah, M., MA	Lectr.
Obaidullah, M., MSc	Lectr.
Qamaruddin, M., MA	Temp. Lectr.

**Urdu, see Persian**

**Zoology**

Yousufzai, H. K., MSc DPhil <i>Alld.</i> , PhD <i>Qu.</i>	Reader
Shafiq, S. A., MSc <i>Alld.</i> , DPhil <i>Oxon.</i>	Lectr.
Khan, A. W., MSc <i>Calc.</i>	Temp. Lectr.
Bhuiyan, A. L., MSc	Lectr.
Salehuddin, A. S. M., MSc	Temp. Lectr.
Khan, M. A. A., MSc	Jr. Lectr.
1 Lab. Asst.	

**ADMINISTRATIVE AND OTHER STAFF**

Inspector of Colls. : A. M. Choudhury, MA.  
 Med. Officer : M. H. Rahman, BSc MB *Calc.*,  
 DCH *Dub.* ; Addtnl. Med. Officer : Capt. S.  
 Ahmad, MB *Calc.* ; Addtnl. Asst. Med. Officer :  
 M. Mortaza, MB BS. Asst. Registrar : K. C.  
 Chowdhury, BA. Controller of Exams. : M. R.  
 Khan, MA ; Asst. Controller of Exams. : F.  
 Haq, BA. Sec. to Vice-Chancellor : A. Z. Khan,  
 MA. Proctor : N. Momen, BL. Officer-in-  
 charge, Univ. Students' Information Bureau :  
 K. C. Chowdhury, BA. Dir. of Phys. Educn. :  
 Major M. Rahman, BA ; Phys. Instrs. : M.  
 Ahmad, BA, K. C. Roy. Accounts Officer : S. K.

Rahmatali, BA. Executive Engineer : M.  
 Rahman, BE *Calc.* Steward : M. Dabiruddin  
 Meah. Press Manager : M. Choudhury, BSc.  
 Asst. Librarian : A. R. Mirdah, BA. Electrical  
 Engineer : Keshab Chandra Karmaker.

Provosts of Halls. Salimullah Muslim Hall :  
 M. Huq, MA PhD *Lond.* ; Fazlul Huq Muslim  
 Hall : M. Safiullah, MA *Calc.*, BCom *Lond.* ;  
 Dacca Hall : M. Rahman, MSc PhD ; Jagan-  
 nath Hall : G. C. Deb, MA PhD *Calc.* ; Iqbal  
 Hall : M. Ahmed, MSc PhD *Penn.* ; Women's  
 Hall : Mrs. Akhtar Imam, MA *Lond. & Dacca.*

**CONSTITUENT COLLEGES**

[IA, BSc(Engin), etc., after the name of a coll. means that courses are provided there for  
 Intermediate Arts, BSc(Engin), etc.]

DACCA, *Ahsanullah Engineering College*, Ramna.  
 BSc(Engin), Dipl. in engin. Principal—M. A.

Rashid, BE *Calc.*, MS DSc *CarnegieTech.Inst.*  
 60 other Teachers.



DACCA, *College of Physical Education*, 1 Municipal Rd., Victoria Park. Dipl. in phys. educn. Principal—M. K. Ali, BA DiplPhysEd. 6 other Teachers.

DACCA, *College of Social Welfare and Research Centre*, 84 Shantinagar. MA in soc. welfare. Principal—A. K. Ahmadullah, MA MCom MSc. 12 other Teachers.

DACCA, *Dacca Medical College*, Ramna. MB BS. Principal—H. U. Ahmed, MB Calc., DGO Dub., FRCSEd, FACS. 43 other Teachers.

DACCA, *East Pakistan Agricultural Institute*, Tejgaon. BAg, MAg. Principal—F. Ahmed, MS Ohio, MSc MA BT (Dean, Fac. of Agric.). 11 other Teachers.

DACCA, *Teachers' Training College*, Dhanmon-dai. BEd (group A), MEd. Principal—M. O Ghani, DipEd Lond., MA BT. 16 other Teachers.

MYMENSINGH, *East Pakistan College of Veterinary Science and Animal Husbandry*, Keot Khali, Mymensingh. BSc(AH), LVS. Principal—S. M Ali, BSc Calc. 24 other Teachers.

MYMENSINGH, *Teachers' Training College*. BEd (groups B and C), MA in educn. Principal—K. A. F. M. A. Quasem, MA BT Calc., MS in Educn S.III. 15 other Teachers.

MYMENSINGH, *Women's Training College*. BEd (group B). Principal—Miss Azizun Nessa, MEd Arizona, MA BT. 10 other Teachers.

## AFFILIATED COLLEGES

BARISAL, *B.M. College*. BA, BSc, BCom, IA, ISc, ICom. Principal—A. K. M. Kabir, MA. 37 other Teachers.

BARISAL, *Fazlul Huq College*, Chakhar. BA, IA, ISc, ICom. Principal—E. Karim, MA MCom LLB. 15 other Teachers.

BARISAL, *Patnakhali College*, Patnakhali. IA, ICom. Principal—S. A. Ali, MA. 11 other Teachers.

BARISAL, *Women's College*. IA. Principal—M. Kabir, MSc. 12 other Teachers.

BARISAL (PIROJPUR), *H. S. Suhrawardy College*. IA, ICom. Principal—A. H. M. A. Quddus, MA. 9 other Teachers.

CHITTAGONG, *Chittagong College*. BA, BSc, IA, ISc. Principal—A. F. M. Muzaffar Ahmed, MA. 42 other Teachers.

CHITTAGONG, *Chittagong Night College*. BA, BCom, IA, ICom. Principal—A. A. R. Karim, MA. 10 other Teachers.

CHITTAGONG, *Chittagong Women's College*. IA. Principal—Miss Firdaus Ara Sabeth, MA. 18 other Teachers.

CHITTAGONG, *East Pakistan Cadet College*. IA, ISc. Principal—Lt.-Col. W. M. Brown, MA Camb.

CHITTAGONG, *Govt. College of Commerce*. BCom, ICom. Principal—A. S. Khan Choudhury, MA BT. 15 other Teachers.

CHITTAGONG, *Islamic Intermediate College*. IA, IIS. Principal—H. M. Abdul Hai, MA. 7 other Teachers.

CHITTAGONG, *Law College*. LLB. Principal—U. N. Siddiqui, BL Calc. 6 other Teachers.

CHITTAGONG, *Satkania College*, Satkania. IA, ICom. Principal—A. M. Md. Ibrahim, MA Calc. 9 other Teachers.

CHITTAGONG (KANUNGOPARA), *Sir Asutosh College*. BA, IA, ISc, ICom. Principal—M. L. Nag, MA Calc. 23 other Teachers.

CHITTAGONG (NAZIRHAT), *Nazirhat College*. IA, ICom. Principal—M. B. Ghani, MA. 12 other Teachers.

COMILLA, *Victoria College*. BA, BSc, IA, ISc, ICom. Principal—S. Rahman, MA. 45 other Teachers.

DACCA, *Central Women's College*. IA, BA. Principal—Mrs. B. Mahmuda Nasir. 18 other Teachers.

DACCA, *Dacca City Night College*. IA, ICom. Principal—N. Ahmed, MA. 8 other Teachers.

DACCA, *Dacca College*. BA, BSc, BCom, IA, ISc, ICom. Principal—M. U. Ahamed, MA Ton. 56 other Teachers.

DACCA, *Eden Girls' College*. BA, BSc, IA, ISc. Principal—Mrs. Zebunnessa Rahman, MA. 42 other Teachers.

DACCA, *Imperial Salimullah Intermediate College*. IA, ICom. Principal—K. P. Banerjee, MA Calc. 19 other Teachers.

DACCA, *Islamic Intermediate College*. IIS. Principal—A. S. Mahmood, MA. 11 other Teachers.

DACCA, *Jagannath College*. BA, BSc, BCom, IA, ISc, ICom. Principal—S. Sharafuddin, MA BL. 54 other Teachers.

DACCA, *Law College*. LLB. Principal—Alum-Al-Razee, MA PhD Lond. 12 other Teachers.

DACCA, *Narsingdi College*, Narsingdi. BA, IA, ICom. Principal—D. M. Azraf, MA. 14 other Teachers.

DACCA, *Notre Dame College*. BA, IA, ISc. Actg. Principal—Rev. T. A. Ganguly, PhD Notre Dame. 22 other Teachers.

DACCA, *Quaid-i-Azam College*. BA, BSc, BCom, IA, ISc, ICom. Principal—A. M. A. R. Fatmi. 43 other Teachers.

DACCA (MANIKGANJ), *Devendra College*. BA, IA, ICom. Principal—M. Ahmed, MA. 11 other Teachers.

DACCA (MUNSHIGANJ), *Haraganga College*. BA, BCom, IA, ICom, ISc. Principal—S. Azimuddin, MA *Calc.* 21 other Teachers.

DACCA (NARAYANGANJ), *Tolaram College*. BCom, IA, ISc, ICom. Principal—K. N. Chakraborty, MA *Calc.* 12 other Teachers.

DACCA (TEJGAON), *Holy Cross College*. BA, IA. Principal—Sr. Augustine Marie, MA *Loyola*. 13 other Teachers.

FARIDPUR, *Quaid-e-Azam Memorial College*, Gopalganj. IA, ICom. Principal—H. Ahmad, MA. 16 other Teachers.

FARIDPUR, *Rajendra College*. BA, BSc, IA, ISc. Principal—A. F. Waheed, MA. 21 other Teachers.

FARIDPUR, *Ramdia College*. IA, ICom. Principal—A. K. M. Rafiqul Alam, MA. 8 other Teachers.

FARIDPUR (MADARIPUR), *Nazimuddin College*. BA, IA. Principal—K. B. Kaviraj, MA. 11 other Teachers.

MYMENSINGH, *Ananda Mohan College*. BA, BSc, IA, ISc, ICom. Principal—S. B. Hossain, MA. 35 other Teachers.

MYMENSINGH, *Bhuapur College*, Bhuapur. IA. Principal—K. Ahmed, MA *Calc.* 6 other Teachers.

MYMENSINGH, *Nasirabad College*. IA, IIS. Principal—R. Ahmed, MA BT. 12 other Teachers.

MYMENSINGH, *Netrokona College*, Netrokona. IA, ICom. Principal—D. Rahman, MA. 10 other Teachers.

MYMENSINGH (BHAIRAB), *Haji Asmat College*. IA, ICom. Principal—A. Ahmed, MA. 8 other Teachers.

MYMENSINGH (GAFFORGAON), *Gafforgaon College*. IA. Principal—A. Malik, MA. 7 other Teachers.

MYMENSINGH (JAMALPUR), *Asheq Mahmud College*. BA, IA. Principal—H. Rahman, MA. 12 other Teachers.

MYMENSINGH (KAGMARI), *Moulana Muhammad*

*Ali College*, Tangail. IA, ICom. Principal—A. Jalil, MA. 7 other Teachers.

MYMENSINGH (KARATIA), *Saadat College*, Tangail. BA, BCom, IA, ISc, ICom. Principal—T. Ahmed, MA. 20 other Teachers.

MYMENSINGH (KISHOREGANJ), *Gurudayal College*. BA, IA, ISc, ICom. Principal—M. Wasimuddin, MA. 21 other Teachers.

MYMENSINGH (TANGAIL), *Kumudini Girls' College*. BA, IA. Principal—Mrs. N. A. Hameed, MA *Luck.* 10 other Teachers.

NOAKHALI, *Chaumuhini College*. BA, IA, ISc, ICom. Principal—T. Hossain, MA. 17 other Teachers.

NOAKHALI, *Feni College*, Feni. BA, IA, ISc, ICom. Principal—G. M. A. Mannon, MA. 16 other Teachers.

SYLHET, *M.C. College*. BA, BSc, IA, ISc, ICom. Principal—Md. S. Choudhury, MSc BT. 46 other Teachers.

SYLHET, *M.M. College*. IA, ICom. Principal—P. C. Goswami, MA *Calc.* 11 other Teachers.

SYLHET, *Women's College*. BA, IA. Principal—H. Choudhury, MA. 15 other Teachers.

SYLHET (HABIGANJ), *Brindaban College*. BA, BCom., IA, ICom. Principal—M. Huq Choudhury, MA. 37 other Teachers.

SYLHET (MOULVI BAZAR), *Moulvi Bazar College*. IA, ICom. Principal—A. R. Choudhury, MA. 9 other Teachers.

SYLHET (SUNAMGANJ), *Sunamganj College*. IA, ISc. Principal—A. K. Shams, MA. 9 other Teachers.

TIPPERAH, *Brahmanbaria College*. IA, ICom. Principal—A. Azhar, MA. 8 other Teachers.

TIPPERAH, *Chandpur College*. IA, ISc, ICom. Principal—A. W. Khan Choudhury, MA BT *Calc.* 20 other Teachers.

TIPPERAH (PASCHIMGAON), *Nawab Faizunnessa Islamic Intermediate College*. IA, IIS. Offg. Principal—S. Rahman, MA. 7 other Teachers.

## GENERAL INFORMATION

The univ. was establd. in 1921 under the Govt. of India Act XVIII of 1920, which was based on the recommendations of the Calcutta Univ. Commission presided over by Sir Michael Sadler, as a unitary, teaching and residential univ. with a constitution similar in many respects to those of mod. English univs. Following the creation in 1947 of the province of E. Bengal as part of Pakistan, the E. Bengal educnl. ordinance, 1947, was promulgated, by which the univ., without prejudice to its original character as a teaching and residential univ., was entrusted with sole authority to recognize and affiliate all educnl.

instns. in E. Bengal above matric. and high Madrassa standard. Accordingly, in 1947, the univ. affiliated 55 1st and 2nd grade colls. throughout the whole of E. Bengal, as well as several other instns.

CONSTITUTION. The authorities of the univ. include the court, the executive council, the academic council and the facs.

The court consists of about 170 members, incl. *ex-officio* members, reps. of the registered grads., of the affiliated colls. and of assocns. approved by the chancellor, etc. It has the power of making

and amending statutes, of considering and cancelling ordinances and of passing resolutions on the annual report and the annual accts. and financial estimates.

The executive council is the executive body of the univ. and consists, besides *ex-officio* members, of reps. of the court, of the affiliated colls., etc. Its main functions are to hold, control and administer the funds of the univ. and to regulate and determine all matters concerning the univ. in accordance with the Dacca Univ. Act, statutes and ordinances.

The academic council is the academic body of the univ. and consists, besides *ex-officio* members, of reps. of the affiliated colls., etc. Its main functions are to control and maintain the standard of instructn., educn. and exams.

Each of the 7 facs. has charge of teaching, courses of study and res. work, subject to the control of the academic council.

**INCOME (1958-59).** Capital acct., Rs. 225,286. Recurring acct., Rs. 3,573,214 (govt. grants, Rs. 1,814,905; fees, Rs. 541,082; press & publicns., Rs. 110,078; misc., Rs. 1,109,149).

**FACULTIES AND DEANS.** *Agric.*, F. Ahmed; *arts*, Prof. A. Halim (hist.); *educn.*, M. O. Ghani; *engin.*, Dr. M. A. Rashid; *law*, Prof. N. U. A. Siddiqui; *med.*, Lt.-Col. M. M. Huq; *sci.*, Prof. Q. M. Husain (stats.).

**UNIVERSITY PRECINCT.** The univ. area covers about a sq. ml. of fine parkland, incl. over 100 acres of playing fields, and lies about 1 ml. N.W. of the centre of Dacca city.

**LIBRARIES, ETC.** Univ. library: over 150,000 vols. and about 25,000 Sansk., Bengali, Arabic, Urdu and Punthi MSS. Reading room. Separate sci. library. Each hall of residence has a library.

**LABORATORIES.** Bot., chem., geog., geol., phys., psychol., soil sci., stats., zool.

The usual **LANGUAGE OF INSTRUCTION** is English.

**ADMISSION.** Min. standard required for entry to degree courses is that of the univ. inter. exam. or equivalent.

**FIRST DEGREES.** 2 yrs. from inter. (3rd yr. for hons.)—BA, BCom, BSc; 3 yrs.—BAg; 4 yrs.—BSc(Engin); 5 yrs.—BSc(AH), MB BS.

**HIGHER DEGREES.** 1 yr.—BEd; 2 yrs. (1 yr. for hons. BA or BSc of the univ.)—MA, MSc; 2 yrs.—LLB, MCom, MAG; 3 yrs.—LLM. Also PhD, DLitt, DSc, LLD, open to grads. of 3 yrs.' standing, but grads. of other univs. must pursue res. in this univ. for 2 yrs.

**DIPLOMAS AND CERTIFICATES.** Dipl. in engin., 3 yrs.; licentiate in vet. sci. (LVS), 3 yrs.; dipl. in phys. educn., dipl. in military sci., each 1 yr.; jr. & sr. proficiency cert. courses in elem. German, 1 yr.; cert. in geog., 1 yr.; IA, ISc, ICom and IIS, 2 yrs. each.

**FEES.** Tuition, per session: BA (pass), BA hons., BSc (pass), BCom, LLB, Rs. 120; BSc hons., MA, MCom, Rs. 144; MSc, Rs. 180. Registration, Rs. 6 (res. students, Rs. 20); admission, Rs. 8; athletic, Rs. 5; students' union, Rs. 8; migration fee, Rs. 10; transfer fee, one month's tuition fee; enrolment of registered grads., Rs. 10 (for life, Rs. 100). Hostels: seat-rent varies from Rs. 2 to Rs. 4 p.m., including cost of light, water, med. attendance, medicine and servants. Cost of food about Rs. 35 p.m.

**ACADEMIC YEAR.** July to April, 3 terms. Term dates (approx.): July 18 to Sept. 23; Oct. 18 to Dec. 22; Jan. 4 to April 22.

**TUTORIAL CLASSES** are organized in all depts. and all univ. teachers participate under the control of the hds. of depts. and provosts.

**RESIDENCE.** Students reading in the univ. itself must live either in one of the halls of residence or under spec. approved conditions. Halls for Muslims: Salimullah Hall (accomm. for 400 students), Fazlul Huq Hall (370), Iqbal Hall (258), for non-Muslims: Jagannath Hall (160); for all students: Dacca Hall (300). Women Students' Residence (33). For provosts, see p. 675. Some univ. teachers live in houses within the univ. area.

**STUDENT HEALTH SERVICE.** On admission to the univ. for the first time each student is medically examined. All students receive free med. attention. Resident students also receive med. care in the halls. There is 1 med. officer, 2 asst. med. officers and 1 pt.-time lady med. officer.

**PHYSICAL EDUCATION.** After exam. by the med. officer, each student must undergo regular courses of phys. educn. in the well-equipped gymnasium. Coaching is also given in various sports.

The **STUDENTS' INFORMATION BUREAU** assists students to secure admission to foreign univs. and other insts. The bureau library contains up-to-date calendars, handbooks, pamphlets and prospectuses of foreign educn. and technical insts. for reference by students.

**UNIV. OFFICERS' TRAINING CORPS.** One bn., commanded by Major M. Rahman. Adjutant, Capt. A. T. M. A. Haleem Chowdhury.

**PUBLICATIONS.** *Prospectus* (free); *Annual Report* (free); *Syllabuses* and *Bulletins*, various prices; *Calendar*, Rs. 10; *Dacca Univ. Studies* (twice p.a.), Rs. 7.

**UNIVERSITY PRESS.** In addn. to the ordinary printing work of the univ., the press undertakes, under the direction of the bulletin cttee., the publicn. of theses and other original work of the teaching staff and res. students, and of the univ. selections in Engl. & Bengali for inter. and degree courses. *Postal Address:* The Press Manager, Dacca Univ. Press, Ramna, Dacca.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed* : glass pot culture house for soil sci. ; med. centre ; extension of animal house for zool. lab. ; explosive room for biochem. ; conversion of verandah of library into reading room.

**RETIREMENTS.** K. Karmakar (chief accountant) ; Quorban Khan (press manager) ; S. N. Q. Zulfakar Ali (provost, Dacca Hall).

**RESIGNATIONS.** K. M. S. Aziz (bot.) ; Z. Rahim (chem.) ; A. S. Choudhury (comm.) ; S. K. Mukherjee (phys.) ; Mrs. Nadera Begum (Engl.) ; A. K. M. A. Islam (Bengali) ; B. K. Debnath (Bengali) ; S. M. Ali (econ.) ; M. Huq (econ.).

**DEATH.** A. Subhan (Arabic & Islamic studies).

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men	34,199	
Women	2,430	
Total	36,629	—

The figures above include students in constituent (2332) and affiliated (31,151) colls. as well as in the univ. proper (3146).

**Distribution by Faculties.** *Agric.*, 362 ; *arts*, 25,071 ; *educn.*, 303 ; *engin.*, 765 ; *law*, 1326 ; *med.*, 980 ; *sci.*, 7822. Total : 36,629.

*Included in the figures above are :—*

Intermediate students, 24,197.

Postgraduate students, 1072.

New admissions to the univ. proper, 1746.

Students from other countries, 27. (Country from which largest number came : Ceylon, 11).

**DEGREES AWARDED (1958-59).** BAg, 18 ; BSc (AH), 4 ; BA (pass), 975 ; BA (hons.), 201 ; MA, 291 ; BCom, 318 ; BCom (hons.), 26 ; MCom, 34 ; BSc (pass), 247 ; BSc (hons.), 48 ; MSc, 88 ; BEd (group A), 127 ; BEd (group B), 21 ; BEd (group C), 22 ; MA in educn., 7 ; MAg, 3 ; LLB, 77 ; MB BS, 153 ; MB BS (condensed), 23 ; BSc(Engin), 84. *Total number of first degrees awarded, 2074.*

**DIPLOMAS AWARDED (1958-59).** Lic. in vet. sci., 19 ; engin., 10 ; lic. in civil engin. (LCE), 82 ; phys. educn., 4.

**CERTIFICATES AWARDED (1958-59).** Day course in comm., 31 ; inter. arts, 1927 ; inter. sci., 946 ; inter. comm., 683 ; Islamic inter. studies, 9 ; military sci., 15.

# UNIVERSITY OF KARACHI\*

Founded 1950

Postal Address : Country Club Road, Karachi, West Pakistan

Telephone : 43434-5

CHANCELLOR—THE PRESIDENT OF THE REPUBLIC OF PAKISTAN (*ex officio*)

PRO-CHANCELLOR—THE MINISTER FOR EDUCATION IN THE CENTRAL GOVERNMENT (*ex officio*)

VICE-CHANCELLOR—B. A. HASHIMI, MA MEd Leeds, Hon. LL.D Alta.

HONORARY TREASURER—A. MUHAJIR, BA Madr.

REGISTRAR—I. R. KHAN, PhD Lond.

DEPUTY REGISTRAR—S. M. NAJMUDDIN, MA Patna

LIBRARIAN—.....

## UNIVERSITY TEACHING STAFF

### Arabic

Haq, M. M.  
Yusuf, S. M., PhD *Alig.*  
Arshad, H. S. R. A., MA *Delhi*

### Bengali

Syed, A. H. A. A., MA *Dacca*  
Khan, M. R., MA

### Botany

.....  
Hasnain, S. Z., MSc *Alig.*, PhD *Minn.* Reader.  
Naqvi, S. H. Z., MSc *Alld.*, PhD *Qu.* Lectr.  
Mohajir, A., PhD *Wis.* (on leave) Lectr.  
Ali, S. I., PhD Lectr.  
Nizamuddin, M., PhD Lectr.  
Ahmad, R., PhD Lectr.  
4 Demrs.

### Chemistry

Siddiqi, R. H., MSc PhD *Alig.*, DPhil *Oxon.*  
.....  
Haq, A. K. S., MSc *Dacca*, DIC, PhD *Lond.* Reader  
Ahmad, S., MSc *Alig.* (on leave) Lectr.  
Akhtar, S., MSc *Alig.* (on leave) Lectr.  
Ahmad, N., MSc *Panj.*, PhD *Manc.* Lectr.  
Salam, M. A., MSc *Agra* Lectr.  
4 Demrs.

**Commerce**, see also Inst. of Bus. and Pub.  
Admin., below

2 Lectrs.

### Economics

Prof. ....  
Fareed, Q. M., MA *Camb.* Reader  
Kadri, A. H., MA *Alig.* Lectr.  
Siddiqi, Q. H., MA LLB *Alig.* Lectr.  
Chowdhry, M. K., BSc *Lond.* Lectr.  
Rahman, M., MA *Patna* Lectr.

### English

Ashraf, S. A. N. A., MA *Camb.* Reader  
Husain, S. M., MA *Patna* (on leave) Lectr.  
Jamil, Mrs. Maya, MA *Luck.* Lectr.  
Kureshi, Mrs. Maki, MA *Smith*, BA Lectr.  
Nadera, Mrs., MA *Dacca* Temp. Lectr.  
Rahman, K., MA (on leave) Fellow

### Geography

Khan, I. R., PhD *Lond.* Prof.  
..... Reader  
Ahsan, S. Z., MSc *Alig.* Lectr.  
Siddiqi, S. I., MA PhD *Alig.* Lectr.  
Siddiqi, M. I., MA *Alig.*, DSc *Kiel* Lectr.  
4 Demrs.

### Geology

Bilgrami, S. A. Reader  
Khuda, M., MSc *Calc.*, PhD *Lond.* Temp. Reader  
Valiullah, M., MSc *Wis.* Lectr.  
3 Demrs.

### History

Prof. ....  
Islam. R., MA *Alig.*, PhD *Camb.* Reader  
Bashir, A., MA *Panj.*, PhD *Lond.* (on leave) Reader

Rahim, A., PhD *Lond.*, MA Actg. Reader  
 Siddiqi, M. H., MA *Alig.*, PhD *Manc.* Temp. Lectr.

### International Relations

Husain, M., PhD *Heidel.* Prof.  
 Chaudhri, M. A., MA *Oregon* (on leave) Lectr.  
 Kadeer, A. A., MA *Osm.*, PhD *Paris* Lectr.

### Islamic History

Siddiqui, A. H., LLB *Alig.*, PhD *Lond.* Reader  
 Saleem, M., MA LLB PhD *Alig.* Lectr.  
 Hashmi, Y. A., MA LLB *Alig.*, PhD Lectr.  
 Ansari, Z. I., MA *McG. & Karachi* Lectr.  
 1 Fellow

### Journalism

Sharif-Al-Mujahid, MA *Madr.* Lectr.  
 Husain, Miss N., MA *Calif.* Lectr.

### Mathematics

Kerawala, S. M., MA *Camb.*, DSc *Kiel* Prof.  
 Hanafi, A. R., MSc *Alig.* Reader  
 Zaidi, W. H., MSc *Alig.* Lectr.  
 Qureshi, M. A. R., MA *Edin. & Karachi* Lectr.  
 Temp. Lectr.

### Microbiology

Anwar, A. A., PhD *Mynn.*, MPH *Johns II.* Reader  
 Ali, M. V., MSc PhD *Sask.* Lectr.  
 Siddiqi, M. A., MSc Lectr.  
 3 Demrs.

### Persian

Sarwar, G., MA PhD *Alig.* Reader  
 Inam, M., MA *Patna* Lectr.  
 Khan, A. A., MA BT *Alig.* (on leave) Lectr.

### Philosophy

Ahmad, M. M., MA *Alig.*, PhD *Marburg* Prof.  
 ..... Reader  
 Ansari, T. H., MA *Alig.* Lectr.  
 Khan, A. R., MA *Alig.* Lectr.  
 Ali, M. I., MA *Bom.* Lectr.

### Physics

..... Prof.  
 Karim, S. M., MSc *Alig.*, PhD *Tor.* Reader  
 Tirmizi, S. M. A., MSc *Alig.*, DPhil *Oxon.* Reader  
 Khan, M. Aslam, DIC, PhD *Lond.* Lectr.  
 Hasan, S. B., MSc *Alig.* Lectr.  
 Hussain, S. A., MSc Lectr.  
 6 Demrs.

### Political Science

Ahmad, I., MA *Luck.* Reader  
 Kadri, W., MA *Alig.* Lectr.  
 Salahuddin, C. A., MA *Trav. & Col.* Lectr.  
 Husain, S. A., MA Lectr.

### Psychology

Aslam, Q. M., MA *Panj. & Camb.* (Moral Sci.) Prof.  
 Zuberi, H., MA *Alig.* (on leave) Lectr.  
 Rehmatullah, Mrs. S. Temp. Lectr.  
 1 Demr., 1 Fellow

### Urdu

Siddiqi, A. I., MA PhD *Alig.* Reader  
 Fatmi, S. Q., MA *Alig. & Patna* (on leave) Lectr.  
 Ali, M. H. S. S., MA *Mys.*, PhD *Luck.* Lectr.  
 Qayyum, A., MA *Luck.* Lectr.  
 Kashfi, A. K., MA Lectr.  
 1 Fellow

### Zoology

Qadri, M. A. H., DSc *Alig.*, PhD *Alig. & Camb.*, FPAS Prof.  
 Mohiuddin, A., MSc *Osm.*, PhD *Lond.* Reader  
 Tufail, M., MSc *Alig.* (on leave) Lectr.  
 Aziz, N., MSc Lectr.  
 Tirmizi, Mrs. S. M., DPhil *Oxon.* Lectr.  
 5 Demrs.

## INSTITUTE OF BUSINESS AND PUBLIC ADMINISTRATION

Breuninger, H. R., MBA *Texas* Actg. Chief Adviser  
 Hall, J. O., AB *Oklahoma* (Acctg.) Assoc. Chief Adviser  
 McLanson, G., MA *Boston Coll.* (In Service Trg.) Adviser  
 Henenmar, S. M., BA *N. Y.*, MA *Penn.* (Stats.) Adviser  
 Stevens, V. H., PhD *S. Calif.* (Pub. Admin. & Res.) Adviser  
 Morceland, G. B., AB *Pitt.*, MLS *Corn.* Library Adviser  
 Rucker, G. W., MA *Oklahoma* (Econ.) Adviser  
 Wood, R. H., PhD *Penn.* (Bus. Admin.) Adviser  
 Henningson, F. A., MA (Bus Admin) *Montana State Coll.* (Acctg.) Adviser  
 Mukhtar, I. A., MA *Alig. & Col.*, PhD Reader  
 Uzair, M., MA *Alld.* Reader  
 Khan, T. M., MA *Georgetown* (Stats.) Reader  
 Khan, M. A., MA *Agra, MBA Penn.* (Bus. Admin.) Reader  
 Iqbal, M., PhD *N. Carolina* Lectr.  
 Husain, M., MA (on leave) Lectr.  
 Zaheeruddin, MA LLB *Alig.* (on leave) Lectr.  
 Rahman, R., MA LLB *Nag.* (on leave) Lectr.  
 Syed, A. H., PhD *Penn.* (Pub. Admin.) Lectr.  
 Hasnat, A., MCom *Tor.* (on leave) (Acctg.) Lectr.  
 Chaudhry, F. M., MA *Penn.* (on leave) (Pub. Admin.) Lectr.  
 Qureshi, S. M. H., MA *Agra*, LLB *Luck.* (Pub. Admin.) Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Controller of Exams. : M. Rahim, MA. Asst. Registrar (Exams.) : A. A. Quraishy, BA *Alig.* Asst. Registrar (General) : S. A. Hameed, MA *Alig.* Asst. Registrar (Academic) : . . . . . Dep.

Librarian : A. Moid, MA DipLib *Panj.* Chief Accountant : M. B. Butt, MA *Panj.* Inspector of Colleges : . . . . .

## RECOGNIZED TEACHING COLLEGES

(All these colleges are in Karachi)

[IA, BA, etc., after the name of a coll. means that courses are provided there for Intermediate Arts, BA, etc.]

A.P.W.A. GIRLS' COLLEGE, Lalukhet. IA, ISc, BA. Principal—Mrs. Siddiqi. 16 other Teachers.

CENTRAL GOVT. COLLEGE FOR MEN, Nazimabad. IA, ISc, BA, BSc. Principal—A. Baten.

CENTRAL GOVT. COLLEGE FOR WOMEN, Frere Rd. IA, ISc, BA, BSc (pass). Principal—Mrs. Zinat R. Ahmad, MA *Luck.*, CertEd *Camb.* 51 other Teachers.

CENTRAL GOVT. TEACHERS' TRAINING COLLEGE, Nazimabad. BT, MFd. Principal—Q. H. K. Bakhtiari, DipEd *Lond.* & *Camb.*, MA. 12 other Teachers.

COLLEGE OF HOME ECONOMICS, near National Stadium. IA, BA (HomeEcon). Principal—Mrs. Sushila H. Lall, MA. 7 other Teachers.

D. J. SIND GOVT. SCIENCE COLLEGE. ISc, BSc (pass). Principal—L. A. D'Sousa, BA MSc. 38 other Teachers.

DOW MEDICAL COLLEGE, Hospital Rd. MB BS. Principal—M. A. Shah, MS *Panj.* 83 other Teachers.

ISLAMIA COLLEGE, Clayton Rd. IA, BA, ICom, BCom. Principal—G. M. Khan. 43 other Teachers.

JAMIA COLLEGE, Malir. IA, ISc, ICom, BA, BSc, BCom. Principal—S. M. Shafi, BSc *Lond.* 14 other Teachers.

JINNAH COLLEGE, Nazimabad. ISc, ICom, BCom. Principal—J. Ahmad Khan. 17 other Teachers.

NATIONAL COLLEGE. IA, ICom, BCom. Principal—H. Adil, MA. 16 other Teachers.

N.E.D. GOVT. ENGINEERING COLLEGE, Burns Rd. BE (civil, mech. and electr.), dipl. in engin. Principal—R. E. Mirza, BE (Civil) *Bom.*, MIE (India). 29 other Teachers.

OSMANIA COLLEGE, Nazimabad. IA, ICom, BCom. Principal—R. Ahmed Mufti, MA BT *Alig.*, MA (Ed) N.Y. 14 other Teachers.

ST. JOSEPH'S COLLEGE FOR WOMEN, Saddar. IA, ISc, BA (pass), BSc. Principal—Sister Mary Bernadette, BA DipEd *Lond.* 24 other Teachers.

ST. PATRICK'S COLLEGE, Saddar. IA, ICom, BA, BCom. Principal—Rev. Father S. Raymond, BA *Bom.*, LPh STL *Rome*, MA *Oxon.*, MFd *Wash.* 20 other Teachers.

SIND GOVT. COLLEGE OF COMMERCE AND ECONOMICS, Burns Rd. ICom, BCom. Principal—R. Rahman. 11 other Teachers.

SIND MUSLIM COLLEGE, Strachen Rd. IA, ISc, ICom, BA, BSc, BCom. Principal—S. A. Kohathi. 85 other Teachers.

SIND MUSLIM LAW COLLEGE, Strachen Rd. LLB. Principal—H. A. Rahman. 12 other Teachers.

SIR SYED GIRLS' COLLEGE, Nazimabad. IA, ISc, BA. Principal—Mrs. Umme S. Zaman, MA. 27 other Teachers.

SYED RAZA ALI COLLEGE, Britto Rd. IA, ISc, BA, BCom. Principal—S. R. K. Rizvi, MA LT 40 other Teachers.

URDU COLLEGE, Princess St. IA, ISc, ICom, BA, BSc, BCom, MA, LLB. (Urdu is the medium of instruction.) Principal—Col. Ataur Rahim. 55 other Teachers.

## GENERAL INFORMATION

The Univ. of Karachi Act was passed by the central legislature in 1950, but the univ. did not come into existence till June 1951. It is an affiliating, examining and teaching univ., and its territorial jurisdiction covers the entire area of the federal capital. Postgrad. teaching and res. directly under the control of the univ. have been started in several depts. (see above).

UNIVERSITY PRECINCT. The new campus (foundation stone laid in 1957 by the president

of Pakistan) is on the Country Club Rd., and consists of 1279 acres allotted by the govt. of Pakistan. The univ. has now moved to this new campus; among the bldgs. already completed there are those for the admin. block, fac. of arts, phys. & chem. depts. as well as temp. blocks for other sci. depts. It is proposed to complete the construction programme in 3 phases, each of 7 yrs.' duration.

FACULTIES AND DEANS. Arts, . . . . .; sci., Dr. |

M. A. H. Qadri (zool.). The posts of dean of the fac. of *comm.*, of *educn.*, of *engin. & technol.*, of *Islamic learning*, of *law*, and of *med.* are vacant.

LIBRARY. 80,000 vols. Also 20 deptl. libraries to provide facilities for postgrad. study and res.

TEACHING HOSPITALS. Civil H., Karachi, and Jinnah Central H., Karachi.

The INSTITUTE OF PUBLIC AND BUSINESS ADMINISTRATION was establd. in 1955 in co-operation with the Univ. of Pennsylvania under the inter-college exchange project. It is financed by the govts. of Pakistan and the U.S.A. The inst. offers postgrad. courses leading to the degrees of master of pub. admin. (MPA) and master of bus. admin. (MBA), each 2 yrs. The in-service programme of the inst. is designed to meet the needs of persons who are employed and cannot study full-time. Students must have passed inter. arts, ISc or JCom to be admitted to this course. The inst. has also launched a programme of res. and devel. to provide management services for governmental and business orgns., to conduct and co-ordinate res. projects, and to assemble and publish suitable material.

BUREAU OF (URDU) COMPOSITION, COMPILATION AND TRANSLATION. The purpose of the bureau is: (1) to standardize, compile and publish Urdu technical terms in all branches of learning, espec. sci.; (2) to produce and translate text-books in Urdu; and (3) to translate higher Urdu lit. into Engl. and other western langs. Dir. (with status of prof.): Major Aftal Hassan.

ADMISSION. Min. qualif. for entrance to the univ. other than professional courses is a pass at high sch. or such other exams. held under the

auspices of a univ. or public bd. as are recog. by the univ.

FIRST DEGREES. 2 yrs.—BCom, BHEc, LLB; 3 yrs. (post-inter.)—BA pass & hon., BSc pass & hon.; 3½ yrs.—BE; 5 yrs.—MB BS.

HIGHER DEGREES. 1 yr. after bachelor's degree—BT; 2 yrs. after bachelor's degree—MA, MSc, MCom, MBA, MPA; 2 yrs. after master's degree—PhD.

DIPLOMAS. 1 yr.—journalism, library sci.

CERTIFICATES. 9 mos.—French, German, Spanish.

FEES. Univ. exams., from Rs. 30 to Rs. 100; tuition, Rs. 12 to Rs. 20 p.m. (for 10 months p.a.).

ACADEMIC YEAR. 2 terms: Aug. 15–Dec. 20; Jan. 11–May 14.

MEDIUM OF INSTRUCTION. English in all subjects at all exams. Urdu in arts up to MA, in sci. up to inter. and in comm. up to BCom.

RECREATION. The univ. sports bd. organizes the activities of the univ. in this field. Inter-collegiate sports are arranged for hockey, cricket, badminton, football, volley-ball, tennis, table tennis, swimming and athletics.

PUBLICATIONS. Annual *Courses of Study* for all exams.; *Annual Report*; *Karachi Univ. Magazine* (annual); *Karachi Univ. Students' Union Magazine* (annual); univ. sci. teachers, in collaboration with other scientists of Pakistan, publish *The Scientist* (bi-annual); the dept. of econ. and comm. publishes the *Federal Economic Review* (quarterly); the dept. of Bengali publishes the *Bengali Literary Review* (bi-annual).

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959–60

	Full-Time	Part-Time
Men . . .	892	142
Women . . .	293	112
Total . . .	1185	254

DEGREES AWARDED (1958–59). BA (pass), 461; BA (hons.), 16; BHEc, 29; MA, 196; BSc (pass), 283; BSc (hons.), 16; MSc, 14; BCom,

309; MCom, 2; BT, 135; LLB, 248; MBA, 74; MPA, 9; MB BS, 127; BE (civil) and BE (mech. & electr.), 140; PhD (arts), 1.

DIPLOMAS AWARDED (1958–59). Journalism, 5; library sci., 11; *engin.*: civil, 58; mech. & electr., 12.

CERTIFICATES AWARDED (1958–59). German lang., 2; Spanish lang., 2; French lang., 6; Bengali, 1.



# UNIVERSITY OF THE PANJAB\*

## LAHORE

Founded 1882

*Postal Address* : Lahore, West Pakistan  
*Cables and Telegrams* : University, Lahore  
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 Noor-ul-Hasan, HA Maulvi (U)  
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 Ashraf, M., MSc Lectr. (U)

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 Tanweer, A. K., MSc(Tech) Lectr. (U)  
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 Qureshi, A. H., MSc(Eng) *Lond.* Lectr. (EngC)  
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Lectr. (EngC)  
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### French, see Mod. Langs.

### Geography

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 Sr. Lectr. (U)  
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 Sr. Adviser, Unesco Mission, Hd. of  
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Aziz, A., MB BS DPH PhD *Lond.*

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### Spanish, see Mod. Langs.

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LAHORE, *Oriental College* (tel. : 2573). PhD, MA, courses in Arabic, Persian and Urdu. Principal—S. M. Abdullah, MA MOL DLitt. ARABIC—S. M. Abdullah, MA MOI DLitt, Hd. of Dept. ; Noor-ul-Hassan, HA, Maulvi ; A. S. Sarim, HPHA Fazil *Al Azhar*, Additional Maulvi. PERSIAN—M. Baqir, PhD *Lond.*, MA, Prof. & Hd. of Dept. ; V. H. Abedi, MA *Delhi* (Spoken Iranian), Reader ; A. S. Ahsan, MA LLB *Alig.*, G. J. Kakhudum, MA MOL BT HA HP, Lectrs. URDU—S. M. Abdullah, MA MOL DLitt, Prof. & Hd. of Dept. ; E. Brelvi, MA PhD *Luck.*, Sr. Lectr. ; V. Azim, MA *Alld.*, Lectr. *Inter-collegiate Staff*—A. Qayyum, MA (Govt. Coll.), G. M. Asar, MA (Govt. Coll.), M. B. Badakhshani, MA (Govt. Coll.), W. Qureshi, MA PhD (Islamia Coll.), I. Siddiqui, MA (Islamia Coll.), M. Sadiq, MA PhD (Dyal Singh Coll.), S. Zia ul Haq, MA PhD (Govt. Coll.), M. D. Ghaznavi, MA (Islamia Coll.).

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LAHORE, \**Central Training College* (tel. : 3691). BEd. Principal—Namdar Khan, BA *Lond.*, MA. Other staff, 22.

LAHORE, *College of Home and Social Sciences* (tel. : 7122). BSc(HomeEc). Principal—Mrs. Mumtaz Bashir, MA. Other staff, 31.

LAHORE, \**de Montmorency College of Dentistry* (Govt.) (tel. : 4695). BDS, MDS. Principal—H. R. Shah, BA, FDSRCSed. Other staff, 8.

LAHORE, \**Fatimah Jinnah Medical College for Women* (tel. : 3767). MB BS. Principal—Shujaat Ali, PhD *Durh.*, MD. Other staff, 49.

LAHORE, \**Govt. College of Animal Husbandry* (tel. : 3414). BScAnimalHusb. Principal—W. M. Khan, BSc. Other staff, 31.

LAHORE, \**Govt. College of Engineering & Technology* (tel. : 4473). BScEngg (civil, mech., electr., mining and chem. engin.). Principal—S. M. Alam, BA *Osm.*, BSc *Manc.*, MICE. Other staff, 48.

LAHORE, \**Islamia College for Women* (tel. : 3574). BEd. Principal—Mrs. Azra I. Rehman-khan, MA *Sind*, PhD *Clark*. Other staff, 38.

LAHORE, \**King Edward Medical College* (tel. : 64101). MSc (in *physiol.*), MB BS, MD, MS, BPharm, DLO, TDD, DMRE, DO. Administrator—Lt.-Col. R. Ahmad Khan. Other staff, 52.

LAHORE, \**Lady MacLagan Training College for Women* (tel. : 4447). BEd. Principal—Mrs. S. A. Malik, MA BT *Alig.*, DipEd *Lond.* Other staff, 12.

LYALLPUR, *Punjab Agricultural College* (tel. : 2247). BScAgri ; agric., bot., chem., zool. and entomol. for MSc and PhD in agric. Principal—A. Sattar, DIC, DSc PhD. Other staff, 23.

MULTAN, \**Nishtar Medical College* (tel. : 2770). MB BS. Principal—M. H. Toosy, PhD *Wash.*, MB BS. Other staff, 42.

RAWALPINDI, *Pakistan Army Medical College* (tel. : 847). TDD, DMRE, DPH. Commandant—Brigadier G. Ahmad, MB BS *Bom.*, MRCP. Other staff, 28.

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- BAHAWALPUR, *Sadiq Egerton College* (tel. : 379). MA, BA, BSc. Principal—G. Muhammad Shah, MA. Other staff, 34.
- CAMPBELLPUR, *Govt. College*. BA, BSc. Principal—Ashfaq Ali Khan, MA. Other staff, 21.
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- GUJRANWALA, *Islamia College* (tel. : 2286). BA. Principal—M. A. Husain, BA *Alld.*, MA. Other staff, 26.
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- LYALLPUR, *Islamia College* (tel. : 2498). BA. Principal—H. Khan, MA. Other staff, 40.
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- MULTAN, *Islamia College* (tel. : 2560). BA. Principal—C. A. Ghafur, MA. Other staff, 9.
- MUZAFFARGARH, *Govt. College*. BA, BSc. Principal—M. N. Bukhsh, MA. Other staff, 13.
- QUETTA, *Govt. College* (tel. : 2530). BA. Principal—S. M. Anwar, MA. Other staff, 39.
- RABHWA, *Talim-ul-Islam College* (tel. : 65). MA, MSc, BA (hons.). Principal—M. N. Ahmad, MA *Oxon.* Other staff, 22.
- RAWALPINDI, *Gordon College* (tel. : 3014). MA, BA, BSc. Principal—M. A. Q. Dasquawai, MA N.Y., DD. Other staff, 48.
- RAWALPINDI, *Govt. College* (tel. : 2612). BA, BSc. Principal—G. Ahmad, MSc. Other staff, 35.
- RAWALPINDI, *Govt. College for Women* (tel. : 2722). BA. Principal—Mrs. Kaniz Siddiqi, MA DT *Luck.*, MA PhD *Chic.* Other staff, 24.
- SARGODHA, *de Montmorency College* (tel. : 2116). BA, BSc. Principal—Nasir ud Din Qureshi, MA. Other staff, 39.
- SHEIKHUPURA, *Govt. College*. BA, BSc. Principal—Sardar Muhammad, MSc PhD. Other staff, 12.
- SIALKOT, *Govt. College for Women* (tel. : 31). BA. Principal—Miss A. Munimuddin, MA *Delhi.* Other staff, 16.
- SIALKOT, *Jinnah Islamia College* (tel. : 144). BA. Principal—M. K. Naeem, MSc *Alig.* Other staff, 17.
- SIALKOT, *Murray College* (tel. : 69). MA, BA. Principal—R. C. Thomas, MSc *Alld.* Other staff, 37.

## GENERAL INFORMATION

Establd. in 1882, the univ. is the oldest in Pakistan and was the fourth to be establd. in the Indo-Pakistan sub-continent. Until 1919 the univ. confined its activities mainly to exams., the control of affiliated instns. and the provision of instructn. in its oriental and law colls. It has, since 1919, undertaken the maintenance of univ. teaching depts. for postgrad. instructn. and res. and co-ordination of advanced teaching. Besides the univ. profs., readers and lectrs., sr. teachers of the local colls. are associated with univ. teaching. The univ. also maintains colls. of comm., law and oriental studies, and holds classes in stats., journalism, Turkish, German, French, Russian and Spanish.

By the Panjab Univ. Act of 1954 the matric., inter., Pakistani and oriental langs. exams. were transferred from the univ. to the bd. of secondary educn., Lahore.

CONSTITUTION. Up to 1959, a cttee. apptd. by the chancellor exercised the powers and performed the duties of the various univ. authorities provided for under the Panjab University Act of 1954. Elections to the senate, the supreme body of the univ. which will superintend the univ.'s affairs and property, have now taken place, and the senate and 2 other bodies, the syndicate and academic council, have begun to function.

INCOME (1959-60). Total, Rs. 4,449,147 (govt. grants, 53.9 per cent.; fees and other sources, 46.1 per cent.).

FACULTIES AND DEANS. *Agric. & animal husb.*, Dr. Khan A. Rahman; *comm.*, Prof. M. Hassan; *educn.*, Dr. Jehangir Khan; *engin. & technol.*, S. Mahmood Alam; *European langs.*, Rt. Rev. L. H. Woolmer; *humanities & soc. scis.*, Prof. Kazi S. Ahmad; *Islamic studies & compar. religion*, Justice M. Sharif; *law*, Justice S. A. Rahman; *med.*, Dr. Col. E. Bakhsh; *military studies*, ....; *nat. scis. & maths.*, Dr. Niaz Ahmad; *oriental learning*, Dr. M. Shafi.

UNIVERSITY PRECINCT. The univ. is located in a congested area in the city and it has been decided to move to a new site outside Lahore. As a result of the efforts of the chancellor and the continued co-operation of the govt. of W. Pakistan and the central govt., it has been possible to acquire about 2300 acres of land at the new site. A master plan has been prepared for the new univ. campus. As a first phase, the univ. plans to implement a 4-yr. constructn. programme (ending May 1963) which will cost not less than 20 million rupees. The work of constructn. has begun. The project (dir. : Lt.-Col. Shahbaz Khan, MA) will reflect the most progressive trends in higher educn. and in its archit. blend the latest scientific building techniques with Pakistan's centuries-old traditions.

LIBRARY. Univ. library, 166,369 vols. plus 17,644 MSS. in Persian, Arabic and Sansk.; 437 periodicals. In addn., each teaching dept. has its own library.

MUSEUMS AND LABORATORIES. The univ. maintains well-equipped instns. of chem. and chem. technol., as well as the Kayshap Res. Inst. in bot. and phys. There are bot. and zool. labs. also in Govt. Coll., which the univ. shares. The depts. of bot. and zool. have museums.

TEACHING HOSPITALS. The following hosps. are recog. for providing facilities for undergrad. and postgrad. teaching in the fac. of med. Lahore: Mayo H., Lady Willingdon H., Sir Ganga Ram H. Multan: Nishtar Med. H.

ADMISSION. Students must have passed the inter. exam. of the bd. of secondary educn., Lahore, or equivalent exam. The univ. *Calendar*, vol. II, lists the exams. of other univs., etc., recog. as equivalent to the corresp. exams. of the univ. Exams. of other approved univs. are recog. by the syndicate and academic council. After passing the inter. exam. students join one of the colls. affiliated to the univ. in the various facs. Grads. are admitted by colls. for the master's degree, but postgrad. teaching is mainly on a co-operative basis for colls. in Lahore and is conducted under the auspices of the univ.

FIRST DEGREES. 2 yrs. from inter.—BA, BA (hons.), BSc, BSc (hons.), LL.B, BOL; 3 yrs.—BSc (hons. sch.), BCom, BScEngg, BPharm; 4 yrs.—BScAgri, BSc(HomeEc), BDS; 5 yrs.—BScAnimalHusb, MB BS.

BA (hons.), BSc (hons.) may be taken in Arabic, astron., econ., Engl., geog., geol., hist., Islamiyyat, maths., Persian, philos., pol. sci., psychol., Sanskrit, stats., Urdu. Candidates are required to offer, in addn. to the ordinary 2-yr. degree course, 3 papers of a higher standard in their chosen subject.

The BSc (hons. sch.) differs from the BSc (hons.) degree. The former is a 3-yr. course, candidates being required to qualify in an Engl. prelim. exam. (in 1st yr.), in a number of subsid. subjs. (in 2nd yr.), and in the hons. sch. exam. (at end of 3rd yr.). There are hons. schs. in bot., chem. technol., zool. BSc (hons. sch.) grads. may proceed to MSc (hons. sch.) after a 1-yr. course.

HIGHER DEGREES. 1 yr.—BED, MSc (hons. sch.), MCom, MEd, MOL; 2 yrs.—MA, MSc, MScAgri, MScAnimalHusb, MScTech, MDS, MCom, LLM; 3 yrs.—MD, MS, LLD, PhD; 6 yrs.—DLitt, DSc, DOL. Postgrad. teaching is provided in Arabic, astron., bot., chem., chem. technol., econ., fine arts, geog., geol., hist., Islamic studies, journalism, maths., Persian, pharm., phys., physiol., pol. sci., psychol., sociol., soc. work, stats., Urdu, zool.

HONORARY DEGREES. DOL, DLitt, DSc, LLD, MD.

DIPLOMAS. *Post-matric.*: 9 mos.—French, German, Russian, Spanish, Turkish; 3 yrs.—comm. *Postgrad.*: 3 mos.—DMRE pt. I; 6

mos.—DMRE pt. II ; 9 mos.—TDD pt. I ; 15 mos.—TDD pt. II ; 1 yr.—internat. affairs, library sci., stats., DPH pt. I, DLO pt. I, DLO pt. II, DOMS pt. II ; 6 mos.—DPH pt. II, after a registrable qualif. in med., surg. and midwifery, DOMS pt. I.

**CERTIFICATES.** *Post-matric.* : 1 yr.—French, German, Russian, Spanish, Turkish, comm. *Postgrad.* : 1 yr.—stats.

**RESEARCH.** Res. work is carried on in the Oriental Coll. and in some of the univ. teaching depts. Some univ. depts. also undertake res. on particular subjs. at the request of certain depts. of the govt. To undertake res. into the soc. and econ. conditions of the people, particularly of the rural community, a socio-econ. res. project has been formed ; a number of reports have already been circulated for official use and it is intended to publish the final report shortly.

The Asia Foundation have agreed to co-operate in arrangements for publishing the res. works completed in the univ. depts.

**ALLIANCE.** There is an inter.-coll. exchange programme between the Univ. of the Panjab and its affiliated colls. and the State Coll. of Washington, U.S.A. The exchange is over a broad range of subjs., incl. agric., bus. admin. & comm., educn., engin., home econ., sociol., soc. work. U.S. specialists in these fields work in univ. teaching depts. and in affiliated colls. The programme also provides for the supply of equipment and books to participating instns.

**STUDY LEAVE.** Study leave on three-quarters' salary (or Rs. 300 p.m., whichever is the greater) may be granted after 3 yrs.' permanent service to members of the teaching or admin. staff who wish to pursue their studies outside Pakistan. Leave is granted for a period not exceeding 3 yrs. in all during the officer's service and not for more than 2 yrs. at one time.

**FEES.** Univ. tuition fees. BA—Rs. 48 p.a. BSc hons. sch.—bot., chem. tech., phys., zool. : 1st yr., Rs. 72, 2nd yr., Rs. 96, 3rd & 4th yrs., Rs. 180 p.a. (chem. tech., 4th yr., Rs. 240). BSc—astron., stats. : 3rd & 4th yrs., Rs. 36 p.a. ; bot., zool. : 3rd & 4th yrs., Rs. 48 p.a. ; geol. : 1st & 2nd yrs., Rs. 48 p.a., 3rd & 4th yrs., Rs. 96 p.a. BPharm—Rs. 96 p.a. MA, MSc—Rs. 60 p.a. for 2 yrs., except bot., phys., zool. (Rs. 180 p.a.), chem. tech., fine art, geol. (Rs. 240 p.a.).

Dipls.—fine arts, internat. affairs, journalism, Rs. 180 ; stats., Rs. 120 ; French, German, Rs. 63. Certs.—French, German, Turkish, Rs. 45.

**ACADEMIC YEAR.** 3 terms : Sept. 12–Dec. 22 ; Jan. 2–April 1 ; April 13–June 17.

**LANGUAGE OF INSTRUCTION.** English is the medium of exam. in all subjs. except classical langs. (where the medium is the cognate Pakistani lang. or Engl. or the classical lang. itself, at the option of the candidate), Pakistan langs. (the lang. concerned), and Islamiyyat (Urdu, except for foreigners, candidates from E. Pakistan and students from schs. of European type joining any of the affiliated colls., who may use Engl.).

The UNIVERSITY FOREIGN INFORMATION BUREAU advises and helps students who go abroad for advanced studies. Sec., Prof. Kazi S. Ahmad, MA I.L.B. *Alig.*, PhD *Lond.*

**RESIDENCE.** Undergrads. in Lahore colls., unless living with their guardians, are ordinarily required to reside in coll. hostels or in hostels recog. by the univ. The univ. has started a hostel for women postgrad. students.

**STUDENTS' UNION.** Provides a modern cafeteria for use of students and staff and facilities for discussion of student and internatnl. affairs.

**GRANTS TO COLLEGES.** Grants are given by the univ. to Mofussil colls. for prosecution of res., and to colls. affiliated to MA standard for library books required by MA students.

**EXTENSION LECTURES.** Extension lectures by eminent scholars are arranged by the univ. at Lahore and Mofussil colls.

**PUBLICATIONS.** *Calendar* (2 vols.), Rs. 15 (annual) ; *Annual Report* ; *Gazette*, Rs. 4 (monthly) ; *Exam Syllabuses*, As. 6 and As. 12, catalogues of Sanskrit, Persian, Urdu and Arabic MSS. in the univ. library, various prices ; *Lahore, Past and Present*, by Dr. M. Baqir (1952), Rs. 15 ; *A History of the Panjab Univ.*, by J. F. Bruce (1933), o.p., but a few copies available from univ. The univ. has also published text-books and critical edns. of a number of oriental texts.

**UNIVERSITY BOOKSHOP.** The univ. has a sales dept. which sells the univ. publications.

**UNIVERSITY PRESS** (tel. : 66689). The univ. has its own press, which does all the printing work (incl. text-books) of the univ.

## THE YEAR 1959

**RETIREMENTS.** Nil.

**RESIGNATIONS.** Dr. K. M. Salim (bot.) ; Dr. Moin ud Din (stats.) ; Asghar Ali (stats.) ; Maulana Mirak Shah (oriental coll.) ; A. Rashid Jilani (chem. technol.).

**HONORARY DECREES.** LLD—Field-Marshal Mohammad Ayub Khan, pres. of Pakistan. DSc—H.E. Dr. M. Eghbal, prime minister of Iran ; H.E. Dr. A. F. Motamed, chancellor, Univ. of Teheran.

Statistics

STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	13,824	5753
Women . . .	2,849	391
Total . . .	16,673	6144

Distribution by Faculties. *Agric. & animal*  
*housb.*, 1193 ; *comm.*, 413 ; *educn.*, 519 ; *engin. &*  
*technol.*, 371 ; *humanities & soc. scis.*, *langs.*,  
*maths. & nat. scis.*, *military studies*, 17,090 ; *law*,  
1321 ; *med.*, 1910. Total : 22,817.

*Included in the figures above are :—*

Intermediate students, nil.  
Postgraduate students, 2853.  
New admissions, 1817.

Students from other countries, 68. (Country  
from which largest number came : E. Africa, 11).

DEGREES AWARDED (1958-59). BA, 2273 ;  
BCom, 44 ; BDS, 10 ; BEd, 388 ; BPharm, 6 ;  
BSc, 483 ; BScAgr, 95 ; BSc(AnimalHusb), 50 ;  
BScEngg, 78 ; BSc(HomeEc), 28 ; LLB, 161 ;  
MA, 527 ; MB BS, 119 ; MCom, 28 ; MOL,  
16 ; MS, 1 ; MSc, 103 ; MScAgr, 36 ; MSc  
(hons. sch.) & MSc (chem. technol.), 48 ; PhD, 2.

DIPLOMAS AWARDED (1958-59). French, 7 ;  
German, 2 ; internat. affairs, 2 ; journalism, 15 ;  
pub. health I, 7 ; pub. health II, 12 ; Spanish, 1 ;  
stats., 7 ; Turkish, 2.

CERTIFICATES AWARDED (1958-59). French,  
19 ; German, 10 ; library scis., 12 ; Spanish, 7 ;  
Turkish, 4.



# UNIVERSITY OF PESHAWAR\*

Established 1950

*Postal Address* : Peshawar, West Pakistan  
*Cables and Telegrams* : University, Peshawar  
*Telephone (Registrar)* : Peshawar 5301

CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN (*ex officio*)

VICE-CHANCELLOR—Col. M. K. AFRIDI, CBE, MD

REGISTRAR—A. HASHIM KHAN, MA *Panj.* & *Lond.*

## TEACHING STAFF

[† = Part-Time]

### Arabic

Ahmad, C. S., MA *Panj.*, Dipl in French  
 Dipl in German Sr. Lectr.  
 Ashraf, M., MA Jr. Lectr.  
 Khan, M. W. Jr. Lectr.

### Botany

Qazilbash, N. A., DSc *Panj.* Prof., Hd. of Dept.  
 Kaul, K. M. S., MSc *Panj.*, PhD Sr. Lectr.  
 Din, Hassan, MSc *Luck.* Sr. Lectr.  
 Faridi, M. A. F., MSc *Alig.* & *Panj.*  
 (on leave) Sr. Lectr.  
 Ul-Haq, S., MSc *Panj.* Jr. Lectr.  
 Ahmad, N., MSc *Panj.* Jr. Lectr.  
 Baig, A. R., MSc Jr. Lectr.  
 Ahmad, B., MSc *Panj.* Jr. Lectr.  
 Habib, J., MSc *Alig.* Demr.  
 Yusaf, M. M., BSc *Panj.* Demr.

### Chemistry

Siddiqi, M. S. H., MSc PhD *Chic.*  
 Prof., Hd. of Dept.  
 Ali, M., MSc *Alig.*, DPhil *Oxon.* Reader  
 Kazmi, H. A., MSc *Panj.*, BA *Camb.*  
 (on leave) Sr. Lectr.  
 Nowshervi, A. R., MSc *Panj.* & *Syd.* Sr. Lectr.  
 Abidi, S. M. F., MSc *Panj.* (on leave) Jr. Lectr.  
 Din, M. Z., MSc (on leave) Jr. Lectr.  
 Akhtar, M. A., MSc Jr. Lectr.  
 Gul, S., MSc Jr. Lectr.  
 Khan, Z. M., MSc Jr. Lectr.  
 Zeb, J., MSc *Panj.* Jr. Lectr.  
 Ghani, S., MSc *Panj.* Demr.

### Economics

Beringer, C., PhD MA *Mich.* Prof.  
 Matin, A., PhD *Bonn*, MA Reader  
 Bokhari, N. A., MA *Panj.* Sr. Lectr.  
 Qureshi, K. R., MSc *Lond.* Sr. Lectr.  
 Jamil, A., MA Jr. Lectr.

Akram, M., MA Jr. Lectr.  
 Bahadur, I., MA Jr. Lectr.  
 Khan, B. M. A., LLB Jr. Lectr.

### English

Ali Khan, M., MA *Alig.* & *Camb.*, PhD *Lond.*  
 Prof., Hd. of Dept.  
 Close, H. M., MA DipEd *Camb.* Reader  
 Harbottle, M. S., MA *Camb.* Reader  
 Bashiruddin, MA *Panj.* Sr. Lectr.  
 Kamal, D., BA *Camb.* Sr. Lectr.  
 Khilji, J., MA BT *Panj.* Sr. Lectr.  
 Malik, R. S., MA *Panj.* (on leave) Sr. Lectr.  
 Sarwar, C. M., MA *Panj.* Sr. Lectr.  
 Safdar, Yasmin, BA *Camb.* Sr. Lectr.  
 Osmani, M. A. H., MA *Agra* Jr. Lectr.  
 Siddiqi, S., MA *Osm.* Jr. Lectr.  
 Samad, A. M. A., MA *Nag.* Jr. Lectr.  
 Shah, S. A., MA Jr. Lectr.  
 Shamsi, M. A., MA LLB *Alig.* Jr. Lectr.  
 Ul-Ibrar, S., MA Jr. Lectr.  
 Muhsin, I. M., MA Jr. Lectr.

### French

de Grunne, Françoise Sr. Lectr

### Geography

Durrani, M. A., MA *Alig.* & *Lond.*  
 Prof., Hd. of Dept.  
 Din, Hamid, MSc *Alig.* (on leave) Sr. Lectr.  
 Zubair, S. M., MA BT *Panj.*  
 (on leave) Jr. Lectr.  
 Ahmad, S. D., MSc *Dacca* Jr. Lectr.  
 Malik, A. H., MSc *Panj.* Jr. Lectr.

### Geology

Khan, M. A., MSc *Karachi* Jr. Lectr.

### German

Adil Khan, Mrs. K.

**History and Political Science**

Khan, M., MA PhD *Durh.* Reader, Hd. of Dept.  
 Sahni, Mrs. A., MA LLB *Alig.*, PhD *Lond.*

Khan, H., MA <i>Panj.</i> , BA <i>Lond.</i>	Sr. Lectr.
Haq, M., MA LLB <i>Alig.</i>	Sr. Lectr.
Anwar, M., MA <i>Panj.</i>	Jr. Lectr.
Ullah, I., MA <i>Panj.</i>	Jr. Lectr.
Khan, A. S., MA	Jr. Lectr.
Durrani, F. A., MA	(on leave) Jr. Lectr.
Arbab, F. M. K., MA	Jr. Lectr.

**Home Economics**

Rizvi, Mrs. H. A., MA *Osm.*  
 Sr. Lectr., Hd. of Dept.  
 Ansari, Mrs. N. L. Sr. Lectr.  
 Ahmad, Habiba, BS *Colorado Agric.* Jr. Lectr.  
 Akhtar, Miss S., MA Jr. Lectr.  
 Habib, N., MSc Jr. Lectr.  
 Eskar, Mrs. W., BA (on leave) Demr.  
 Sultana, F., BSc Demr.  
 Akhtar, S., BSc Demr.  
 Rizwana, K., MA *Karachi* †Lectr.  
 Hussain, Rosy, MA †Lectr.

**Islamiyyat**

Nadvi, Q. N. H., Alshahadatul Alia Nad-  
 watul-Ulema *Luck.*, Al Alimiat *Al*  
*Azhar* Reader, Hd. of Dept.  
 Quddus, H. M. A., HA IUU HP *Panj.*  
 Rahman, Q. M., MA Jr. Lectr.  
 Shakoor, A. Jr. Lectr.  
 Rahman, F. Jr. Lectr.

**Mathematics**

Mian, A. M., BSc PhD *Lond.*  
 Prof., Hd. of Dept.  
 Ziauddin, MA *Panj.* Reader  
 Qureshi, A. H., MA LLB *Alig.* Sr. Lectr.  
 Nazu Khan, M., MA *Panj.* Sr. Lectr.  
 Hayat, C. M., MA *Panj.* Sr. Lectr.  
 Yusuf, M., MA *Panj.*, BA *Camb.*  
 (on leave) Sr. Lectr.  
 Baloch, A. H., MA *Panj.* Jr. Lectr.  
 Iftikharuddin, MSc Jr. Lectr.

**Persian**

Qadir, M. A., MA LLB BT *Alig.*  
 Reader, Hd. of Dept.  
 Naqvi, S. G. A. S., MA BT *Panj.*, LLB  
 (on leave) Sr. Lectr.  
 Birlas, M. N. H., MA BT MOL *Panj.*,  
 PhD *Teheran* Sr. Lectr.  
 Mufti, M. H., MA *Agra* Sr. Lectr.  
 Hussain, I., MA *Alig.* Jr. Lectr.  
 Yasmin, Rahmat, MA Jr. Lectr.

**Philosophy**

Qayum, A., BT MA *Panj.* Jr. Lectr.

**Physics**

Mian, A. M., BSc PhD *Lond.*  
 Prof., Hd. of Dept.  
 Jan Khan, M., BA *Oxon.*, MSc *Panj.* Reader  
 Khattak, M. A., BSc *Manc.* Sr. Lectr.  
 Siddiqi, T. A., BSc *Camb.* Sr. Lectr.  
 Majid, A., MSc *Panj.* Jr. Lectr.  
 Rana, A. R., MSc *Alig.* (on leave) Jr. Lectr.  
 Naqvi, S. J. H., MSc *Luck.* Jr. Lectr.  
 Akhtar, S., BA MSc Jr. Lectr.  
 Ahsan, M., MSc (on leave) Jr. Lectr.  
 Mohammad, F., MSc *Panj.* Jr. Lectr.  
 Khan, M. A., MSc Jr. Lectr.  
 Hussain, N., BSc Demr.  
 Shah, M., MSc Demr.  
 Baqi, F., MSc Demr.  
 Khan, R., BSc Demr.

**Political Science**, see Hist. and Pol. Sci.**Urdu**

Qadir, Maulana A., MA LLB BT *Alig.*  
 Reader, Hd. of Dept.  
 Faruqi, M. T., MA Dabir-i-Kamil *Luck.*,  
 Maulvi Alim *Panj.*, Fazil Kamil *Alld.*  
 Altaf, S. M. A., MA *Panj.* Sr. Lectr.  
 Azhar, A. H., MA BT Sr. Lectr.  
 Jaffery, S. M., MA Jr. Lectr.

**Zoology**

Ahmad, M., MSc *Panj.* (on leave) Sr. Lectr.  
 Ahmad, A., MSc *Panj.* Sr. Lectr.  
 Khan, M. A., MSc *Panj.* Jr. Lectr.  
 Shahwali, BSc Demr.

**PUSHTO ACADEMY**

Qadir, Maulana A., MA LLB BT *Alig.* Dir.  
 Haq, S. A. Asst. Res. Officer  
 Tahir, M. N., MA Asst. Res. Officer  
 Niaz, J. Z., MA *Panj.*, HP (Pushto) Sr. Lectr.  
 3 Publication & Production Officers, 3 Asst.  
 Lexicographers, 1 Translator.

**ISLAMIA COLLEGIATE SCHOOL**

Shah, S. S. H., BA BT *Panj.* Principa

**JUNIOR MODEL SCHOOL**

Almas, Mrs. Iffat, BA BT *Panj.*,  
 MEd *Beirut* Headmistress  
 Begum, Miss Razia, BA BT Asst. Mistress  
 Ahmad, Miss Naima, BA BT Asst. Mistress  
 Qadri, Miss Sughra, BA Asst. Mistress  
 Beatrice, Miss, BA Asst. Mistress  
 Khattak, Miss Iqbal, MA Asst. Mistress

## ADMINISTRATIVE AND OTHER STAFF

Controller of Exams.: A. Hassan, MA. Dep. Registrar: N. D. Ahmad, BA *Panj.*, MA LLB *Alig.* Admin. Officer: F. U. Khan, BA LLB *Alig.* Controller of Accounts: M. S. Burq. Asst. Registrar, Exams.: Inayatullah Khan, BA *Panj.* Librarian: Maulana A. S. Qasimi,

MS(LibSc) *Western Reserve*, MA. Personal Asst. to Vice-Chancellor: S. M. Shaukat, MA BSc *Panj.* Dir. of Phys. Educn.: Adil Khan, DipPE *Madr.*; Asst. Dirs. of Phys. Educn.: A. Razzaq, DipPE *Madr.*, A. Jan, BA *Panj.* Executive Engineer: S. Khan.

## CONSTITUENT COLLEGES

(All located on university campus)

[BScAgric, BEng, etc., after the name of a coll. means that courses are provided there for BScAgric, BEng, etc.]

**AGRICULTURE COLLEGE.** BScAgric (hons.). Hon. Principal—Mian Mushtaq Ahmad, BSc *Edin.* Vice-Principal—N. Ahmad Khan, MSc *Alig.*, PhD *McG.* Prof., S. Kamal, MSc *Iowa*, PhD *Missouri*; Reader, H. Khan, BSc; Sr. Lectrs., M. Hussain Khan, MSc *Panj.*, A. Raziq, BE (on leave), M. S. Roghani, MSc *Oregon State*; Jr. Lectrs., S. B. A. Shah, MSc LLB (on leave), S. R. Zaidi, MSc *Karachi*, A. F. Lodhi, MSc *Panj.* (on leave), A. Ahmad, MSc (on leave), M. A. Naqvi, BVSc *Panj.* (on leave), M. Ashfaq, MSc *Panj.*, S. B. Shah, MSc; Demrs., R. Ullah, BSc, M. H. Rizvi, MSc *Panj.* (on leave), S. U. Hyder, BScAgric; Farm Manager, M. Ahmad, BSc.

**ENGINEERING COLLEGE.** BEng. Principal—U. Durrani, BSc AssocEE *Sheff.* CIVIL ENGIN.—Reader & Hd. of Dept., S. A. Ali, BSc *Madr.*, BSc(CE) *MS Utah*; Sr. Lectrs., M. A. Ullah, BE *Osm.*, MS *Colorado State*, S. M. Yamin, BSc *Glas.*, M. Din, DiplCivEng *Osm.* ELECTR. ENGIN.—Prof. U. Durrani, BSc AssocEE *Sheff.*; Sr. Lectrs., M. S. Khattak, MSc *Tas.*, M. Abdullah, BSc(Engg) *Alig.*; Demr., A. Latif. MECH. ENGIN.—Reader & Hd. of Dept., S. A. Khan, BSc *Alig.*, MAsc *Tor.*; Reader, S. M. Ibrahim, BSc *Edin.*; Sr. Lectrs., S. I. H. Shah, BE, J. Khan, BSc(Engg) *Panj.* (on leave), M. A. Ullah, BE; Demr., A. Hamid, DiplMechEngin *Panj.* GENERAL—Sr. Lectrs., S. A. H. Rizvi, DIC, MA *Osm.*, A. Farooq, BSc(Engg) *Panj.*, MSc *Iowa*, S. Din, BE. Workshop Supt., A. Hamid.

**ISLAMIA COLLEGE.** BA, BA (Islamic theol.), BSc. Principal—A. M. Mian, BSc PhD *Lond.*

**KHYBER MEDICAL COLLEGE.** MB BS. Principal—Prof. F. M. Khan, MB BS *Panj.*, TDD *Madr.*, FRCS. ANAT.—Prof., F. M. Khan, MB BS *Panj.*, TDD *Madr.*, FRCS; Asst. Prof., S. A. R. Gardezi, MB BS *Panj.*, FRCSEd; 5 Demrs. CHEST DISEASE—Assoc. Prof., A. G. Khan, MB BS *Panj.*, TDD *Wales.* FORENSIC MED.—†Lectr., A. Zahir, MB BS *Panj.*; 1 Demr. HYG.—†Lectr., S. M. Khan; 1 Demr. MED.—Assoc. Prof., S. A. Raza, MB BS *Panj.*, MRCPed, Asst. Prof., N. D. Azam, MB BS *Panj.*, MRCP, MRCPed. OBSTET. AND GYNÆCOL.—Assoc. Prof., Mrs. S. Munir, MB BS *Panj.* OPHTHALMOL.—Assoc. Prof., Q. A. Jabbar, MB BS *Panj.*, LO *Madr.*, DOMS *Lond.* PATHOL.—4 Demrs. PHARMACOL.—Assoc. Prof., N. D. Azam, MB BS *Panj.*, MRCP, MRCPed; Asst. Prof., I. Haq, MB BS *Panj.*, MRCPed. PHYSIOL.—Asst. Prof., M. H. Alvi, MSc *Panj.*, PhD *Calif.*; 6 Demrs. 1 Biochemist.

**LAW COLLEGE.** LLB. Hon. Principal—M. Ali, BA *Panj.*, LLB *Alig.* Reader, S. B. Ahmad, BA *Osm.*, LLM *Osm. & Dal.*; Sr. Lectrs., A. Razaq Khan, BA LLB *Osm.*, M. N. Khan, BA LLB (on leave); †Lectrs., I. Ghaznavi, BA LLB *Belf.*, LLM *Qu.*, S. B. Khan, BA LLB *Panj.*, M. A. Y. Khan, BA LLB; Jr. Lectr., N. Ahmad, BA LLB.

**TEACHERS' TRAINING COLLEGE.** BT. Principal—S. Yahya Shah, MA *Lond.*, DipEd *Brist.* Reader, A. H. Alawi, MSc BT *Panj.*, MEd *Flor.*; Sr. Lectr., M. I. K. Sulemani, MA BT *Alig.*, Jr. Lectrs., M. Ashraf, BSc BT *Panj.*, A. W. Siddiqi, MEd DipEd *Osm.*, MA *Alig.*

## AFFILIATED COLLEGES

**ABBOTTABAD, Govt. College.** BA, BSc. Principal—M. J. Khan, MA PhD. 21 other Teachers.

**ABBOTTABAD, Govt. College for Women.** BA. Principal—Miss Gauhar Sultana, MA *Panj. & Ill.*, MEd. 8 other Teachers.

**BANNU, Govt. College.** BA, FSc. Principal—G. Sarwar, MScAgri *Panj.* 16 other Teachers.

**D. I. KHAN, Govt. College.** BA, BSc. Principal—Q. Inayatullah, MA *Panj.* 23 other Teachers.

**D. I. KHAN, Govt. Inter. College for Women.** FA. Principal—Mrs. T. S. Qureshi, MA. 7 other Teachers.

**KOHAT, Govt. College.** BA, FSc. Principal—

M. Khan, MA LLB *Alig.*, PhD *Bonn.* 17 other Teachers.

MARDAN, *Govt. Akbar Memorial College.* BA, BSc. Principal—M. I. Sethi, MA *Panj.* 17 other Teachers.

PARACHINAR, *Govt. Inter. College.* FA. Principal—S. H. S. Fida, BA BT MED *Tor.* 12 other Teachers.

PESHAWAR, *Edwardes College.* BA, FSc. Principal—P. Edmonds, MA DipEd *Melb.*, PhD *Bonn.* 20 other Teachers.

PESHAWAR, *Govt. College.* FA. Principal—M. A. Siddiqi. 10 other Teachers.

PESHAWAR, *Govt. Frontier College for Women.* BA, BSc. Actg. Principal—Miss Asif Jaleel, MSc *Luck.* 27 other Teachers.

PESHAWAR, *Pakistan Forest College & Research Institute.* Dir.—Amir Ahmad Khan, BScAgri *Panj.* 12 other Teachers.

PESHAWAR, *St. Francis Xavier's College for Women.* BA. Principal—Sister M. Attracta, MA *Panj.* 8 other Teachers.

SAIDU SHARIF (SWAT STATE), *Jahanzeb College.* FA, FSc, BA, BSc. Principal—Kh. Mohammad Ashraf, MA. 23 other Teachers.

## GENERAL INFORMATION

The foundation stone of the univ. was laid in 1950 by the Hon. Mr. Liaquat Ali Khan, then prime minister of Pakistan.

Ten colls. which provide courses up to the level of BA and BSc are affiliated to the univ., and there are six constituent colls. under the direct control of the univ. All postgrad. teaching is controlled by the univ. There are postgrad. classes in arts, educn., econ., law, oriental studies, sci., and plans for the next 5 yrs. include the provision of postgrad. classes in many subjs. not already covered. There are also undergrad. courses in engn., home econ. and med.

*Note.*—In accordance with the decision of the govt. of Pakistan and recommendations of the commission on natnl. educn., the univ. constitution, gen. scheme of studies and rules for exams. are at present under revision. Pass and hons. courses (3-yr. courses after inter.) will be introduced and matric. and inter. shall not remain within jurisdiction of univ. Bd. of sec. educn. will be instituted by govt. to deal with matric. and inter. exams.

**CONSTITUTION.** The univ. is governed by a private body, the senate, and its executive, the syndicate. The senate consists of the chancellor, the pro-chancellor, the vice-chancellor, *ex-officio* fellows and ordinary fellows. The syndicate is elected annually in Nov. from among members of senate by the chancellor, vice-chancellor and various facs.; the vice-chancellor is chairman.

**INCOME (1959-60).** Rs. 4,554,028 (fees, Rs. 1,103,958; govt. grants, recurring Rs. 2,125,000, non-recurring Rs. 1,000,000; other sources, Rs. 325,069).

**FACULTIES AND DEANS.** *Agric.*, F. Rahim Khan; *arts*, Prof. M. Ali Khan (Engl.); *educn.*, S. Y. Shah; *engin.*, Prof. U. Durrani; *for.*, Amir Ahmad Khan; *home econ.*, .....; *Islamic theol.*, Maulana Q. N. H. Nadvi (Islamiyyat); *law*, M. Ali; *med.*, Col. A. K. Sahibzada; *oriental learning*, Maulana A. Qadir (Urdu); *sci.*, Prof. A. M. Mian (phys.).

**UNIVERSITY PRECINCT.** The univ. is located on a campus of about 800 acres outside the Peshawar cantonment.

**LIBRARY.** Central library: about 336,052 vols. (incl. bound vols. of periodicals) plus 562 MSS. in Persian, Arabic and Pushto. In addition, each dept. has its own library.

**ADMISSION.** Min. qualif. for entry to univ. is passing of matric. exam. of a Pakistan univ. or equivalent exam. 2 yrs. post-matric.—inter.

**FIRST DEGR.FES.** 2 yrs. post-inter.—BA, BSc; 4 yrs. post-inter.—BScFor hons., BE (civil, electr. or mech.); 4 yrs. post-matric.—BA (Islamic theol.), BSc (home econ.); 5 yrs. post-matric.—MB BS, BScAgric hons.

**HIGHER DEGREES.** 1 yr. after bachelor's degree—BT; 2 yrs. after bachelor's degree—MA, MA (oriental learning), MSc, LLB; 2 yrs. after master's degree—PhD (in arts or sci.).

**DIPLOMAS.** 2 yrs. post-matric.—dipls. in French, German.

**PRIVATE CANDIDATES,** *i.e.* those in full-time employment living in the univ. area, may sit certain exams. without being required to attend classes.

**ACADEMIC YEAR.** 3 terms: mid-Sept.—end Dec.; early Jan.—end March; mid-April—mid-June.

**EXTENSION WORK.** Extension lectures are given in univ. and affiliated colls. by univ. staff and others.

**STUDENT RESIDENCES.** 13 hostels accommodating about 1600 men.

**STAFF RESIDENCES.** Residential accomm. is provided on the univ. campus for all staff members.

**PUBLICATIONS.** *Calendar* (annual); *Journal* (annual); *Brochure*; *Annual Report*; *Gazette*; *Courses of Studies*; *Exam. Regns. & Text Books*; *Exam. Results*.

**UNIVERSITY PRESS.** The univ. has its own press which prints the *Calendar*, and *Courses of Studies*, etc., in the various facs.

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	University	Affiliated Colls.	Islamia Coll.
Men . . .	1169	3669	1342
Women . .	122	662	—
Total . .	1291	4331	1342

All students are full-time.

Distribution by Faculties, etc. *Agric.*, 208 ;  
*bot.*, 12 ; *chem.*, 35 ; *econ.*, 52 ; *educn.*, 78 ; *engin.*,  
 235 ; *Engl.*, 41 ; *geog.*, 20 ; *hist.*, 41 ; *home econ.*,

27 ; *Islamiyyat*, 1 ; *law*, 196 ; *maths.*, 13 ; *med.*,  
 283 ; *Persian*, 14 ; *phys.*, 18 ; *Urdu*, 17. Total :  
 1291.

Included in the figures above are :—

Intermediate or Pre-University students, 4554.

Postgraduate students, 538.

New admissions, 3004 (incl. affiliated colls.).

Students from other countries, 4. (Iran, 3,  
 India, 1).

DEGREES AWARDED (1959). BA, 333 ; BA  
 (Islamic theol.), 10 ; BSc, 129 ; BScAgric, 6 ;  
 BScFor, 2 ; BSc (home econ.), 3 ; BT, 60 ; MA,  
 69 ; MSc, 32 ; LLB, 54 ; BE, 24.

# UNIVERSITY OF RAJSHAHI\*

Established 1953

Postal Address : Rajshahi, East Pakistan  
Cables and Telegrams : University, Rajshahi  
Telephone : Rajshahi 81

CHANCELLOR—THE GOVERNOR OF EAST PAKISTAN (*ex officio*)  
VICE-CHANCELLOR—M. AHMED, MA PhD *Lond.*  
TREASURER—NAWABZADA A. S. M. L. RAHMAN, MA *Camb.*  
REGISTRAR—S. AHMAD, MA *Dacca*  
CONTROLLER OF EXAMINATIONS—A. R. JOARDAR, MA *Alig.*  
LIBRARIAN—A. RAZZAQUE, MA *Dacca*

## TEACHING STAFF

[† = Part-Time]

### Bengali and Sanskrit

Latif, M. M., MA *Dacca*, PhD  
Bhattacharyya, S. N., MA *Calc.*  
Mannan, Q. A., MA *Dacca*  
Islam, M. N., MA *Calc.*  
Paul, S. C., MA

Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

Ather, S. A., MA *Dacca*  
Samad, A., MSc *Dacca*

Lectr.

### Education

Khan, S., MA BT MEd *Alig.* (on leave) Lectr.

### English

Siddiqui, Z. R., MA *Dacca*, BA *Oxon.*  
Islam, A. M. N., MA *Dacca*  
Ali, M., MA *Dacca*  
Ahmed, A., MA *Dacca*  
Khan, A. H., MA *Dacca*

Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Geography

Patel, A. M., MA *Alig. & Lond.*  
Siddiqui, M. I., MSc *Alig.* (on leave)  
Shamsi, F., MA *Alig.*  
Arefin, S., MA *Alig.*

Reader  
Lectr.  
Lectr.  
Lectr.

### Commerce

Islam, M. S., MA *Dacca*, MA(Econ) *Manc.*  
Hossain, M., MCom *Dacca*  
Mondal, W., MCom *Dacca*  
Talukdar, M. A. A., MCom *Dacca*  
Ahmad, S., MA  
Faruk, M. O.

Reader  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### History

Mallick, A. R., MA *Dacca*, PhD *Lond.*  
Ahmed, A. F. S., MA *Calc. & Penn.*  
(on leave)  
Akanda, S. A., MA *Dacca*  
Rahman, K., MA *Dacca*  
Imam, A., MA *Dacca & Lond.*  
(Indian Archæol.)  
Shujatullah, S., MA *Raj.*

Prof.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Economics

Huq, T., MA *Dacca*, MSc *Lond.*  
Khondker, R. H., MA *Dacca*, PhD *Lond.*  
Hossain, M., MA *Dacca & Manc.*,  
PhD *Lond.*  
Khan, M. A. M., MA *Dacca*  
Hossain, S. S., MA *Col.*  
Mondal, M. S., MA

Reader  
Reader  
Reader  
Lectr.  
Lectr.  
Lectr.

### Islamic History and Culture

Bari, A., MA DPhil *Oxon.*  
Rahim, M. R., MA *Calc.*  
Hossain, M. M., MA *Dacca*  
Rahman, M., MA *Calc.*

Reader  
Lectr.  
Lectr.  
Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Law**

Khan, A. A.	Lectr.
Chowdhury, A. A. H., MA LLB <i>Alig.</i>	Lectr.
Rahman, S. S. Z., MA LLB <i>Alig.</i>	(on leave) Lectr.
Rahman, M. H., MA LLB <i>Dacca</i> , BA <i>Oxon.</i>	Lectr.
Khan, A. L., BL	†Lectr.
Moitra, K. N., MSc BL <i>Calc.</i>	†Lectr.
Alam, A., BL <i>Calc.</i>	†Lectr.
Huq, A., BL <i>Calc.</i>	†Lectr.
Bux, M., MA BL <i>Calc.</i>	†Lectr.
Sarkar, K. C., MA BL <i>Calc.</i>	†Lectr.

**Mathematics**

Hussain, S. Q., MSc <i>Patna</i> & <i>M.I.T.</i> , PhD <i>Liv.</i>	Reader
Hossain, K. M., MA <i>Dacca</i> , MSc(Econ) <i>Lond.</i>	Reader
Rahman, M. H., MA <i>Alig.</i> , BA <i>Camb.</i>	Lectr.
Hakim, A., MA PhD <i>Calc.</i>	Lectr.
Yehya, S. M., MA <i>Panj.</i> , BA <i>Camb.</i>	(on leave) Lectr.
Mahtabuddin, M., MSc <i>Calc.</i>	Lectr.
Huq, R., MSc <i>Dacca</i> & <i>Manc.</i>	(on leave) Lectr.

Yahya, Q. A. M. M., MSc <i>Dacca</i>	Lectr.
Huq, S. A., MSc	Lectr.

**Philosophy**

Jamil, K. M., MA <i>Lond.</i> , DLitt <i>Paris</i>	Reader
Huda, M., MA <i>Dacca</i>	(on leave) Lectr.
Omar, B. M., MA <i>Dacca</i>	(on leave) Lectr.
Das, S. B., MA <i>Calc.</i>	Lectr.
Hossain, M., MA	Lectr.
Ahmed, M., MA	Lectr.

**Physics**

Hossain, A., MSc <i>Dacca</i> , PhD <i>Lond.</i>	Reader
Sarkar, M. R., MSc <i>Dacca</i> , PhD <i>Liv.</i>	Reader
Choudhury, S. A., MSc <i>Dacca</i>	Lectr.
Siddiqui, M. H., MSc <i>Dacca</i>	Lectr.
Sarkar, A. Q., MSc <i>Dacca</i>	Lectr.

**Psychology**

Mughni, M. S., MA <i>Alig.</i> , PhD <i>Lond.</i>	Reader
Rahman, S. M., MA <i>Patna</i>	(on leave) Lectr.
Zakia, Mrs., MSc MB BS <i>Calc.</i>	Lectr.
Junaid, M., MA <i>Patna</i>	Lectr.
Imam, A., MA <i>Patna</i>	Lectr.

**Sanskrit, see Bengali****ADMINISTRATIVE AND OTHER STAFF**

Inspector of Colls. : . . . . Dep. Registrar :  
M. Khan, BL *Calc.* Asst. Registrar (Academic) :  
M. A. Din, MA BT *Calc.* Dir. of Phys. Educn. :  
I. Ahmed, BPhysEd *Oregon.* Phys. Instr. : M.  
Hafizullah, BA DipPhysEducn *Calc.* Asst.  
Librarians : T. Muhammad ; A. Rahman.

Wardens of Student Residences : M. Islam  
(Fuller Hostel) ; K. Rahman (New Hostels) , Z.  
Rahim and A. M. Khan (Matihar Hostels)  
Med. Officer : . . . . ; Asst. Med. Officer : A.  
Kayum.

**AFFILIATED COLLEGES**

[IA, IIS, BA, etc., after the name of a coll. means that courses are provided there for  
Intermediate Arts, Intermediate Islamic Studies, BA, etc.]

BAGERHAT, *Prafulla Chandra College*, P.O. Bagerhat, Khulna (founded 1918). IA, ISc, ICom, BA, BA (hons.) in Arabic, philos. and Engl. Principal—M. A. Awwal, MA. 21 other Teachers.

BOGRA, *A.H. College*, P.O. Bogra (1939). IA, ISc, BA, BA (hons.) in Arabic and Islamic hist. Principal—A. Wadud, MA. 24 other Teachers.

DAULATPUR, *Brajatal College*, P.O. Daulatpur, Khulna (1902). IA, ISc, ICom, BA, BA (hons.) in Engl. and philos., BSc. Principal—A. S. Ahmed, MA. 26 other Teachers.

DINAJPUR, *Surendra Nath College*, P.O. Dinajpur (1942). IA, ISc, ICom, BA, BCom. Principal—S. M. Nadvi, MA. 27 other Teachers.

DINAJPUR, *Thakurgaon College*, P.O. Thakurgaon (1959). Principal—A. Karim. 6 other Teachers.

GAIBANDHA, *Gaibandha College*, P.O. Gaib-

andha, Rangpur (1947). IA, ISc, BA. Principal—N. C. Sen, MA. 15 other Teachers.

JESSORE, *Michael Madhusudhan College*, P.O. Jessore (1941). IA, ISc, ICom, BA, BCom. Principal—A. Hai, MA. 18 other Teachers.

KHULNA, *Commerce College*, P.O. Khulna (1953). ICom. Principal—M. A. Hannan, MA. 7 other Teachers.

KHULNA, *R.K. Girls' College*, P.O. Khulna (1940). IA, BA. Principal—A. D. Sinha, MA. 12 other Teachers.

KUSHTIA, *Kushtia College*, P.O. Kushtia (1942). IA, ISc, ICom, BA, BCom. Principal—M. U. Bhuiyan, MA. 20 other Teachers.

MAGURA, *Magura College*, P.O. Magura, Jessore (1940). IA, IIS. Principal—M. Rahman, MA. 14 other Teachers.

MONAKASHA, *Adina Fazlul Haque College*, P.O.

Monakasha, Rajshahi (1938). IA. Principal—Z. Rahman, MA. 4 other Teachers.

NAOGAON, *Naogaon B.M.C. Islamic & General Intermediate College*, P.O. Naogaon, Rajshahi (1946). IA, IIS. Principal—M. A. Hossain, MA. 14 other Teachers.

NATORE, *Natore College*, P.O. Natore, Rajshahi (1946). IA, ICom. Principal—..... 12 other Teachers.

NAWABGANJ, *Nawabganj College*, P.O. Nawabganj, Rajshahi (1957). IA, ICom. Principal—R. U. Khan, MA PhD. 7 other Teachers.

NILPHAMARI, *Nilphamari College*, P.O. Nilphamari, Rangpur (1958). IA. Principal—A. Ahmed, MA. 4 other Teachers.

PABNA, *Edward College*, P.O. Pabna (1898). IA, ISc, ICom, BA, BSc, BA (hons.) in maths. and Bengali, BSc (hons.). Principal—A. Huq, MA. 30 other Teachers.

RAJSHAHI, *Rajshahi City College* (1958). IA. Principal—S. Ahmed, MA. 6 other Teachers.

RAJSHAHI, *Rajshahi College*, P.O. Rajshahi (1828). IA, ISc, ICom, BA, BSc, BCom, BA (hons.) in Engl., Bengali, Arabic, hist., Islamic hist., econ., pol., philos., maths., BSc (hons.) in maths., phys. and chem. Principal—S. Z. Choudhury, MA. 62 other Teachers.

RAJSHAHI, *Rajshahi Medical College*, P.O.

Rajshahi (1958). MB BS. Administrator—Major Burhanuddin. Principal—Lt.-Col. G. Ahmed. 7 other Teachers.

RAJSHAHI, *Rajshahi Women's College* (1957). IA. Principal—O. Ghani, MA. 6 other Teachers.

RAJSHAHI, *Teachers' Training College*, P.O. Rajshahi (1956). Dipl. in educn. Principal—A. N. M. Chowdhury. 9 other Teachers.

RANGPUR, *Carmichael College*, P.O. Rangpur (1916). IA, ISc, ICom, BA, BSc. Principal—A. Ali, MA Lond. & *Rajshahi*. 28 other Teachers.

RATANGANJ, *Victoria College*, Narail, P.O. Ratanganj, Jessore (1886). IA, ISc. Principal—A. Baker, MA. 11 other Teachers.

SAIDPUR, *Quaid-e-Azam College*, P.O. Saidpur, Rangpur (1948). IA. Principal—M. Hassan, MA. 6 other Teachers.

SATKHIRA, *Satkhir College*, P.O. Satkhira, Khulna (1946). IA, ISc, ICom. Principal—M. D. A. Khan, MA. 23 other Teachers.

SIRAJGANJ, *Islamic Intermediate College*, P.O. Sirajganj, Pabna (1892). IIS. Principal—K. A. Jahl, MA. 4 other Teachers.

SIRAJGANJ, *Sirajganj College*, P.O. Sirajganj, Pabna (1940). IA, ICom, BA. Principal—S. A. Ali, MA. 15 other Teachers.

## GENERAL INFORMATION

Before the partition of Bengal in 1947 the Univ. of Dacca was purely residential and the jurisdiction of the Univ. of Calcutta extended throughout Bengal. In August 1947 the Univ. of Dacca assumed the responsibility of affiliating all those colls. in East Bengal which had formerly been under the jurisdiction of the Univ. of Calcutta; this resulted in the centralization of all higher educn. at Dacca, an immediate effect being overcrowding in degree and postgrad. classes. The need for another univ. was realized and the govt. chose as its location Rajshahi where the Govt. Coll., founded in 1828, had a high reputation. As long ago as 1917 the Sadler commission had indicated the suitability of Rajshahi as the site for a univ. in North Bengal.

The univ. was founded on July 1, 1953; the first vice-chancellor was Dr. I. H. Zuberi, who formulated the scheme for the establ. of the univ. and drafted the bill which was passed by the provincial legislature.

Rajshahi Univ. confines its activities to postgrad. teaching and res., pass and hons. courses in the facs. of arts and sci. being available in the affiliated colls. Postgrad. teaching has been organized in law, Engl., econ., comm., philos., psychol., hist., Islamic hist., maths., phys., chem. and geog.; also for BED. In addition, the univ. has started a sch. of scis. (econ., pol. sci., sociol., anthropol., psychol.) and a sch. of oriental studies

(Arabic, Persian, Urdu, Sansk., Pali); there is a separate dept. of Bengali lang. & lit.

CONSTITUTION. On the senate are represented deans of facs., hds. of depts., principals and governing bodies of all affiliated colls., and reps. of the provincial legislature and all registered grads.; the government nominates 20 members. The syndicate, a smaller body responsible for day-to-day admin., is composed of the deans, 2 representatives of the principals of affiliated colls., and reps. of senate incl. those of registered grads.; members of the syndicate *ex officio* are: the dir. of public instructn., East Bengal, the pres. of East Bengal secondary educn. bd. and the inspectress of schs.; the chancellor nominates 3 members. The academic bd. is responsible for organizing courses of studies, prescribing syllabuses and conducting exams. The vice-chancellor is chairman of all these bodies.

INCOME (1958-59). Rs. 1,467,872 (govt. grant, 75 per cent.; fees and other sources, 25 per cent.).

FACULTIES AND DEANS. Arts, Prof. A. R. Mallick (hist.); educn., A. N. M. Chowdhury; engin., .....; law, A. A. Khan; med., Lt.-Col. G. Ahmed; sci., S. M. Moghni (psychol.).

UNIVERSITY CAMPUS. The territorial jurisdiction of the univ. extends over the Rajshahi



division, pop. about 14,082,240. It is intended to establ. a small univ. town on 1000 acres of land acquired 6 mls. from Rajshahi. The govt. of Pakistan has given a grant for the univ. bldgs., and plans have been prepared by Lt.-Col. G. Swayne Thomas, whose services were made available by the Australian govt. under the Colombo plan. Construction of bldgs. has commenced; hostel bldgs. have been completed and the phys. lab. nearly completed.

**LIBRARY.** Approx. 28,000 vols. Primarily for postgrad. and res. work.

**FIRST DEGREES.** BA, BA (hons.), BSc, BSc (hons.), BCom, 2 yrs. after inter. MB BS degrees cannot be taken by pt.-time or evg. study.

*Note.*—From 1960-61 3-yr. degree pass courses followed by 2-yr. master's degree courses, and 3-yr. degree hons. courses followed by 1-yr. master's degree courses have been introduced.

**HIGHER DEGREES.** BEd, 1 yr. after degree; LLB, 2 yrs. after degree; MA, 2 yrs. after BA or BA (hons.); MSc, 2 yrs. after BSc or BSc (hons.); MCom, 2 yrs. after BCom; MEd, 1 yr. after BEd; PhD in arts, 2 yrs. after MA.

**DIPLOMA.** Postgrad. dipl. in psychol.

**RESEARCH FACILITIES** are available in facs. of arts, educn. and law.

**STUDY LEAVE.** All teachers who have com-

pleted 3 yrs.' continuous service are entitled to study leave of 2 yrs. on half salary; full salary is admissible if the univ. deputes a teacher for study; full salaries are also paid to teachers who obtain Nuffield fellowship or fellowship or scholp. awarded by the govt. of Pakistan or by Colombo plan countries.

**FEES.** Arts, Rs. 12 p.m.; phys. & chem., Rs. 15.

**TERMS.** July-Sept.; Oct.-Dec.; Jan.-May.

**STUDENT RESIDENCES.** (For Wardens, see 'Admin. and Other Staff', *above*.) At Rajshahi P.O. and district: Fuller (postgrad.) hostel, accomm. 80; 6 other hostels, accomm. 205.

**MILITARY FORMATION.** There is a detachment of the O.U.T.C. for the trg. of univ. students

**STUDENTS' UNION.** There is a students' union with the vice-chancellor as pres.

**HEALTH SERVICE.** There is a univ. med. officer, and students are allowed free advice and med. from the univ. dispensary.

**RECREATION.** All degree colls. have facilities for organized games.

**PUBLICATIONS.** *Calendar*, biennial (2 vols, price Rs. 6, publ. by Oxford Univ. Press).

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: 5 hostel bldgs. on univ. campus.

**RETIREMENTS.** A. R. Akhunji (educn.); I. Islam (educn.).

**RESIGNATIONS.** A. K. M. F. Rahman (chem.); A. S. M. Aijaz (educn.), apptd. to educn. dept., Dacca; A. H. M. Karim (educn.), apptd. govt. sch. inspector; S. Haque (educn.); Miss R. Khan (Engl.), to higher study in U.K.; M. Z. Islam (hist.), apptd. pres., Secondary Educn. Bd., Dacca; Z. Rahman (law), apptd. to govt. service; M. M. R. Choudhury (phys.), apptd. to Karachi Polytechnic Inst.

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	13,108	—
Women . . .	719	—
<b>Total</b>	<b>13,827</b>	

Distribution by Faculties. *Arts*, 8313; *econ.* 1975; *educn.*, 67; *law*, 81; *med.*, 90; *sci.*, 3301. Total: 13,827.

*Included in the figures above are :—*

Intermediate students, 10,343.

Postgraduate students, 658.

New admissions, 4692.

Students from other countries, 26. (Country from which largest number came: India).

**DEGREES AWARDED (1958-59).** *Arts*: BA, 451; BA (hons.), 51; MA, 55. *Comm.*: BCom, 48; MCom, 7. *Educn.*: MEd, 2; BEd, 32. *Law*: LLB, 36. *Sci.*: BSc, 117; BSc (hons.), 14; MSc, 15. *Total number of first degrees awarded*, 681.

# UNIVERSITY OF SIND\*

Founded 1947

*Postal Address* : Hyderabad, West Pakistan

*Cables and Telegrams* : University, Hyderabad, West Pakistan

*Telephone (Registrar)* : 2181

CHANCELLOR—THE GOVERNOR OF WEST PAKISTAN (*ex officio*)

VICE-CHANCELLOR—M. RAZIUDDIN SIDDIQI, MA *Camb.*, PhD *Leip.*, DSc *Osm.*

REGISTRAR—M. HUSAIN, MA

PROJECT DIRECTOR, SIND UNIVERSITY CONSTRUCTIONS—M. AHMAD SHAIKH, MSc *Chic.*, BE

DEPUTY REGISTRAR—D. M. NAREJO, MA LLB

LIBRARIAN—M. A. KAZI, MA

## TEACHING STAFF

[†=Part-Time]

### Arabic

Jalbani, G. N., MA  
Ahmed, M. A.

Reader-in-Charge  
†Teacher

Yousafzai, A. K., MA *Alig.*  
Beg, M. A., MA *Alig.*  
Shah, N. A., MA

Lectr.  
Lectr.  
Lectr.

### Botany and Plant Breeding

Islam, A. S., MSc PhD *Manc.* Prof., Hd. of Dept.  
Choudhry, I. I., MSc *Alig.*, DSc *Tübingen*

(Bot.) Reader  
Matinuddin Khan, MSc *Alig.* (on leave) Lectr.  
Hyder, S. Z., MSc Lectr.  
Ahmad Khan, A., MSc (on leave) (Bot.) Demr.  
Hakim, S. A., MSc Demr.

### Education

Baloch, N. A., MA LLB *Alig.*, MA  
EdD *Col.* Prof., Hd. of Dept.  
Shami, P. A., MA *Col.*, BT Reader  
Memon, S. M., MA BT MEd Reader  
Khan, Mrs. Aqila N., MA BT PhD Lectr.  
Ali, I., MA I/T *All.* Lectr.  
Najmi, M. A. K., BSc *Osm.*, BT *Karachi*,  
MSc N.Y.*StateU.* Lectr.  
Khan, A., MA BT Lectr.  
Arain, A. A. U., MA Demr.  
Ansari, M. A., MA Demr.  
Mohammad, S. (Arts & Crafts) Demr.

### Chemistry

Kazi, M., MSc LLB PhD *Lond.*  
Prof., Hd. of Dept.  
Naqvi, S. N. A., MSc *Alig.* (on leave) Lectr.  
Arain, I., MSc *Karachi* (on leave) Lectr.  
Malik, A. A., MSc *Panj.* Lectr.  
Akhtar, M. I., MSc Lectr.  
Yusaf Khan, M., MSc (Org. C.) Lectr.

### English

Ahmad, I., MA LLB  
(on leave) Reader, Hd. of Dept.  
Wasti, S. M. J., MA *Camb.* Reader  
Khamisani, Mrs. Amina, MA Lectr.  
Ghayasuddin, MA Lectr.  
Arjanlal, MA Tutor  
Farooqi, Miss Khalida J., MA Tutor

### Comparative Religion and Islamic Culture

Halepota, A. J., MA *Bom.*, DPhil *Oxon.*  
Prof., Hd. of Dept.  
Kazi, A. K., BA PhD *Lond.*, Maulvi Fazil  
*Panj.* Lectr.  
Khoja, A. A. N., MA Lectr.

### Fisheries, see Zool. and Fisheries

### Economics

Khan, N. A. G., MA BT PhD *Bom.*  
Prof., Hd. of Dept.  
Abro, M. E., MSc(Econ) *Lond.*, MA Sr. Reader

### Geography

Memon, M. M., MSc BT *Alig.*  
Reader, Hd. of Dept.  
Ahmad, K. S., BSc *Alig.*, MA *Karachi* Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Geology**

Ahmed, M. R., MSc *Karachi* Lectr.-in-Charge  
 Ahmed, K., BSc *Karachi* Demr.

**History, General**

Bashir, A., MA *Panj.*, PhD *Lond.*  
 Prof., Hd. of Dept.  
 Muhammad, Y., MA PhD *Lond.* Lectr.

**History, Muslim**

Siddiqui, M., MA *McG.* Reader, Hd. of Dept.  
 Pathan, M. H., MA Lectr.

**Islamic Culture**, see Comparative Religion**Mathematics and Statistics**

Abbas, S., MA Reader, Hd. of Dept.  
 Ghori, Q. K., MSc PhD Lectr.

**Persian**

Bakhsh, K. N., MA *Bom.*, PhD *Gött.*,  
 MEd Reader, Hd. of Dept.  
 Saleem, H. A., Munshi Fazil  
 Adib Fazil *Panj.*, MA Lectr.  
 Kazi, G., MA †Teacher

**Philosophy**

Farooqui, W., MA Lectr.-in-Charge  
 Ahmed, T., MA Tutor

**Physics**

Faruqi, A. Z., MSc *Alig.* (on leave) Lectr.  
 Mastoor, M. A., MSc LLB *Karachi*  
 (on leave) Lectr.  
 Ismail, A. Z. M., MA MSc *Panj.*,  
 BA *Camb.* Lectr.-in-Charge  
 Ahmad, A., MSc Lectr.  
 Jafri, S. I. N., MSc Demr.  
 Islam, A., MSc Demr.

Chaudhry, N. A., MSc

Arain, I., MSc *Karachi*

Demr.  
 (on leave) †Teacher

**Political Science**

Khan, N. H., MA  
 (on leave) Reader, Hd. of Dept.  
 Khan, M. H. H., MA LLB *Alig.*

Hamid, A., MA Lectr.-in-Charge  
 Umar, M., MA Lectr.  
 Rizwanali, MA Tutor

**Psychology**

Hassan, Mrs. Rafia, MA MEd *Harv.*  
 Lectr.-in-Charge  
 Ahmad, A., MA Tutor  
 Haque, A., MA Tutor

**Sindhi**

Jatoi, A. H., MA BT Reader-in-Charge  
 Khwaja, G. A. A., MA Lectr.  
 Nizamani, M. M., MA Lectr.

**Urdu**

Mustafa Khan, G., MA LLB *Alig.*,  
 MA PhD DLitt *Nag.* Prof., Hd. of Dept.  
 Rashidullah, K., MA Lectr.  
 Hashmi, S. A., MA Lectr.

**Zoology and Fisheries**

Akbar, S., MSc *Alld.*, PhD *Alig.*  
 (Zool.) Reader, Hd. of Dept.  
 Ali, S., MSc (Zool.) Demr.  
 Ahmad, S., MSc (Zool.) Demr.

**CENTRAL SUPERIOR SERVICES CLASSES**

Siddiqi, A. A., MA LLB *Alld.*  
 Reader, Hd. of Dept.

**ADMINISTRATIVE AND OTHER STAFF**

Univ. Med. Officer : M. I. Shaikh, MB BS *Vienna*

**AFFILIATED COLLEGES**

[BA, ISc, etc., after the name of a coll. means that courses are provided there for  
 BA, Intermediate Science, etc.]

DADU, *Govt. College*. BA (pass). Principal—  
 S. S. Hussain. 8 Teachers.

DADU, *Law College*. LLB. Principal—N. A.  
 Akhund. 5 Teachers.

HALA, *Sarwari Islamia College*. BA, ICom.  
 Principal—M. A. Chana. 9 Teachers.

HYDERABAD, *City Arts College*, Station Rd. BA  
 (pass). Principal—M. A. Abbas. 19 Teachers.

HYDERABAD, *Govt. College*. BA, BSc (pass).  
 Principal—A. C. S. Gilani. 32 Teachers.

HYDERABAD, *Govt. Girls' College*. BA, BSc  
 (pass). Principal—Mrs. Shams Abbasi. 23  
 Teachers.

HYDERABAD, *Law College*, Risala Rd. LLB.  
 Principal—A. Jalil. 27 Teachers.

HYDERABAD, *Liaquat Medical College*. MB BS.  
 Principal—Col. N. Khan. 48 Teachers.

HYDERABAD, *Muslim Arts College*. BA (pass).  
 Principal—K. A. N. Iyer. 10 Teachers.

HYDERABAD, *Nazrath College*. BA, ISc. Principal—Mother Mary Aidan. 14 Teachers.

HYDERABAD, *Sachal Sarmast Arts and Commerce College*. BA (pass), ICom. Principal—S. T. A. Naqvi. 15 Teachers.

HYDERABAD, *Sind College of Commerce*. BCom. Principal—S. Q. Ahmed. 11 Teachers.

HYDERABAD, *Sind Oriental College*. Moulvi Fazil (in Arabic), Munshi Fazil (in Persian), Adib Fazil (in Urdu & Sindha). Principal—M. A. Ahmed Abbasi. 12 Teachers.

HYDERABAD, *Sind Tibbiya College*. Final yr. Tibb. Principal—M. I. Shaikh. 14 Teachers.

JACOBABAD, *Govt. College*. IA. Principal—S. Shahid Ali. 6 Teachers.

KHAIRPUR MIRS, *Mumtaz Govt. College*. BA, BSc, ICom. Principal—Prof. H. H. Zaidi. 24 Teachers.

LARKANA, *College of Commerce*. BA, BCom. Principal—Hamidullah. 5 Teachers.

LARKANA, *Govt. College*. BA, ISc. Principal—S. W. S. Qadri. 19 Teachers.

LARKANA, *Law College*. LLB. Principal—G. Nabi Shaikh. 4 Teachers.

MIRPURKHAS, *Law College*. LLB. Principal—M. L. Gandhi. 8 Teachers.

MIRPURKHAS, *Shah Abdul Latif Govt. College*. BA, ISc. Principal—K. Hussain. 17 Teachers.

NAWABSHAH, *Govt. College*. BA, ISc. Principal—Y. S. Tahir Ali. 11 Teachers.

NAWABSHAH, *Law College*. LLB. Principal—M. Yakoob Qureshi. 9 Teachers.

SHIKARPUR, *C. and S. Govt. College*. BA, ISc. Principal—M. Ali Khan. 16 Teachers.

SUKKUR, *Govt. College*. IA. Principal—M. A. Ansari. 8 Teachers.

SUKKUR, *Govt. Girls' College*. IA. Principal—Miss A. B. Omar. 5 Teachers.

SUKKUR, *Islamia College*. BA, BCom, ISc. Principal—S. M. N. Nadvi. 16 Teachers.

SUKKUR, *Law College*. LLB. Principal—M. Ali Shah. 5 Teachers.

SUKKUR, *Oriental College*. Adib Fazil (in Urdu & Sindhi). Principal—A. W. Mussavi. 6 Teachers.

TANDO ALLAHYAR, *S.M. Arts College*. IA. Principal—Aka Zia Ahmed Sharifi. 4 Teachers.

TANDO JAM, *Agriculture College*. MSc(Agri). Principal—A. R. Arain. 26 Teachers.

## GENERAL INFORMATION

Although the idea of a separate univ. for Sind was first broached in 1886, it was not until 1940 that the autonomous govt. of Sind apptd. a cttee. to go into the entire problem. The report of the Sind Univ. cttee., issued in 1941, covered the entire field of organizational and academic issues involved, but action was delayed until a regular bill for the creation of a separate univ. for Sind was introduced in the Sind legislature in 1945, and became an act in 1947.

Since a separate Karachi Univ. for the Karachi federal area was establd. as from session 1951-52, the headquarters of the Univ. of Sind were moved from Karachi to Hyderabad in May 1951.

The univ. is affiliating, examining and teaching. Undergrad. teaching is provided by the affiliated colls. and facilities for postgrad. study (incl. BA (hons.) and BSc (hons.) courses) and res. by the univ. itself.

FACULTIES AND DEANS. *Arts* (incl. comm. and teaching), Dr. N. A. Baloch; *Islamic and other religious studies*, A. S. A. Akbar Shah; *law*, A. K. Brohi; *med.*, Dr. M. R. Siddiqi; *sci.*, Prof. A. L. Shaikh (maths. & stats.); *technol.* (incl. agric. and engin.), Dr. A. M. Shaikh.

UNIVERSITY PRECINCT. A univ. township scheme has been approved in principle by the provincial and central govts., and architectural work has already begun. The scheme envisages the establt. of the following instns. under direct

univ. control: educn. dept. with model primary sch. and model collegiate sec. sch.; arts colls.; comm. colls.; law coll.; sci. coll.; engin. coll.; technical inst.; and med. coll. with attached hosp.

LIBRARY. 49,214 vols.

ADMISSION TO COURSES IN UNIVERSITY TEACHING DEPARTMENTS. *TD*: candidates must be undergrads. of Sind or a recog. univ. and must have taught for at least 2 yrs. *BT*: candidates must be grads. of Sind or a recog. univ. and must have taught for at least 1 yr. *MEd*: candidates must have had 1 yr.'s teaching experience after passing BT (1st or 2nd class), MA, MSc or LLB (with BA degree) in the 1st class or 2nd class. *DEd*: candidates possessing MED of Sind or a recog. univ. may register. *DPhil*: candidates possessing MA or MSc of Sind or a recog. univ., or an equivalent exam. of a recog. univ., will be allowed to register provisionally. *MA* (in religion and in Islamic culture): those who have passed the exam. for the BA or BSc of Sind or a recog. univ., or equivalent degree of any recog. univ., are eligible for admission.

Exams. of all statutory univs. in India and Pakistan are recog. for the purpose of admission.

FIRST DEGREES. 2 yrs. after inter.—BA pass & hons., BSc pass & hons. (after inter. sci.), BSc (Agri) (after inter. sci.), BCom (after inter.

comm.); 5 yrs. after inter. sci.—MB BS; also BE (civil, mech. & electr.).

*Note.*—With effect from 1960-61, degree courses in arts and sci. extend over 3 yrs. after inter. and, in agric., over 5 yrs. after matric.

**HIGHER DEGREES.** 1 yr.—BT; 2 yrs.—LLB, MA, MSc, MSc(Agri), MEd (after MA, MSc or BT), LLM (after LLB). Also DEd, 1 yr. after MEd; DPhil, not less than 2 and not more than 5 yrs. after MA or MSc.

**DIPLOMA.** 10 wks.—TD (teacher's dipl.).

**ORIENTAL TITLES.** 3 yrs.—Adib Alim, Adib Fazil (in Urdu & Sindhi), Moulvi Fazil (in Arabic), Munshi Alim, Munshi Fazil (in Persian).

**ACADEMIC YEAR.** 3 terms: last Monday in July to 4th Sat. in Oct.; 2nd Monday in Nov. to last Sat. in Jan.; 2nd Monday in Feb. to last Sat in April.

**FEES.** Tuition fees: Rs. 150 p.a. or Rs. 15 p.m. for BA (hons.), BSc (hons.), BT, MA, MSc; Rs. 300 p.a. or Rs. 30 p.m. for MEd; Rs. 50 for TD (2 terms). Supervision fee: Rs. 120 p.a. for DEd, DPhil, BPhil.

A FOREIGN UNIVERSITIES' BUREAU OF INFORMATION has been set up to guide all students in West Pakistan who desire to study in the univs. of U.K. and U.S.A.

**RECREATION.** The univ. bd. of sports organizes the univ.'s sports activities. Individual colls. also provide facilities for indoor and outdoor games.

**PUBLICATIONS.** *Calendar*, Rs. 3.8; *Annual Reports*; *Journal of Education*, Rs. 7; *Univ. Gazette*, fortnightly, As 2.

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	University	Teaching Depts.*	Affiliated Colls.*
Men	714		8336
Women	102		576
Total	816		8912
Distribution by Faculties. Univ. Teaching			

Depts.: arts, 500; religious studies, 18; sci., 243; teacher's dipl. course, 55. Total: 816.

Affiliated colls.: agric., 258; arts, 5731; law, 466; med., 141; oriental, 418; sci., 1898. Total: 8912.

**DEGREES AWARDED (1958-59).** BA (pass & hons.), 163; BCom, 3; BT, 11; MA, 14; BSc (pass & hons.), 20; MSc, 7; BE, 2; MB BS, 15; LLB, 42.

\* All students are full-time

# **RHODESIA AND NYASALAND**

**University College of Rhodesia and Nyasaland (p. 706)**

# UNIVERSITY COLLEGE OF RHODESIA AND NYASALAND\*

Incorporated 1955 ; previously established as Rhodesia University College, 1953

*Postal Address* : Private Bag 167H, Salisbury, Southern Rhodesia

*Cables and Telegrams* : Unicoll, Salisbury

*Telephones* : Salisbury 35674, 35260

**PRESIDENT**—H.M. QUEEN ELIZABETH THE QUEEN MOTHER

**CHAIRMAN OF COUNCIL**—The Rt. Hon. THE VISCOUNT MALVERN, CH, KCMG, DCL *Oxon.*, LL.D.  
*Lond.*, *Rand & Rhodes*, FRCS

**PRINCIPAL**—W. ADAMS, CMG, OBE, BA *Lond.*, LL.D. *Malta & Melb.*

**VICE-PRINCIPAL**—B. A. FLETCHER, MA BSc *Lond.*

**REGISTRAR**—J. D. ANGUS, BA *Lond. & Durh.*

**LIBRARIAN**—D. A. CLARKE, MA *Oxon.*

**ACCOUNTANT**—J. WHITLEY

## TEACHING STAFF

### African Languages

Fortune, G., S.J., MA PhD *Cape T.* Prof.

### African Studies

Mitchell, J. C., BA(SocSc) *Natal*, BA *S.A.*,  
DPhil *Oxon.* Prof.

Lewis, I. M., BSc *Glas.*, BLitt DPhil *Oxon.* Lectr.

Sommerfelt, A., MA *Oslo* Lectr.

van Velsen, J., BSc *Oxon.*, PhD *Manc.* Lectr.

### Agriculture, see also Bot., Econ., Zool.

Davis, A. G., BSA *Tor.*, MSc *Wales* Prof.

Oliver, J., BSc(Agric) *Durh.*, PhD *R'dg.* Sr. Lectr.

Allison, J. C. S., MSc(Agric) *Pret.* Lectr.

Manson, J. L., MSc(AgricEng) *Durh.* Lectr.

Topps, J. H., BSc PhD *Lond.* Lectr.

Watson, J. P., BA(Agric) MA BSc *Oxon.* Lectr.

Quartermain, A. R., MSc(Agric) *N.Z.*

Mueller, P. W., BSc *R'dg.* Asst. Lectr.  
Res. Fellow

### Botany

Boughey, A. S., BSc *Lond.*, PhD *Edin.* Prof.

Douglas, Barbara, BSc PhD *Lond.* Lectr.

Noel, A. R. A., BSc *Lond.* Lectr.

Loveless, A. R., MA PhD *Camb.* (Agric.) Lectr.

### Chemistry

Harper, S. H., DIC, PhD DSc *Lond.*,  
FRIC Prof.

Eve, A. J., MSc *Rhodes* Lectr.

Eve, D. J., MSc *Rhodes* Lectr.

Robins, P. A., BSc PhD *Lond.* Lectr.

Swart, E. R., DSc *Pret.* Lectr.

Jenkins, W. L., MSc PhD *Wales* (Agric.) Lectr.

Casapieri, P., BSc *Nott.* Res. Fellow

Whitehead, D. L., MSc(Agric) *Natal*  
Res. Fellow

### Classics

Carney, T. F., BA PhD *Lond.*,  
DLitt&Phil *S.A.* Prof.

Forder, M. Philippa, BA *Camb.*, MA *Cape T.*  
Asst. Lectr.

### Economics

..... Prof.

Taylor, W. L., MA *N.Z.*, MSc(Econ) *Lond.*  
Sr. Lectr.

Ngcobo, S. B., BA *S.A.*, BEcon *Natal*,  
MA *Yale* Lectr.

Palley, Claire, BA LLB *Cape T.* Lectr.

Johnson, R. W. M., MAgrSc *N.Z.*  
(Agric.) Lectr.

### Education

Rousseau, H. J., MA BEd DLitt *Cape T.*,  
DEd *S.A.* Prof.

Rogers, C. A., PhD *Lond.*, BEd *Melb.*, MA  
DipEd *N.Z.* Sr. Lectr.

Irvine, S. H., MA EdB *Aberd.* Asst. Lectr.

### English

MacKenzie, N. H., MA *S.A.*, PhD *Lond.* Prof.

Ravenscroft, A., BA *Camb.*, MA *Cape T.* Lectr.

Reed, J. O., BA *Oxon.* Lectr.

\* Associate Member of the Association of Universities of the British Commonwealth

### Government

Willson, F. M. G., BA(Admin) *Manc.*,  
MA DPhil *Oxon.* Prof.

### History

Stokes, E. T., MA PhD *Camb.* Prof.  
Brown, R., MA *Camb.* Lectr.  
Ranger, T. O., BA DPhil *Oxon.* Lectr.

### Mathematics

Manwell, A. R., BSc *Lond.* Prof.  
Butler, Rev. W. J., MSc *Lond.* Lectr.  
Tennant, W., BSc *Lond.*, MA *Camb.* Lectr.

### Modern Languages

Rasmussen, B. H., BA *Lond.* Prof.  
Parker, J. M., MA PhD *Camb.* Lectr.  
Wake, C. H., MA *Cape T.*, DU *Paris* Lectr.

### Physics

Yates, E. L., MSc *Wales*, PhD *Wales* &  
*Camb.*, FIP Prof.  
Gough, D. I., MSc *S.A.*, PhD *Rand* Lectr.

McElhinney, M. W., BSc PhD *Rhodes* Lectr.  
Brock, A., MA *Camb.* Asst. Lectr.

### Zoology

Edney, E. B., BSc *S.A.*, DIC, PhD *Lond.*,  
DSc *Birm.* Prof.  
Rankin, Jessie J., BSc PhD *Edin.* Sr. Lectr.  
Bursell, E., MSc *Natal*, PhD *Camb.* Lectr.  
Weir, J. S., BSc PhD *Glas.* Lectr.  
Mettrick, D. F., BSc *Wales*, PhD *Lond.*  
(Agric.) Lectr.  
Barrass, R., BSc *Lond.*, PhD *Nott.* Res. Fellow  
Jooste, Kate F., BSc *St.And.*, PhD *Lond.*  
Res. Fellow  
Mettrick, Mary B., BSc *Wales*, DIC,  
PhD *Lond.* Res. Fellow  
Woodrow, D. F., BSc *Nott.* Res. Fellow

### INSTITUTE OF EDUCATION

Fletcher, B. A., MA BSc *Lond.* Prof., Dir. of Inst.  
Rouse, A. F., CMG, MA *Oxon.* Res. Fellow

## ADMINISTRATIVE AND OTHER STAFF

Estates Manager: D. Garden. Asst. Registrar:  
P. Butterfield, MA *Camb.* Dep. Librarian: H.  
Fairhurst, MA *Camb.* Asst. Librarians: Mrs.  
Elspeth A. Daniels, BA *Rhodes*; Margaret

Vowles, BA *Natal*, Dipl in Librarianship *Cape T.*,  
FSALA.  
Farm Manager: M. J. Humphreys.

## GENERAL INFORMATION

The coll., originally incorporated under the Southern Rhodesia 'University Charter and Inaugural Board (Private) Act, 1952', and known as the Rhodesia Univ. Coll., was establd. by royal charter in Feb. 1955. The charter establishes a council and an academic bd. which are in control of academic policy. The coll. is a multi-racial institution, open to all students without distinction on racial grounds. It is intended primarily to serve the higher educnl. needs of the Federation of Rhodesia and Nyasaland but admits students from other territories.

Towards the capital costs of bldg. and equipment H.M. govt. has given grants totalling £2,875,000. Private benefactions include a gift from the British S. Africa Co., Rhodesian Anglo-American Ltd., and Rhodesian Selection Trust, Ltd., of £200,000 for the bldg. of the library and a gift of £36,000 from the Beit trustees for the constrcn. of the Alfred Beit hall. The federal govt. makes a quinquennial grant towards recurrent expenditure.

The coll. has been admitted to special relation with the Univ. of London.\* Teaching began in 1957.

FACULTIES AND DEANS. *Arts* (incl. educn.),

Prof. N. H. MacKenzie (Engl.); *sci.* (incl. agric.),  
Prof. S. H. Harper (chem.).

COLLEGE SITE. The main site of 474 acres at Mount Pleasant, presented by the city authorities, adjoins and overlooks the northern residential area of Salisbury. It is being devel. in 3 sectors radiating from the high terrace which is in the centre of the north boundary. Eastern sector: students' halls of residence, and chapel; central sector: library, assembly hall, students' union and playing fields; western sector: circling Coll. Green, arts bldg., agric. lab., phys., chem., zool. and bot. labs. Part of the coll. site is reserved for a med. sch., and the federal govt. has given the coll. 1200 acres in the Mazoe valley for use as a teaching and exper. farm.

LIBRARY. 45,000 vols. and 800 current periodicals, incl. a considerable collection of Central African material.

ADMISSION. Candidates for admission to a first degree course must satisfy min. and direct entry requirements which are equivalent, with minor modifications, to those of the Univ. of London (see Appendix II); they must also pass a coll. test of proficiency in English.

\* For a note on these 'special relationship' arrangements, see p. 973



**FIRST DEGREES** (special relation with Univ. of London).§ Courses are provided for the following degrees of the Univ. of London. 3 yrs.—BA (gen.), BSc (gen.), BSc(Agric).

**DIPLOMA.** Coll. dipl. in appl. econ., 3 yrs. pt.-time.

**CERTIFICATE** (special relation with Univ. of London).§ Postgrad. cert. in educn., 1 yr.; open to grads. of any approved univ.

**RESEARCH.** The coll. is placing emphasis on the provision of res. facilities for members of its staff, for guest res. workers and for postgrad. students. Res. programmes are being devel. in the various depts. of the coll. The region is exceptionally rich in opportunities for res. in hist. and archæol.; in the pure and appl. scis.; and in the soc. scis., incl. educn. Students wishing to undertake res. at the coll. should write in the first place to the registrar, giving details of their academic qualifs., res. interests and experience.

**STUDY LEAVE.** Financial assistance is given to staff every 3 yrs. to assist them to visit other academic instns. in Africa or overseas, and every 6 yrs. addtnl. study leave is granted.

**ENTRANCE AWARDS.** Open entrance awards incl. 3 Fairbridge scholps. of £300 p.a. awarded annually to boys educated in the U.K. Others are the Bata, £200; Booker\*, £200; Haddon, £100; Horace Hickling, £200; Milward\*, £300; Nyasaland Agric. Prod. & Mktg. Bd.\*, £250; Patel, £200; Debora Tarica\*, £100; Three Feathers\*, £150. (\*=open only to candidates

resident in the Fed. of R. & N.) Govt. scholps. and grants are also available.

**POSTGRADUATE AWARDS.** Lever res. fellowship\*\*, £650 p.a.; Milne Munro fellowship\*\*, £500 p.a.; Cooper scholp.\*\*, £200 p.a. (\*\* open to grads. of any approved univ.); and certain of those given above. The federal govt. has establ. up to 12 awards a year, of £240 p.a. plus travelling expenses, to enable grads. of U.K. univs. to take the educn. course at the coll. on condition that they teach in the federation for 3 yrs.

**FEES.** Tuition fees: BA (gen.), £50 p.a.; BSc (gen.) and BSc(Agric), £60 p.a.; postgrad. cert. in educn., £50 p.a.; other postgrad. students, £25 p.a. (full-time), (pt.-time, £10 p.a.); dipl. in appl. econ., £30 p.a. (pt.-time).

Univ. of London matric. and exam. fees: matric. and exam. registration fee, £3 : 3s.; exam. fee, BA (gen.)—£18, BSc (gen.) (pt. I)—£8, (pt. II)—£12, BSc(Agric) (pt. I)—£8, (pt. II)—£4, (pt. III)—£9. Postgrad. cert. in educn.—£12. Dipl. in appl. econ.—£3 : 3s. (pt. I), £3 : 3s. (final). Students' union, £2 : 2s. p.a.

**ACADEMIC YEAR.** March to Dec.; three terms 1961: March 6–May 6; May 29–Aug. 12; Sept. 11–Nov. 18.

**RESIDENCE.** The coll. is mainly residential. Halls of residence have been built on the coll. site which, in addn. to common rooms, dining-hall, etc., provide each student with a separate furnished study-bedroom. Fees for residence and bd.: £115 : 10s. per yr. of 3 terms.

**PUBLICATION.** *Prospectus* (free on applicn. to registrar).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Ford Foundation, \$215,000 for fac. development in the soc. scis.; Dulverton Trust, £10,000 towards establishment of inst. of adult educn.

(Total value of all benefactions received: £120,000).

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: extensions to Carr-Saunders hall of residence for men; library; agric. block. *Approaching completion*: sports pavilion; addtnl. staff housing accomm.

**RESIGNATIONS.** Dr. A. Harrison (bot.), apptd. res. fellow, Harv.; Dr. D. E. Moorhouse (zool.), apptd. to post in W.H.O.; Dr. S. C. Seagriff (bot.), apptd. sr. lect., Rhodes.

### Statistics

**STUDENT NUMBERS, 1960**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	135	21
Women . . .	73	3
<b>Total . . .</b>	<b>208</b>	<b>24</b>

**Distribution by Faculties.** *Agric.*, 9; *arts*, 153 (incl. 33 educn. and 19 pt.-time accty. and other); *sci.*, 70 (incl. 5 pt.-time). Total: 232.

*Included in the figures above are:—*

Postgraduate students, 33 (educn.).

New admissions, 106.

Students from other countries, 27. (Countries from which largest numbers came: U.K., 19; S. Africa, 2; Tanganyika, 2).

Of the 208 full-time students, 153 are European, 49 African and 6 of other groups.

**DEGREES AWARDED** (sp. relationship with Univ. of London) (1959). *Arts*: BA (gen.), 17. *Sci.*: BSc (gen.), 6. (First final exams. BSc(Agric) in 1960).

**CERTIFICATES AWARDED** (1959). *Educn.*, 23.

# SIERRA LEONE

Fourah Bay College  
The University College of Sierra Leone (p. 710)

# FOURAH BAY COLLEGE THE UNIVERSITY COLLEGE OF SIERRA LEONE\*

Founded 1960

*Postal Address : Freetown, Sierra Leone, West Africa*

*Cables and Telegrams : Fourahbay*

*Telephone : Freetown 3400*

VISITOR—H.M. THE QUEEN

PRESIDENT—The Most Rev. and Rt. Hon. Dr. A. M. RAMSEY, ARCHBISHOP OF YORK

PRINCIPAL—D. S. H. W. NICOL, MA MD PhD *Camb.*

VICE-PRINCIPAL—Rev. S. B. CAULKER, MA *Chic.*, BD *United*

REGISTRAR—F. O. HOOLEY, BA *Birm.*

BURSAR—H. G. HALL

LIBRARIAN—R. S. BURKETT, MA *Camb.*, DipL *Lond.*

## TEACHING STAFF

Accounting		Education	
Hall, S., MA <i>Manc.</i>	Lectr.	Hockey, S. I., MA <i>Brist.</i>	Sr. Lectr.
		Ferron, O. M., BA <i>Madr.</i> , MA <i>Lond.</i>	Lectr.
			Lectr.
Botany		Engineering	
Taylor, F. J., MSc <i>Sheff.</i> , PhD <i>Lond.</i>	Sr. Lectr.		
Gledhill, D., BSc <i>Durh.</i>	Lectr.		
Matturi, S. T., BSc <i>Lond. &amp; Hull</i>	Lectr.	Pescod, M. B., BSc <i>Durh.</i> , SM <i>Mass.</i>	Sr. Lectr.
			Lectr.
			Lectr.
Chemistry		English	
Downing, E., BSc PhD <i>Lond.</i>	Sr. Lectr.		
Cole, I. S. A., MA <i>Camb.</i>	Lectr.	.....	Prof.
Taylor-Smith, R. E. K., BSc PhD <i>Lond.</i>	Lectr.	Copley, J., MA <i>Leeds</i>	Sr. Lectr.
.....	Lectr.	Jones, E. D., BA <i>Durh.</i> , MA <i>Oxon.</i>	Lectr.
		Edwards, P. G., BA <i>Durh.</i> , MA <i>Camb.</i>	Lectr.
		Carroll, D. R., BA <i>Durh.</i> , MA <i>Lond.</i>	Lectr.
Classics		Geography	
Dolphin, Lindis M., MA <i>Oxon.</i>	Sr. Lectr.		
Levitt, N., BA <i>Durh.</i>	Lectr.	Dalton, K. G., MA <i>Leeds</i>	Sr. Lectr.
	Lectr.	Mitchell, P. K., BA <i>Durh.</i>	Lectr.
	Lectr.		Lectr.
Economics		History	
.....			
Cox-George, N. A. W., MSc(Econ)	Prof.	Porter, A. T., BA <i>Durh.</i> , MA <i>Camb.</i> ,	
PhD <i>Lond.</i>	Sr. Lectr.	PhD <i>Boston</i>	Sr. Lectr.
Gyasi-Twum, K., BCom BA(Econ) <i>Durh.</i>	Lectr.	Kup, A. P., MA PhD <i>St.And.</i>	Lectr.
Van der Laan, H., EconDrs <i>E.H.Rotterdam</i> ,			Lectr.
MSc <i>Wis.</i>	Lectr.		
.....	Lectr.	Law	
		Tuboku-Metzger, F. C., BA LLB <i>Durh.</i>	Lectr.

\* Associate Member of the Association of Universities of the British Commonwealth

**Mathematics**

Zulauf, A., DrRerNat Mainz, PhD Lond. Prof.  
 Smith, E. M. R., BSc Lond. Sr. Lectr.  
 ..... Sr. Lectr.  
 Amin, Y. A., BSc PhD Leeds Lectr.  
 Williams, E. J. A., BSc PhD Belf. Lectr.

**Modern Languages**

Gransden, J. H., MA Camb. Lectr.  
 Kirkman, Eunice, MA Leeds Lectr.  
 Lectr.

**Philosophy**

Caulker, Rev. S. B., MA Chic., BD United Sr. Lectr.  
 Ferguson, Rev. J. P., MA Glas., BA Oxon. Lectr.

**Physics**

Dunstan, E. G., BSc Lond., BEd Edin. Sr. Lectr.  
 Awunor-Renner, E. R. T., BSc Hull, MSc Lond. Lectr.

Rivers, D. G., BSc Lond.

Lectr.  
 Lectr.

**Theology**

Sawyers, Rev. H. A. E., MBE, MA Sr. Lectr.  
 MED Durh.  
 Turner, Rev. H. W., MA N.Z., BD M.C.D. Lectr.  
 Walls, A. F., MA BLitt Oxon. Lectr.

**Zoology**

Phipps, J., MSc Lond. Sr. Lectr.  
 White, E., BSc PhD Durh. Lectr.  
 Smith, L., BSc Durh. Lectr.

**EXTRA-MURAL STUDIES**

Proudfoot, L., MA Manc. Dir.  
 Cole, C. R. A., BA Durh. Tutor  
 Tutor  
 Tutor

**ADMINISTRATIVE AND OTHER STAFF**

Med. Officer : ..... Chaplain : Rev.  
 P. E. S. Thompson, BA DipTheol Durh. Asst.  
 Registrar : G. K. W. Arkieson, DFC, MA LLB  
 Edn. Asst. Bursar : G. A. P. Hamilton. Ac-  
 countant : L. Whitehead. Asst. Librarians :

Mrs. O. S. Caulker, MA Chic., MA(LibSc) ;  
 ..... Wardens of Halls : Miss L. M. Dolphin,  
 MA Oxon. ; E. D. Jones, BA Durh., MA Oxon. ;  
 I. S. A. Cole, MA Camb. ; Rev. J. P. Ferguson,  
 MA Glas., BA Oxon.

**GENERAL INFORMATION**

The coll. was founded by the Church Mission-  
 ary Soc. in 1827. In 1876 it became affiliated to  
 the Univ. of Durham. The coll. is an independent  
 instn., governed by a council, incorporated under  
 royal charter granted by H.M. the Queen on Jan.  
 11, 1960.

CONSTITUTION follows closely the pattern of the  
 English civic univs., with a council consisting of  
 lay and academic members as the governing body,  
 and a senate responsible for all academic matters.

FINANCE. Financial yr. changed in 1959 to  
 commence from Sept. 1 ; income for period of 8  
 months ending Aug. 31, 1959, was derived as  
 follows : Sierra Leone govt. grant, 76 per cent. ;  
 tuition & residence fees, 20 per cent. ; misc.,  
 4 per cent.

Colonial Devel. and Welfare grants together  
 with the Sierra Leone govt. contribution totalling  
 £935,000 have been made for stages I and II of  
 the coll. devel. programme which covers halls of  
 residence, sci. labs., dining halls and kitchen and  
 staff houses ; also substantial donations for  
 specific purposes have been received from private  
 firms and foundations.

FACULTIES AND DEANS. Appl. sci., E. M. R.  
 Smith (maths.) ; arts, A. T. Porter (hist.) ; econ.

stud., N. A. W. Cox-George ; educn., S. L.  
 Hockey ; sci., E. G. Dunstan (phys.) ; theol.,  
 Rev. H. A. E. Sawyers.

LOCATION. The coll. is situated on Mt. Aureol  
 overlooking Freetown. Many of the bldgs. are  
 still of a temp. nature though reblgd. is well  
 advanced. Sci. labs., women's hall, dining halls,  
 modern kitchens and 36 staff houses are already  
 completed. The next phase comprises men's  
 halls of residence, and at a later date the library,  
 arts and econ. teaching block, admin. offices,  
 chapel and other bldgs. Houses for extra-mural  
 tutors are being provided in provincial centres.

LIBRARY. 28,000 vols. Sp. Sierra Leone col-  
 lection. 850 serials received.

BOTANICAL GARDEN in process of development.

FIRST DEGREES (of Univ. of Durham). The  
 coll. provides courses for the BA (gen.), BA(Econ)  
 and BSc (gen.) of the Univ. of Durham. Hon.  
 schs. in econ., Engl. and maths. are being  
 instituted.

CERTIFICATES (of Univ. of Durham). The coll.  
 provides a 3-yr. course leading to the cert. in  
 biblical studies of the Univ. of Durham.

DIPLOMAS. The coll. provides courses leading

to the dipls. in theol. (2 yrs.), educn. (1 yr.) and pub. admin. (2 yrs.) of the Univ. of Durham. The coll. awards a dipl. in engin. (3 yrs.).

**ACADEMIC YEAR.** Three terms of about 10 wks. each. Michaelmas—Oct. to Dec.; Epiphany—Jan. to March; Easter—April to June.

**EXTRA-MURAL WORK.** Sessional classes, short residential courses, week-end conferences, occasional sp. lectures and annual residential sch.

**STUDENT RESIDENCES.** Students are in general required to reside full-time in coll.

**STAFF ACCOMMODATION** is provided at reason-

able rent (incl. charges for water supply and electr. appliances).

Residence, £80 per session. Tuition, £35-£55 per session.

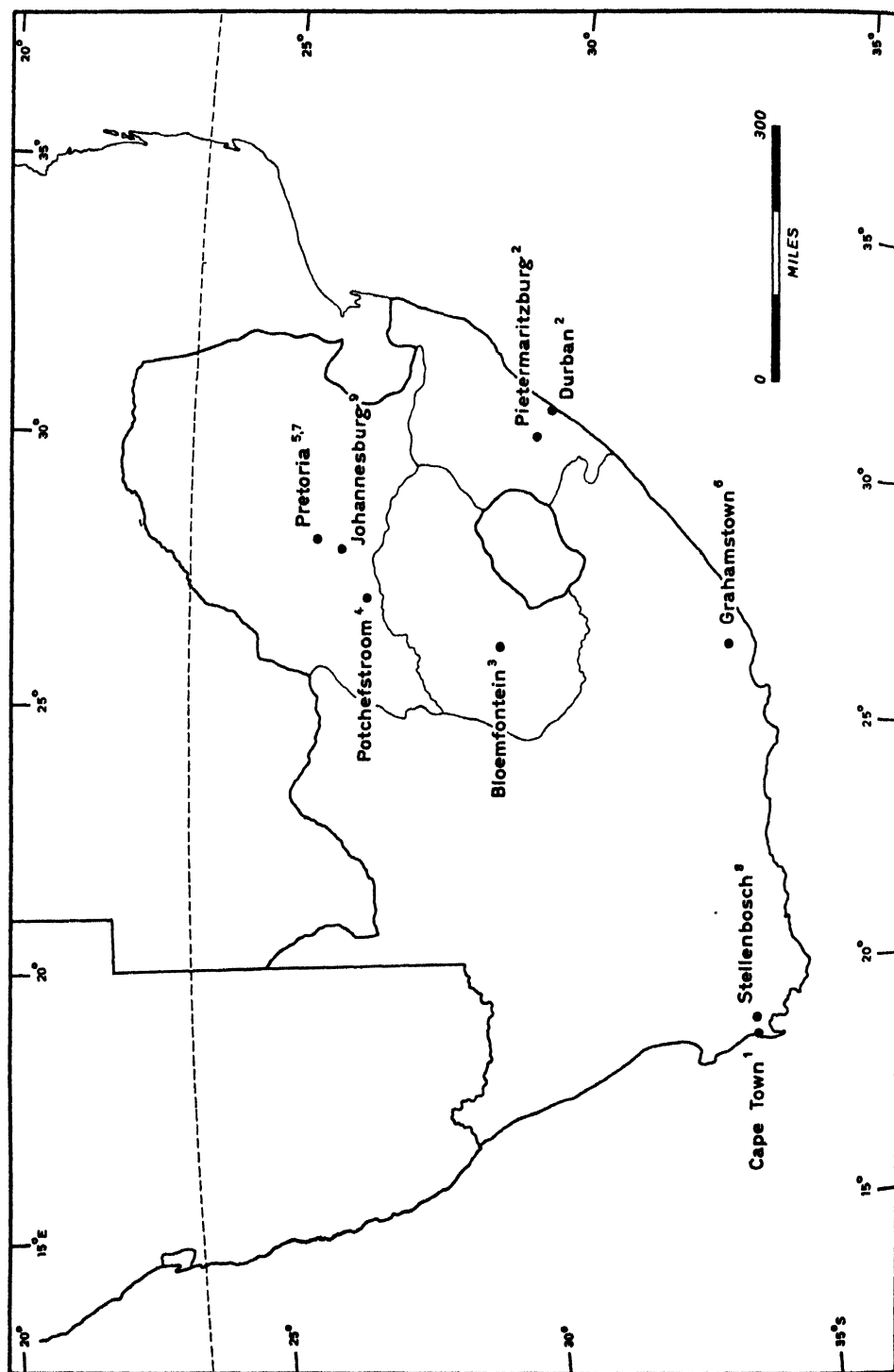
**STUDY LEAVE.** Normal entitlement 1 term every 7 yrs., after 5 yrs.' service.

**STUDENTS.** At the beginning of the session 1959-60 the student population was made up as follows: *appl. sci.*, 15; *arts*, 111; *econ. stud.*, 98; *educn.*, 13; *sci.*, 88; *theol.*, 5. Total: 330.

Included in these figures are 147 students from Nigeria and 2 from Ghana.

# SOUTH AFRICA

- 1 University of Cape Town (p. 723)
- 2 University of Natal (p. 731)
- 3 University of the Orange Free State (p. 740)
- 4 Potchefstroom University for Christian  
Higher Education (p. 744)
- 5 University of Pretoria (p. 749)
- 6 Rhodes University (p. 760)
- 7 University of South Africa (p. 765)
- 8 University of Stellenbosch (p. 769)
- 9 University of the Witwatersrand, Johannesburg (p. 777)  
University College of Fort Hare (p. 786)



*The places named are seats of university institutions as numbered overleaf*

# UNIVERSITIES OF THE UNION OF SOUTH AFRICA

[Contributed by Dr. T. Alty, Vice-Chancellor and Principal of Rhodes University]

**HISTORY.** Higher education in South Africa is a comparatively recent growth. It began during the nineteenth century with the formation of certain schools which, for the first time, made post-elementary education available. With the passage of time these institutions undertook and developed more advanced work until, finally, their work of university grade was separated from the school work proper and the first steps in the development of a university system had been accomplished.

The earliest such school was the South African College founded in Cape Town in 1829. From this has developed the University of Cape Town. There followed in 1855 St. Andrew's College, Grahamstown, from the post-matriculation classes of which Rhodes University College, and later Rhodes University, developed; and Grey College in Bloemfontein, which has given rise to the University of the Orange Free State. In 1866 was founded the Stellenbosch Gymnasium, from which arose the Victoria College of Stellenbosch, the forerunner of the University of Stellenbosch.

In 1858 a board of examiners in literature and science was established by the Cape legislature. The advanced students of the schools soon began to write the examinations of the board, which quickly took on a more university character. The competition between the schools in these external examinations proved stimulating, and their development was such that in 1873 it was found possible to institute South Africa's first university, the University of the Cape of Good Hope. This was a purely examining body and the students of the various developing colleges took its examinations instead of those of the earlier board, which in fact ceased to function in 1873.

With the development of the interior of the country, new institutions arose. Thus a state gymnasium was founded in Pretoria in 1893 and prepared students for the examinations of the University of the Cape of Good Hope, but its career came to an end with the outbreak of the Anglo-Boer war. Similarly the South African School of Mines, founded at Kimberley in 1896, was transferred to Johannesburg in 1904 as the Transvaal Technical Institute and later became successively the Transvaal University College, the South African School of Mines and Technology, the University College, Johannesburg, and ultimately the University of the Witwatersrand, Johannesburg. A Pretoria branch of the Transvaal University College was established in

1908 and, retaining this name when it was relinquished by the Johannesburg institution, developed into the University of Pretoria. Natal University College, predecessor of the University of Natal, was founded at Pietermaritzburg in 1909.

The next development came in 1916, by which time it was considered that the South African College, Cape Town, and Victoria College, Stellenbosch, had reached a stage of development justifying their recognition as independent teaching universities. Consequently three acts of the Union parliament were passed, one setting up the University of Cape Town, another the University of Stellenbosch and a third replacing the original University of the Cape of Good Hope by a new federal examining University of South Africa with six constituent colleges, viz. the South African School of Mines and Technology, Rhodes University College, Transvaal University College, Natal University College, Grey University College, Bloemfontein, and Huguenot University College.

In 1921 the teaching institution at Potchefstroom, originating in 1869, was admitted as a constituent college and in 1950 the Huguenot University College ceased to function.

In 1916 the South African Native College, developing to a considerable extent out of the Lovedale Missionary Institution, was set up. Its students, mainly non-white, wrote the examinations of the University of South Africa as external students.

The University of South Africa was purely an examining body. It was governed by a council, and by a senate composed of the principals and the heads of departments of the constituent colleges.

With the steady and rapid expansion of higher education since the end of the first world war, one after another of the constituent colleges of the University of South Africa became incorporated by act of parliament as independent universities. These changes were, in order of occurrence: 1923—the University College, Johannesburg, became the University of the Witwatersrand; 1930—the Transvaal University College became the University of Pretoria; 1949—Natal University College became the University of Natal; 1950—the University College of the Orange Free State became the University of the Orange Free State; 1951—Rhodes University College became Rhodes University, and Potchefstroom University College became Potchefstroom University for Christian Higher Education.



In terms of the Rhodes University Act (1949), the South African Native College became affiliated to Rhodes University, and shortly thereafter its name was changed to the 'University College of Fort Hare'.

An activity of the University of South Africa not yet mentioned was the examination of external students who prepared themselves for its examinations either privately or with the aid of correspondence or other establishments. In 1946 the university constituted within itself a 'division of external studies' to provide instruction, by correspondence or otherwise, for such external students of the university as might wish to take advantage of these facilities. In 1951, all the constituent colleges of the university having become independent and the federal nature of the university itself having consequently disappeared, an act was passed by the Union parliament reconstituting the university, under the same name, as a university for external students. The staff of the division, renamed the 'division of studies', continues to provide instruction as before to such external students of the university as elect to avail themselves of it. Although this instruction is at present largely limited to non-laboratory subjects, the newly constituted university retains all the powers of its predecessor to examine candidates and to confer such degrees in such faculties as it may deem expedient. At the same time the university organizes the examination of external students not entered in the division of studies for tuition, and conducts certain central examining activities such as the music examinations, etc. The registrar of the university is secretary of the Joint Matriculation Board and his office conducts the business of the board.

It will be clear from the above summary of development that there are now eight universities in the Union providing instruction mainly through the medium of lectures, seminars, etc., and the University of South Africa providing instruction mainly by correspondence. At each of the former group of universities a number (varying from one institution to another) of students are in residence, and for convenience these eight universities will be referred to in this *Introduction* as the 'residential universities'. Of these, four (Stellenbosch, Pretoria, Orange Free State and Potchefstroom) give instruction largely or wholly in Afrikaans, while the other four (Cape Town, Witwatersrand, Natal and Rhodes) do so in English.

Practically all the post-matriculation education in the Union is provided by the universities.

**STRUCTURE AND GOVERNMENT OF UNIVERSITIES.** Each of the universities in the Union is constituted by act of parliament. They are unitary institutions similar in general organization to the modern universities of the United Kingdom, with two modifications, viz. that the University of Natal has developed in the two cities of Pietermaritzburg and Durban, 65 miles apart, and the University College of Fort Hare, an affiliated

college of Rhodes University, is situated near Alice, 60 miles from the university itself, and is financed separately from the university.

Each university has a chancellor, a vice-chancellor and a principal or rector who is the chief administrative officer of the university. In some cases he is *ex-officio* vice-chancellor; in the others he is eligible for appointment as vice-chancellor.

The governing body of each university is the university council consisting of members appointed by the governor-general, and representatives of the benefactors of the university, its graduates and senate, and certain public bodies (e.g. city councils). The council administers all the property of the university and has general control of all its affairs, purposes and functions.

The senate of the university normally consists of the principal or rector, who is chairman, the professors and heads of academic departments, the librarian, representatives of council and of the lecturing staff, etc. The senate is responsible for the instruction, examinations and discipline of classes in the university.

The convocation of the university consists of the teaching staff of the university together with all its graduates. Convocation may discuss any matter relating to the university and make representations to senate or council.

The council and senate of the University of South Africa have a somewhat different composition from those of the residential universities. Its council consists of nominees of the governor-general, the principals of the residential universities and representatives of the senate. Its senate consists of the principal and representatives of the council, the professors and lecturers of the division of studies together with representatives of the senates of the residential universities.

**RELATIONSHIP WITH THE GOVERNMENT.** The universities are to a great extent autonomous institutions but are subject to the control of the Union minister of education, arts and science in certain matters. Thus all *new* faculties, departments, professorships or lectureships (but not the personnel appointed to these offices) require his approval. In other words, *posts* require approval, appointees do not. This control of departments is linked up with the method of government subvention of universities which follows the recommendations of a government commission on university finances and salaries in 1951 (the Holloway commission). This commission recommended that all universities be subsidized in accordance with a fixed formula, the subsidy depending partly on the number of basic departments in the university and partly on the number of students in it. The government accepted this proposal, and each university can therefore calculate the subvention due to it in any year. There is a University Advisory Committee appointed by the minister to advise him on general questions of policy, the institution of new faculties, etc., and such other matters relating to the universities as

the minister may refer to it. The committee is small and includes a representative of the Committee of University Principals.

**FINANCE.** The total income of the eight residential universities for 1958 was £4,688,476. This was derived from student fees, government subsidy and other sources including interest on investments, rent, annual grants from public bodies, etc., in the following proportions: student fees, 32.4 per cent.; government subsidy 62.7 per cent.; other sources, 4.9 per cent. The corresponding figures for the University of South Africa and the University College of Fort Hare for 1958 were (total income in each case): University of South Africa £364,408; University College of Fort Hare £118,600. This income is derived from the three main sources listed above in the following proportions: *University of South Africa*—fees 51.9 per cent., government subsidy 47.1 per cent., other sources 1 per cent.; *University College of Fort Hare*—fees 14.4 per cent., government subsidy 75.3 per cent., other sources 10.3 per cent.

**PRE-UNIVERSITY EDUCATION AND ADMISSION** (see also Appendix II). Admission to the South African universities is controlled by a Joint Matriculation Board consisting of representatives of each of the universities, the Union education department and provincial departments of education and of the schools. No person may be admitted to a degree course unless he is in possession of a matriculation certificate issued by this board or of its certificate that he has passed an equivalent examination and satisfied the board's conditions of exemption. A university may prescribe in addition, as a prerequisite for admission to any particular course, the attaining of a specified standard in specified subjects at the matriculation or equivalent examination; and, if it limits the number of admissions to any course, it may select the entrants from among those who are qualified for admission.

In general, school education throughout the Union stops at the matriculation level. Except in certain private schools, there is little post-matriculation work provided. Consequently students enter the universities immediately after matriculation and take three years to complete the pass degree course or four years for an honours course.

No student may be excluded from any university on grounds of his religious belief but, with this exception, a university council has the right to refuse admission to any student, should it consider it to be in the interests of the university to do so. This right has, in practice, been exercised mainly in deciding the question of the admission of non-white students. The decision reached has varied from one institution to another. Thus the universities of Cape Town and the Witwatersrand accept non-white students who attend lectures and laboratories along with the white students; the University of Natal accepts such students and provides separate

classes and laboratories for their use; Rhodes University accepts them at its affiliated college of Fort Hare, with provision for their acceptance at the university itself for advanced work; the universities of Stellenbosch, Pretoria, Orange Free State and Potchefstroom do not admit non-white students.

Admission as a candidate for the degree of master or doctor is, with some exceptions, limited to persons holding the honours degree of bachelor. A person holding the appropriate degree of another university is normally accepted as a candidate for a higher degree.

**STRUCTURE OF DEGREE COURSES.** As already stated, practically all students enter the universities without post-matriculation training and, in faculties such as arts and science, complete a pass degree in three years. The honours degree usually involves one further year of full-time study after completion of the pass degree. The minimum period of full-time study required for the bachelor's degree in other faculties is: divinity, music, commerce, economics, social science or military science, three years; engineering, surveying, agriculture, fine arts, architecture, dental surgery, four years; veterinary science, five years; medicine and surgery, six years. In education and law, the bachelor's degree is a postgraduate qualification requiring study for two years and three years respectively after a first degree in another faculty. The master's degree requires a minimum of one year's advanced study or research after the honours degree. The PhD is a research degree usually requiring a minimum of two years' research.

The Committee of University Principals (see below) may make joint statutes which, after approval by the minister of education, become binding on all the universities. These joint statutes concern matters of common interest to the universities and include provision for the movement of students from one university to another and for the minimum period of attendance required for degrees in different faculties of the universities. It is laid down that a university shall accept, as part of the attendance of a student working towards a degree of bachelor, periods of attendance as a registered matriculated student at any of the other residential universities, provided that his total period of attendance at the different universities is not less than the minimum specified by the joint statutes for admission to the degree, and provided further that he has attended at the university conferring the degree at least one-half of the courses prescribed for that degree.

**STAFF.** The academic staff includes professors, senior lecturers, lecturers and junior lecturers. The usual teaching method is by lectures augmented by seminars and tutorials. Members of staff are expected to engage in research, and, although the teaching load is not always light, time is normally available for research. The practice regarding sabbatical leave varies slightly from one institution to another, but the usual

pattern is that after completing five or six years' service, a member of staff is granted six months' leave. In some institutions study leave is also available.

The salary scales approved by the minister of education are as follows—professor: £1950 × £60–£2250; senior lecturer: £1530 × £60–£1950; lecturer: £1050 × £60–£1530. In practice, most of the universities pay salaries in excess of these standard scales. For non-medical professors the salaries vary up to about £2700, for senior lecturers up to about £2100 and for lecturers up to about £1700 p.a.

The superannuation scheme is administered by the Union commissioner of pensions. Contributions from the members of staff, the university and the government are paid into a provident fund and the sum so paid in, with interest, becomes the property of the member of staff on reaching the age of retirement. Persons coming from abroad and having insurance policies covering their superannuation benefits in another fund can, within certain limits, have these continued in the South African superannuation scheme.

The practice in filling vacancies varies somewhat from one institution to another. Cape Town, Stellenbosch, the Witwatersrand, Natal and Rhodes normally advertise at home and abroad. Pretoria, Orange Free State and Potchefstroom rely more on the method of private enquiry and internal advertisement. There is no restriction as to race or nationality in making appointments and the staffs of the universities include representatives of most of the countries of western Europe as well as South Africans who have received their first degree in the Union and then advanced degrees in Europe or America or in the Union.

**STUDENTS.** There are 27,381 students in the residential universities and 8128 external students working for the examinations of the University of South Africa. From the requirement of the joint statutes that no residential university shall grant a bachelor's degree to any student who has not completed three years' attendance, it follows that none of them can accept external students, and therefore that all such must register with the University of South Africa, the institution specially set up to deal with external students.

Short courses during the summer vacation, refresher courses, etc., are given by several universities. These are in the main directed to the general public. None of them counts for credit towards a degree. Evening courses are given at several universities for students employed during the day.

The proportion of students living in halls of residence varies greatly from one institution to another. In the larger centres the proportion is naturally smallest, as many students live at home; at the smaller centres the proportion of students in residence is much higher. The latest figures available show a variation from 7.8 per cent. in residence at Pretoria to 77.3 per cent. in residence

at Rhodes. Over the Union's residential universities taken together the distribution of students is as follows: in halls of residence, 35.3 per cent.; in approved lodgings, 21.7 per cent.; other (mainly at home), 43 per cent.

In each university, student activities are centred on the students' representative council, which approves and makes grants to the various student societies. The athletic union usually operates almost independently of the students' representative council and controls all sporting activities. Some universities operate a student health service and some a student advisory service, but practice varies from one institution to another.

Details of fees will be found in the sections on the individual universities. As they vary somewhat from university to university, average values might be misleading. In the same way the total cost of residence and study for a calendar year for an overseas student would vary considerably from centre to centre and from faculty to faculty. Including maintenance costs during the vacation, this total cost would be between £350 and £500.

Scholarships and bursaries are available from various sources—the Union government, local municipalities, the university's own funds and private donors. Most undergraduate scholarships are for relatively small amounts, e.g. £30, £40, £50 p.a. Until 1956 the Union government made no contribution to undergraduate scholarships but during that year the sum of £2500 was made available to the universities for this purpose. During 1959 this sum has been increased to £30,000 for award as bursaries of up to £100 each.

Many students undertake vacation employment, but most such arrangements are made privately and no figures are available as to the extent of the practice.

Immediately after the close of the second world war there was a large increase in student enrolment as the ex-service men returned to civil life. Thereafter, as these men completed their courses and left the universities, student numbers tended to decrease and then for a few years to remain almost stationary. Since 1956 there has been a sharp increase in numbers which is expected to continue over the next few years. The degree of expansion to be expected has been assessed as about 40 per cent.

**ACADEMIC YEAR.** The academic year extends from about the end of February or early March to the end of November or mid-December. There is a winter vacation of four to five weeks in July and a short (7–10 days) break about Easter and in September.

**COMMITTEE OF UNIVERSITY PRINCIPALS.** The Committee of University Principals was constituted by the Universities Act no. 61 of 1955 and empowered to take over the functions hitherto performed by the Vice-Chancellors' Committee. The committee consists of the principals of universities and, in an advisory capacity, such other persons as may be appointed by university councils. In the exercise of powers conferred by

the act of 1955 the committee may make recommendations to the minister of education, arts and science regarding any matter that it considers to be of common interest to the universities or which may be referred to it by the minister or the secretary for education, arts and science. It may also make joint statutes and regulations relating to the Joint Matriculation Board, the Joint Committee for Professional Examinations, the administration of the joint scholarship fund of the universities, the admission of registered students of any one of the universities to any of the others, and a minimum period of attendance and minimum fees for the degree of bachelor. The committee has power to formulate regulations dealing with any matters of common interest, such as the rotation between the universities of postgraduate scholarships administered by the committee and the conditions of award, etc.; the conditions and award of essay prizes, etc. The committee also acts as the advisory body for British Council scholarships and Imperial Relations Trust fellowships. The chairman of the committee for 1959-61 is Dr. H. B. Thom. The address of the secretary, Dr. A. V. H. Carter, is P. O. Box 594, Cape Town.

**STUDENT ORGANIZATIONS.** Since 1933 there has been no single national union of students which is supported by the students of all institutions. The Afrikaanse Studentebond (A.S.B.) was founded in 1916 and the National Union of South African Students (NUSAS) in 1924. At its inception NUSAS included all South African university institutions, including those supporting the A.S.B., but, in the period 1933-36, the Afrikaans-medium institutions withdrew from NUSAS and concentrated their support on the

A.S.B. Thus for the past quarter-century there have been in existence these two organizations, A.S.B. enjoying the support of the Afrikaans institutions and NUSAS that of those employing the English medium.

The addresses of these organizations are—the National Union of South African Students, 4th Floor, 148 St. George's Street, Cape Town, and Die Afrikaanse Studentebond, c/o Secretary, Students' Representative Council, University of Stellenbosch, Stellenbosch.

**PUBLICATIONS.** See Appendix V and the 'Publications' section in each university entry below.

**CURRENT DEVELOPMENT.** During the past year the Extension of University Education Act and the Fort Hare Transfer Act have come into operation. The former forbids the entry of non-white students to the 'white' universities, except with special ministerial approval, and makes provision for the establishment of new university colleges for the non-whites; the latter act disaffiliates the University College of Fort Hare from Rhodes University and sets it up as a university college preparing students for the degrees of the University of South Africa—on the same basis as that planned for the other new colleges. This group of colleges for non-whites now comprises: the University College of Fort Hare (Xhosa students), the University College of the North (Sotho students), the University College of Zululand (Zulu students) and the University College of the Western Cape (Cape Coloured students). The three new colleges commenced operations on January 1, 1960, and, along with Fort Hare, are now giving instruction and planning considerable development for the future.

## DIRECTORY TO SUBJECTS OF STUDY

The following subjects may be studied at all the residential universities in South Africa: accounting, Afrikaans and Nederlands, Bantu languages, botany, chemistry, commerce, economics, English, French, geography, geology, German, Greek, history, Latin, law, mathematics (pure and applied), native administration, philosophy, physics, statistics, psychology, social anthropology, sociology and social work, zoology.

The table overleaf indicates by the symbols ✓ or ✓ at which of these universities instruction in certain other subjects is provided, the symbol ✓ being used to indicate *major* courses, i.e. those studied for two or three years for a first degree.

In the University of South Africa instructional staff dealing with the external students of the university's division of studies (*i.e.* students receiving instruction as well as examination from

the university) cover the following fields: accounting (and related subjects), advertising, Afrikaans and Nederlands, anthropology, applied mathematics, archaeology, banking, Bantu languages, biblical studies, bibliography, business economics, classics, criminology, divinity, economics, education, English, French, geography, German, Hebrew, history, Jewish studies, law, librarianship, market research, mathematics, music, native administration, philosophy, political science, psychology, public administration, social work, sociology, statistics and systematic theology.

At the University College of Fort Hare instruction in the following subjects is available: African studies, anthropology, administration, Bantu languages, classics, divinity, education\*, economics, English\*, geography, history\*, law, Nederlands

[continued on p. 721]

# SOUTH AFRICAN DIRECTORY TO SUBJECTS OF

<i>For an explanation of the symbols used, see p. 719</i>	Cape Town	Natal	Orange Free State	Potchefstroom	Pretoria	Rhodes	Stellenbosch	Witwatersrand
Agriculture		✓	✓		✓		✓	
Anatomy					✓		✓	✓
Archæology	✓				✓			
Architecture	✓	✓	✓		✓			✓
Astronomy	✓	✓	✓			✓		✓
Bacteriology							✓	✓
Biblical Studies		✓		✓		✓	✓	✓
Biology		✓	✓		✓		✓	
Classical Culture	✓	✓	✓	✓		✓	✓	✓
Criminology			✓		✓		✓	
Dietetics				✓	✓		✓	
Dentistry					✓			✓
Divinity		✓		✓	✓	✓	✓	
Drama (Natal : Speech & Drama)	✓	✓					✓	
Economic Geography	✓	✓				✓	✓	✓
Economic History	✓	✓		✓	✓	✓	✓	✓
Education	✓	✓	✓	✓	✓	✓	✓	
Engineering :								
Agricultural		✓			✓		✓	
Chemical	✓	✓			✓			✓
Civil	✓	✓			✓		✓	✓
Electrical	✓	✓			✓		✓	✓
Land Surveying	✓	✓			✓	✓	✓	✓
Mechanical	✓	✓			✓		✓	✓
Metallurgy					✓		✓	✓
Mining					✓			✓
Entomology					✓	✓	✓	
Fine Art	✓	✓			✓	✓		✓
Forestry							✓	
Hebrew	✓	✓	✓	✓	✓	✓	✓	✓
Hellenistic Greek						✓		
Histology and Embryology							✓	✓
History of Art		✓		✓	✓	✓	✓	✓
History and Appreciation of Music			✓	✓	✓	✓	✓	✓

*[continued on next page]*

STUDY (see p. 719)—TABLE OF FIRST DEGREE COURSES

<i>For an explanation of the symbols used, see p. 719</i>	Cape Town	Natal	Orange Free State	Potchefstroom	Pretoria	Rhodes	Stellenbosch	Witwatersrand
History of Netherlands Culture	✓				✓		✓	
History of Science								✓
Household Science				✓	✓		✓	
Hygiene				✓			✓	
Italian								✓
Journalism				✓				
Leather Science						✓		
Librarianship	✓			✓	✓		✓	
Logopedics					✓			✓
Medicine and Surgery	✓	✓			✓		✓	✓
Microbiology	✓				✓		✓	
Military Science							✓	
Music	✓		✓	✓	✓	✓	✓	✓
Nursing					✓			
Pharmacy				✓		✓		
Phonetics							✓	✓
Physical Education			✓	✓	✓	✓	✓	
Physiology	✓			✓	✓	✓	✓	✓
Physiological Chemistry					✓			✓
Politics	✓	✓	✓	✓	✓	✓	✓	✓
Portuguese								✓
Public Finance							✓	✓
Public Administration	✓	✓	✓		✓	✓	✓	✓
Soil Sci./S. & Water Conservn.					✓	✓	✓	
Veterinary Science					✓		✓	
Wool Textiles						✓		

*continued from p. 719]*

and Afrikaans\*, philosophy, politics, psychology\*, botany, chemistry, mathematics\*, physics and applied mathematics, zoology. At each of the three other colleges for non-whites instruction in the subjects asterisked in the previous sentence is available together with the following subjects in the case of the college indicated—University College of the North: anthropology, applied mathematics, Bantu languages, biology, botany,

business economics, chemistry, criminology, economics, geography, physics, social work, sociology, zoology; University College of Zululand: accounting, anthropology, Bantu languages, biology, business economics, economics, social work, sociology; University College of the Western Cape: botany, business economics, chemistry, classics, geography, librarianship, philosophy, physics, social work, zoology.

## STATISTICS

[Source: Report of Department of Education, Arts and Science for 1959]

**TOTAL STUDENT ENROLMENT.** There were 27,381 students (including 7076 women) at the eight residential universities in 1958. Of these, 26,141 were full-time \* and 1240 part-time.† In addition, 438 students were enrolled at the University College of Fort Hare and 8128 external students (including 700 women) at the University of South Africa.

**NEW ADMISSIONS.** The number of students enrolling for the first time in 1958 was as follows :

	Eight Residential Universities	University of South Africa	University College of Fort Hare
Total	8316	1753	143
Men	5621	1594	123
Women	2695	159	20
Matriculated	7672	1008	121
Non-Matriculated	644	745	22

**STUDENTS FROM OTHER COUNTRIES.** Of the total enrolment of 27,381 in the residential universities in 1958, 1341 students had home addresses in countries other than the Union, South West Africa and the High Commissioner's territories; 855 of these 1341 students came from Southern Rhodesia, 217 from Northern Rhodesia and 76 from East Africa. Out of 8128 students enrolled in the University of South Africa, 416 have home addresses outside the territory defined above; of these, 306 came from Southern Rhodesia, 56 from Northern Rhodesia and 11 from East Africa. Out of the 438 students enrolled at the University College of Fort Hare, 24 came from outside the territory referred to; 16 of these came from Southern Rhodesia and 7 from Northern Rhodesia.

**DEGREES AWARDED** by the nine universities in 1958 (bachelor, master and doctor). *Agric., for. & vet. sci.*: 195, 25, 0. *Archit. & quantity surveying*: 78, 0, 0. *Arts (incl. comm., econ. & fine arts)*: 1605, 92, 31. *Dent.*: 53, 0, 0. *Div.*: 49, 0, 3. *Educn.*: 63, 23, 9. *Engin. (incl. land surveying)*: 274, 19, 9. *Law*: 103, 0, 1. *Med. & surg.*: 207, 24, 11. *Music*: 24, 3, 0. *Sci.*: 610, 63, 36.

\* *A full-time student* is defined for the purpose of the *Report* as one who follows a full degree, diploma or certificate course. The term includes students who, on account of an occupation other than a university post, are unable to devote their full time to university study.

† *A part-time student* is defined as one taking courses not with the object of obtaining a degree or diploma. The term includes all 'occasional' students.

# UNIVERSITY OF CAPE TOWN\*

Incorporated 1918; previously established as South African College, 1829

*Postal Address* : Private Bag, Rondebosch, Cape Province, South Africa

*Cables and Telegrams* : University, Rondebosch

*Telephones* : 694351-3

VISITOR—H.E. THE GOVERNOR-GENERAL OF THE UNION OF SOUTH AFRICA

CHANCELLOR—The Hon. Mr. Justice A. VAN DE SANDT CENTLIVRES, BA *Cape*, DCL *Oxon.*, LL.D

PRINCIPAL AND VICE-CHANCELLOR—J. P. DUMINY, MA *Cape & Oxon.*, BSc *Oxon.*

DEPUTY PRINCIPAL—D. P. INSKIP, MA *Glas.*, LèsI. *Nancy*

PRESIDENT OF CONVOCATION—A. H. BROEKSMA, QC, BA *Stell.*, LLB

CHAIRMAN OF COUNCIL—A. F. STEPHEN, BA I.I.B

REGISTRAR—J. G. BENFIELD, BCom *S.A.*

LIBRARIAN—R. F. M. IMMELMAN, BLS *Col.*, MA, FLA

## TEACHING STAFF

[† = Part-Time]

### Accounting and Business Method

Greenwood, H., FSAA Prof.  
Langhout, J., BCom, CA Sr. Lectr.  
20 Lectrs.† and Tutors

### African Studies

Lestrade, G. P., AM *Harv.*, MA, FRSSAf  
(Bantu Langs.) Prof.  
Wilson, Mrs. Monica, MA PhD *Camb.*,  
FRSSAf (Soc. Anthropol.) Prof.  
Simons, H. J., MA *S.A.*, PhD *Lond.*  
(African Govt. & Law) Assoc. Prof.  
Inskip, R. R., BA *Camb.* Sr. Lectr.  
Jordan, A. C., MA *S.A.*, PhD  
(Bantu Langs.) Lectr.  
Kunene, D. P., MA Lectr.  
Carstens, W. P., BA *Rhodes* Lectr.

**Afrikaans**, see Nederlands and Afrikaans

### Anatomy

Wells, L. H., MB ChB DSc *Rand* Prof.  
Singer, R., MB ChB Sr. Lectr.  
van der Horst, Joan H., MB ChB Lectr.  
Maisel, H., MB ChB Lectr.  
Wilson, Paula M., MB ChB Lectr.  
2 Assts.†, 2 Lectrs.†, 2 Tech. Assts., 1 Demr.

### Architecture

White, L. W. T., FRIBA Prof., Dir. of Sch.  
Pryce-Lewis, O., FRIBA  
Assoc. Prof., Asst. Dir. of Sch.  
Butt, J. E. Sr. Studio Master

Sturrock, F. L., FRIBA Sr. Studio Master  
Morris, A. S. Sr. Studio Master  
Bolland, F. S., DipArch DipTP  
Klop, U. H. Sr. Studio Master  
Anderson, W. G. D., BA *Lond.* Studio Master  
Floyd, H. C., BAArch Studio Master  
Emary, J. E., BAArch Studio Master  
te Water, F. K., DipArch Studio Master  
Soltynski, R. M., BArch *Warsaw* Studio Master  
James, W. B. Lectr.  
Baragwanath, R. L., DipQS Lectr.  
3 Assts., 2 Clerical Assts., 1 Demr.

### Astronomy

Stoy, R. H., CBE, MA PhD *Camb.*,  
FRSSAf Hon. Prof.

**Bacteriology**, see Pathol.

**Bantu**, see African Studies

### Botany and Bolus Herbarium

Isaac, W. E., BSc PhD *Wales*, FRSSAf  
Harry Bolus Prof.  
Rycroft, H. B., BSc *Stell.*, MSc *S.A.*, PhD  
Dir. of National Bot. Gdns., Harold  
Pearson Prof.  
Schelpe, E. A., MSc *S.A.*, DPhil *Oxon.* Sr. Lectr.  
Schütte, K. H., PhD *N.U.I.* Lectr.  
Graves, Judith M., MSc Lectr.  
Portsmouth, G. B., BSc *Lond.* Lectr.  
2 Jr. Lectrs., 1 Asst., 1 Tech. Asst., 1 Clerical  
Asst.

\* Member of the Association of Universities of the British Commonwealth



**Chemistry**

- Holliman, F. G., MA PhD *Camb.*, FRSSAf  
(Org. C.) Mally Prof.  
Ahrens, L. H., MA *Oxon.*, DSc *Pret.*,  
FRIC, FGS (Inorg. & Phys. C.) Prof.  
Arnold, R., MSc PhD *Rand*, FRIC Sr. Lectr.  
Spong, A. H., MSc *Lond.*, PhD *Camb.*,  
FRIC Sr. Lectr.  
Lamchen, M., MSc *Pret.*, PhD *Lond.* Sr. Lectr.  
Stephen, A. M., DPhil *Oxon.*, MSc  
PhD Sr. Lectr.  
Carr, A. D., BSc PhD Sr. Lectr.  
Pay, M. H., BSc *Lond.* Lectr.  
Campbell, W. E., BSc *Rhodes* Lectr.  
Kropholler, H. W., BSc Lectr.  
Hotz, M. C. B., BSc PhD Lectr.  
4 Jr. Lectrs., 5 Tech. Assts., 5 Demrs.,  
1 Clerical Asst.

**Classics**

- Paap, A. H. R. E., LittD *Utrecht*,  
BLitt *Oxon.* Prof.  
Pope, M. W. M., MA *Camb.* Prof.  
Hijmans, B. L., LittD *Utrecht* Lectr.  
Newton, B. E., MA *Oxon.* Lectr.  
Conomis, N. C., BA *Athens*, BLitt *Oxon.* Lectr.  
1 Demr.

**Commerce**

- Hutt, W. H., BCom *Lond.* Prof.  
Hampton, J. D., BSc *Lond.* Sr. Lectr.  
Gurzynski, Z. S. A., BCom *Lond.* Lectr.  
Brice, Mrs. Helene, BCom MA Jr. Lectr.  
2 Clerical Assts., 3 Assts.†

**Economics**

- Robertson, H. M., MA *Leeds*, PhD *Camb.*  
Jagger Prof.  
van der Horst, Sheila T., PhD *Lond.*,  
MA Sr. Lectr.  
Botha, D. J. J., MCom *Pret.*, EcDr *Amst.*  
Sr. Lectr.  
Katzen, L. H., BA *Rand*, MSc *Lond.* Sr. Lectr.  
Arkin, M., BA BCom PhD Lectr.  
1 Jr. Lectr., 3 Demrs., 1 Clerical Asst.

**Education**

- ..... (in English) Prof.  
Olivier, S. P., BA *Stell.*, MEd DPhil *S.A.*  
(in Afrikaans) Prof.  
Ferguson, W. T., BA *Rhodes*, MA MEd  
Sr. Lectr.  
Stewart, R. R., BSc *Rand*, BA *Rand* &  
*Potchef.* Lectr.  
Murray, Margaret I., BA *Stell.* Lectr.  
Spilman, Mary D., BA (Elocution) Lectr.  
Hart, Ida E. J., MA BEd PhD Lectr.  
Heynes, I. de V., MA MEd PhD Lectr.  
Satusky, Mrs. Lily-Jean, BA Lectr.  
Groves, Mary E., MA Asst. Lectr.  
9 Assts.

**Engineering, see below****English**

- Howarth, R. G., BA *Syd.*, BLitt *Oxon.*,  
FRSL (E. Lit.) Arderne Prof.  
Casson, L. F., MA *Adel.*, BLitt *Oxon.*,  
PhD *Edin.* (E. Lang.) De Beers Prof.  
Cavers, Dorothy L., BLitt *Oxon.*, MA BEd  
Sr. Lectr.  
Segal, P., MA *Lond.*, BEd Sr. Lectr.  
Levinson, Deirdre, MA BLitt *Oxon.* Lectr.  
Woodward, A. G., MA *Oxon.* Lectr.  
2 Jr. Lectrs., 6 Demrs.

**Fine Art, Michaelis School of**

- Shephard, R. N., DipFineArt *Lond.* Prof.  
van Essche, M. C. L. Sr. Lectr.  
Lipshitz, L. Sr. Lectr.  
Mitford-Barberton, I. G. Lectr.  
Harvey, R. Lectr.  
Simmers, R. M. (Drawing) Asst.  
4 Assts.†, 1 Demr., 1 Sec.

**French**

- Greshoff, C. J., MA LittDrs *Amst.* Prof.  
Whitaker, Mrs. Marie H., MA Sr. Lectr.  
1 Asst., 2 Jr. Lectrs. Lectr.

**Geography**

- Talbot, W. J., BSc *Lond.* Prof.  
Davies, D. H., MA *Wales* Sr. Lectr.  
Impey, I. L. H., MA Lectr.  
1 Demr., 1 Sec.

**Geology, see Mineral.****German**

- Rosteutscher, J. H. W., DPhil *Bres.*,  
PhD *Camb.* Prof.  
Tober, K., PhD *Innsbruck* Lectr.  
1 Jr. Lectr.

**Hebrew**

- Abrahams, I., MA *Lond.* †Prof.  
Blesovsky, J., MA †Asst.

**History**

- Thompson, L. M., MA *S.A. & Oxon.*  
King George V Prof.  
van der Poel, Jean, PhD *Lond.*, MA BEd  
Sr. Lectr.  
Nourse, G. B., MA *S.A.*, *Natal* & *Oxon.*  
Sr. Lectr.  
Davenport, T. R. H., MA *S.A. & Oxon.* Lectr.  
O'Dowd, Clodagh, BA *Oxon.* & *Cape T.* Lectr.  
2 Jr. Lectrs., 1 Demr.

**Law**

- Cowen, D. V., BA LLB  
(Compar. & Comml. L.) Prof.

Price, T. W., MA LLB PhD *Camb.*,  
LLD S.A. (Roman-Dutch L.) Prof.  
Beinart, B., LL.M. *Lond.*, BA LLB  
W. P. Schreiner Prof.  
De Vos, W., BA LLB *Stell.*, LLD Sr. Lectr.  
Thomas, J. D., BA LLB Sr. Lectr.  
Karabus, A., BCL *Oxon.*, LL.M. *Yale*, BA  
LLB Sr. Lectr.  
15 Assts., 1 Clerical Asst.

### Mathematics, Applied

Irving, J., MA *Glas.*, PhD *Birm.* Prof.  
Whiteman, J. H. M., MA *Camb.*, MSc Sr. Lectr.  
Parkyn, D. G., MA *Oxon.* Sr. Lectr.  
Langerman, S. M., MA *Camb.*, MSc Lectr.

### Mathematics, Pure

Sears, D. B., DSc *Rand*, DPhil *Oxon.* Prof.  
Skewes, S., PhD *Camb.*, MA BSc Assoc. Prof.  
Househam, K. O., BSc *Rand*, MA *Prin.*,  
MSc Sr. Lectr.  
Laebeck, H., BA *Oxon.*, MSc Lectr.  
Allison, D., BA MSc BEd Lectr.  
Alma, Mrs. Irene, MF(Electr) *T.H. Delft* Lectr.  
Hardie, K., MSc *Natal*, PhD *Camb.* Lectr.  
Gravett, Isabelle N., BA *Natal* Lectr.  
Smart, D. R., PhD *Camb.*, MSc Lectr.  
2 Jr. Lectrs.

### Microbiology

Olivier, Dorothea L., BSc *Rand*, MSc Lectr.

### Mineralogy and Geology

Simpson, E. S. W., PhD *Camb.*, MSc  
Philipson-Stow Prof.  
Mathias, Mrs. Frances C. M., MA PhD Sr. Lectr.  
DSc  
Taylor, S. R., MA *Oxon.*, MSc *N.Z.*,  
PhD *Indiana* (Geochem.) Sr. Lectr.  
Fuller, A. O., PhD *Prin.*, MSc Lectr.  
1 Res. & Museum Asst., 1 Demr.

### Music

Chisholm, E., DMus *Edin.*, FRCO  
Prof., Dir. of S. African Coll. of Music  
Armhold-Domsaitis, Mrs. Adelheid Sr. Lectr.  
Rubens, H. Sr. Lectr.  
Robins, S. Sr. Lectr.  
Doré, M. Sr. Lectr.  
Pulvermacher, G. Lectr.  
Dennis, E. J. Lectr.  
Kemp, Elizabeth Lectr.  
Taylor, J. C. Lectr.  
Hall, L., BA BMus *Oxon.* Lectr.  
Fiasconaro, G. Lectr.  
Schneider, Elsa Lectr.  
Young, Helen Lectr.  
1 Asst., 2 Clerical Assts., 40 other staff

### Nederlands and Afrikaans

Scholtz, J. du P., MA *Stell.*, LittD *Amst.*  
Hofmeyer Prof.  
van der Merwe, I. W., MA Assoc. Prof.  
Verhage, J. A., MA PhD Sr. Lectr.  
Heiberg, L. R., MA DLitt *Stell.* Lectr.  
Lindenberg, E., LittDoct *Amst.*, BA  
PhD *Rand* Lectr.  
1 Jr. Lectr.

### Nederlands Cultural History

Bax, D., LittD *Nijmegen* Prof.

### Pathology, see Medicine, below

### Philosophy

Murray, A. H., MA *Stell.*, BLitt  
DPhil *Oxon.* Prof.  
Versfeld, M., PhD *Glas.*, MA Assoc. Prof.  
du Plessis, S. I. M., DPhil *Pret.* Sr. Lectr.  
2 Jr. Lectrs.

### Physics

Schaffer, W., MSc PhD *S.A.* Prof.  
Grindley, E. N., MSc *Brist.*, PhD Sr. Lectr.  
Wiles, G. G., MSc *S.A.*, DPhil *Oxon.* Sr. Lectr.  
Juritz, J. W. F., MSc Sr. Lectr.  
Buchowiecki, J., DipElIng *Zür.* Lectr.  
Cherry, R. D., MSc Lectr.  
Borchers, P., BSc Lectr.  
Barrett, P. J., BA BSc *Oxon.*, BScEng Lectr.  
Fernie, J. D., PhD *Indiana*, MSc Lectr.  
1 Jr. Lectr., 5 Tech. Assts., 1 Clerical Asst.

### Physiology and Pharmacology

Sloan, A. W., BSc MD *Glas.*, FRFPGlas Prof.  
Zwarenstein, H. J., DSc *Manc.*, MA MSc  
Sapeika, N., BA PhD MD Assoc. Prof.  
van Zyl, A., MSc *Stell.*, PhD *Rand* Sr. Lectr.  
Barber-Riley, BSc MB ChB *Liv.* Lectr.  
Ramsay, A. G., BSc PhD *Glas.*,  
MS *Northwestern* Lectr.  
1 Jr. Lectr., 3 Lectrs.†, 6 Tech. Assts.,  
1 Clerical Asst.

### Psychology

Danziger, K., DPhil *Oxon.*, BA MSc Prof.  
Taylor, J. G., MA *Aberd.* Sr. Lectr.  
Grover, Vera M., MA PhD Sr. Lectr.  
Schermann, Mrs. Ada, MSc Lectr.  
Botha, Elizabeth, PhD Lectr.  
1 Jr. Lectr., 1 Lectr.†, Tech Asst.,  
1 Clerical Asst.

### Social Science

Batson, E., BSc(Econ) *Lond.* Prof.  
Ventris, Eileen M. E., BA *Lond.*, MA *S.A.*  
Supervisor, Field Work  
Helm, Mrs. Brunhilde, MSocSc Lectr.  
Batson, Mrs. Helen M., BSc(Econ) *Lond.* Lectr.  
1 Clerical Asst., 1 Asst.

**Speech Training**

van der Gucht, Rosalie E., Dipl in Dramatic  
Art *Lond.* Sr. Lectr.  
Taylor, Mavis L., BA *Natal* Lectr.  
Mills, Alice G. Lectr.  
5 Assts.†, 1 Clerical Asst.

**Zoology**

Day, J. H. O., DFC, PhD *Liv.*, BSc *S.A.* Prof.  
Krijgsman, B. J., PhD *Utrecht* Assoc. Prof.  
Broekhuysen, G. J., PhD *Ley.* Sr. Lectr.  
Millard, Mrs. Naomi A. H., PhD Sr. Lectr.  
Paterson, Nellie, DSc *Rand*, PhD *Camb.* Lectr.  
Brown, A. C., MSc *Rhodes* Lectr.  
2 Jr. Lectrs., 1 Clerical Asst., 2 Tech. Assts.

**ENGINEERING**

(see also Maths., above)

**Civil Engineering**

Robertson, R. G., MA *Oxon.* Corporation Prof.  
King, W. H., BA *Manc.*, BSc *Durh.* Sr. Lectr.  
Robertson, D. C., MSc Sr. Lectr.  
McGaw, D. J., BSc *Lond.* Lectr.  
Kilner, F. A., MA *Oxon.*, DIC, MSc *Lond.* Lectr.  
de Kock, M. O., BSc Lectr.  
2 Jr. Lectrs., 2 Tech. Assts., 1 Clerical Asst.

**Electrical Engineering**

Guelke, R. W., PhD *Gött.*, FIP Corporation Prof.  
Besseling, J. L. N., BSc(Eng) PhD Sr. Lectr.  
Webster, G. H., MEng *Sheff.* Sr. Lectr.  
Einhorn, H., DrIng *Berl.*, PhD Sr. Lectr.  
Enslin, N. C. de V., MSc PhD Lectr.  
McLaren, S. G., BSc Lectr.  
2 Jr. Lectrs., 2 Tech. Assts., 1 Demr.

**Land Surveying**

Menzies, G. H., BSc Prof.  
West, I. D., BSc (Theory of Land S.) Sr. Lectr.  
Meadows, P. L., BSc Lectr.  
Taylor, I. McL., BSc Temp. Lectr.  
1 Jr. Lectr., 2 Assts., 1 Tech. Asst.

**Mechanical Engineering**

Elliott, G. G., BSc Prof.  
Metcalf, P., MA *Oxon.*, BSc Sr. Lectr.  
Stegen, R. M., BSc *S.A.*, MSc *Birm.* Sr. Lectr.  
Machin, K. E., BSc(Eng) *Lond.*, MSc Lectr.  
Kessel, J. T., BSc *Rand* Lectr.  
de Candia, O. E., DottIng *Turin* Lectr.  
2 Jr. Lectrs., 2 Assts., 3 Tech. Assts.

**MEDICINE**(for subjects of the first 2 yrs.—  
Anat., etc., see above)

Bromilow-Downing, B., MB ChB  
Prof. of Med. Educn., Dean

**Anæsthetics**

Jones, C. S., MS *Minn.*, MB ChB Sr. Lectr.  
Bull, A. B., MB ChB Sr. Lectr.

Harrison, G. G., MB ChB Sr. Lectr.  
Pretorius, J. A., MMed ChB Sr. Lectr.  
Abelsohn, J., MB ChB †Sr. Lectr.  
Citron, S., MB ChB *Glas.* †Sr. Lectr.  
Jenkin, P. S., MB ChB †Sr. Lectr.  
Atkins, L., MMed ChB Lectr.  
Ozinsky, J., MB ChB Lectr.  
Heyns, M. V., MA *O.F.S.*, MB ChB Lectr.  
Malherbe, P. H., MMed ChB Lectr.  
Voss, T. J. V., MB ChB Lectr.  
Cohen, A. H., MB ChB †Lectr.  
Jowell, D. M., MB ChB †Lectr.  
Levin, J., MB ChB †Lectr.  
Moss, C., MB ChB †Lectr.  
Schmaman, N. W., MMed ChB †Lectr.  
Woelke, J. C., MMed ChB †Lectr.  
8 Assts., 3 Med. Practrs.†

**Bacteriology**, see Pathol. and Bacteriol.**Dermatology**

Lang, R., BA MB BCh *Dub.* Sr. Lectr.  
Jacobson, J. J., BA MB ChB Sr. Lectr.  
Kooij, R., MD Lectr.  
4 Lectrs.†

**Diseases of Children**

Ford, F. J., MD *Glas.*, FRFPGlas  
(Child Health) Prof.  
Hansen, J. D. L., MB ChB Sr. Lectr.  
Smythe, P. M., MB BChir *Camb.* Sr. Lectr.  
McDonald, R., MD *Oxon.* Lectr.  
Heese, H. de V., BSc *Stell.*, MD Lectr.  
8 Staff†

**Ear, Nose and Throat**

Roux, D. J., MA MB BCh *Dub.*,  
MD *Amst.* †Sr. Lectr.  
Dickie-Clark, W. F., MB ChB *Aberd.* †Sr. Lectr.  
6 Lectrs.†

**Forensic Medicine**

Turner, R., MB ChB DPH Prof

**Gynæcology**, see Obstet. and Gynæcol.**Infectious Diseases**

Ackerman, H. R., MB ChB †Sr. Lectr.  
Rabkin, R., MB ChB Lectr.

**Medical Ethics**

Bromilow-Downing, B., MB ChB †Lectr.

**Medicine, General**

Brock, J. F., MA *Oxon.* & *Camb.*, DM *Oxon.*,  
FRCP Prof.  
Eales, L., MD Assoc. Prof.  
Forman, F., MD *Aberd.*, BA, FRCP Sr. Lectr.  
Brown, H. A., MB ChB Sr. Lectr.  
Landau, A., MB ChB Sr. Lectr.  
Mirvish, L., MA MB ChB Sr. Lectr.

Heselson, J., MB ChB, FRCS, FRCSEd	†Sr. Lectr.
Katz, A., MB ChM, FRCS	†Sr. Lectr.
Madden, P. C. W., BSc MB ChM	†Sr. Lectr.
Malherbe, E. B., BSc MB ChM	†Sr. Lectr.
Schrire, T., MA MB ChB, FRCS	†Sr. Lectr.
Schulze, W., MB ChM, FRCS	†Sr. Lectr.
Wilkie, W., MB ChM	†Sr. Lectr.
Roberts, W., MMed ChB, FRCS	Lectr.
12 Lectrs.† & Asst. Surgeons	

**Thoracic Surgery**

3 Lectrs.†, 1 Asst.

**Urology**

Scher, S., MB BS Lond., MA †Sr. Lectr.  
 Currie, J. A., MB MS Lond., FRCS †Sr. Lectr.  
 5 Med. Practrs.†, 1 Asst.

**Vaccination**

Gosling, D. C., MB ChB

†Lectr.

**Venereal Diseases**

Purcell, F. W. F.  
 Cohen, L.

†Sr. Lectr  
 †Lectr

**ADMINISTRATIVE AND OTHER STAFF**

Public Relations Officer : D. Fourie, BA. Dir. of Extra-Mural Studies : G. M. Sargeant, MA Camb., BA. Accountant : P. G. McDonald, BA S.A. Hon. Sec. of Appts. Cttee. : Prof. S. P. Olivier. Asst. Registrar : L. P. Faber, BA S.A. Asst. Accountant : L. Read. Chief Cttee. Clerk :

D. W. Webster, BA Oxon. Chief Clerk Accts. : P. W. Lee. Exams. Clerk : Doris E. MacDonald. Bookkeeper : Ivy M. Layton. Sr. Clerks : D. S. Cooper, BA ; M. G. Hibbard ; H. G. Heydenrych, BA BCom. Sr. Cttee. Clerk : B. A. A. Riordan ; Jr. Cttee. Clerk : E. E. Bosworth.

**GENERAL INFORMATION**

The South African Coll., founded in 1829 as a private venture by the churches and citizens of Cape Town and its neighbourhood, was until 1874 a combined primary and secondary sch. with a tiny univ. section at the top. Although the coll. had always had a senate, it was only in 1879 that the governing power passed from the body of shareholders to a council. In 1887 College House, the first univ. residence south of the Sahara, was opened and in the same yr. the general admission of women was granted. Courses in law were added to the arts and sci. courses. From 1900 to 1918 the coll. expanded. There were the beginnings of the schs. of med., engin. and educn., the opening of the first women's residence and finally the incorporation of the coll. in the univ. which was created by Act 14 of 1916 and came into legal existence on April 2, 1918. The council took over a bequest by Sir Julius Wernher of £250,000 and a donation of equal amount from Sir Otto Beit, who added £50,000 to a lapsed bequest by Mr. Alfred Beit.

A site for the univ. was provided by govt. at Groote Schuur, Rondebosch. Over the past 40 yrs. this has been devel. (see 'Univ. Precinct and Location', *below*) by the erection of tuitional bldgs., several student residences and the Jameson Memorial hall. The univ. has expanded through the incorporation of the S.A. Coll. of Music, the creation of facs. of comm., soc. sci., schs. of African studies, fine art and archit. and the growth of existing facs. Further land adjacent to the site has been purchased and med. bldgs. erected. Greater expansion is envisaged in view of the post-war increase in population and rapid scientific devels.

The LANGUAGE OF INSTRUCTION is English.

CONSTITUTION. The hd. of the univ. is the chancellor; the chief academic officer is the principal, who is *ex-officio* vice-chancellor; the governing body is the council, which consists of the principal (*ex officio*), 5 members nominated by

the govt., 6 members elected by convocation, 3 by the old students' constituency, 1 by the diocesan coll. constituency, 3 profs. by senate, and 2 members elected by Cape Town corporation. The control and management of discipline and instructn. within the univ. is in the hands of the senate, which consists of the principal, the profs., 2 members elected by the council and 2 assessor members elected by the lecturers' assocn. of the univ.

Convocation, which consists of the profs. and lectrs. of the univ. and its grads., elects the chancellor, 6 members of the council, and a pres. of convocation; it may discuss any matter relating to the univ., and may communicate directly with the council or the senate.

INCOME. The total revenue for the year 1959 was £1,012,781 (govt. grants, 65.3 per cent.; fees, 31.6 per cent.; endowments, etc., 3.1 per cent.).

FACULTIES. Arts, comm., educn., engin., fine art & archit., law, med., music (incl. ballet and opera schs.), sci. and soc. sci. Deans, except of fac. of med., are apptd. annually.

UNIVERSITY PRECINCT AND LOCATION. The main bldgs., designed chiefly by Sir Herbert Baker, are set on the Cecil Rhodes estate, Groote Schuur, against the background of the eastern slopes of Table Mountain and Devil's Peak, approx. 5 mls. from Cape Town. The site commands a superb view. These bldgs. house all facs. except comm., med. and music, which are situated, respectively, in Cape Town, Mowbray (2 mls. from the main bldgs.) and Rosebank ( $\frac{1}{2}$  ml. from the main bldgs.).

LIBRARY. 306,000 vols., 35,000 pamphlets. Includes med. libr. (35,000 vols.); music libr.—books (4000), scores (10,000) and records (5000); archit. libr. (5000 vols.); Van Zyl law libr. (early Roman-Dutch law) and Bolus bot. libr. The Bolus herbarium includes the Guthrie collection of Cape flora.

**TEACHING HOSPITALS.** Groote Schuur H., Cape Peninsula Maternity H., Mowbray Maternity H., Red Cross War Memorial Children's H. and certain wards in Somerset H.

**FIRST DEGREES.** 3 yrs.—BA (4th yr. for honours in any of following: art, Bantu langs., classics, econ., Engl. lang. & lit., ethnol. & archaeol., French, geog., German, Greek, Hebrew, hist., Latin, maths., music, native law & admin., Nederlands & Afrikaans, philos., psychol., soc. anthropol.), BSocSc, BSc (pure sci.) (4th yr. for honours in any of following: bot., chem., geog., geol., maths., phys., physiol., psychol., zool.), BCom; 4 yrs.—BA(FineArt), BMus, BSc(ChemEng), BSc(Eng), BSc(LandSurv); 5 yrs.—LLB; 6 yrs.—MB ChB, BArch.

**HIGHER DEGREES.** MA, MArch, MA (fine art), MSocSc, MSc, MCom, 1 yr.; BEd, 2 yrs., after approved bachelor's degree; MEd, 2 yrs., after approved master's or equivalent degree; MMed (in various specialties), ChM, MD, open to grads. of at least 4 yrs.' standing. The MA, MSc, MSc in engin. and MCom courses are open to grads. of any approved univ.; so also are courses for the PhD (open to bachelors of at least 3 yrs.' standing), DSc (open to bachelors of at least 5 yrs.' standing) and DLitt (open to bachelors of at least 8 yrs.' standing), for which attendance for 2 yrs. may be required. The MCom is open to BComs of 3 yrs.' standing. The LL.M is open to LLBs of 2 yrs.' standing; the LLD is open to LLBs or LL.Ms of 2 yrs.' standing.

**HONORARY DEGREES.** Any of the degrees mentioned above may be conferred as honorary degrees.

**DIPLOMA COURSES.** 1 yr.—analyt. chem., librarianship, native admin. (lower dipl.), nursing, pub. health (postgrad.); 2 yrs.—native admin. (higher dipl.); 3 yrs.—comm., educn., fine art, music, physiotherapy, speech & drama, soc. scis.; 6 yrs.—archit., quant. surv.

**CERTIFICATE COURSES.** 1 term postgrad.—exploration geochem.; 1 yr. postgrad.—secondary teacher's; 3 yrs.—comm. art, fine art, higher primary teacher's, music, soc. work, speech trg.

**OTHER COURSES.** Classes for students in agric., theol. and vet. sci. proposing to graduate in those subjects elsewhere.

**FELS.** The annual academic fee covers all charges for a student's registration, classes and labs., ordinary univ. exams., graduation, library, athletics, students' socs. and, in the case of med. students, hosp. fees for clin. instructn. In those degree courses where there is a choice of subjects the fee is charged per course taken. For courses where there is ordinarily no choice of subjects the fee is uniform throughout the normal duration of the course. BA and BSocSc, £28 p.a. per non-sci. course, max. £96 for a 1st yr. curriculum which incl. only 1st courses; BA(FineArt), £82 p.a.; BSc, £34 p.a. per course, max. £120 for a 1st yr. curriculum which incl. only 1st courses; BArch, £106 p.a. for 4 yrs., £28 for 5th yr., £52 for 6th

yr. BEd, £78 p.a.; LLB, for 4th & 5th yr. curriculum, £84 p.a.; MB ChB, 1st yr. as for BSc, 2nd and subsequent yrs., £116 p.a.; BMus, £90-£120 p.a.; BCom, £28 p.a. per course, max. £96 for a 1st yr. curriculum which includes only 1st courses; BSc(Eng), BSc(ChemEng), BSc(LandSurv), £106 p.a.; master's degree—arts, £94 over 2 yrs.; engin. and sci., £18 p.a. plus addnl. £12 when thesis is submitted; educn., £53 p.a.; archit. and fine art, £40 p.a.; law, £27 p.a.; med., £34 p.a.; doctor's degrees: PhD, £18-£42 p.a.; MD, £34 p.a.; others, £18-£48 p.a.

**ACADEMIC YEAR.** March to Dec., 2 terms of 18 weeks each.

**'OPEN' ENTRANCE AWARDS.** A Jagger scholp. of the annual value of £200, tenable for 3 (or possibly 4) years subject to satisfactory conduct and progress, is offered to a student from Gt. Britain proposing to take his degree at the Univ. of Cape Town.

**'OPEN' POSTGRADUATE AWARDS.** S. A. C. Croll scholp., £300 p.a. for 2 yrs.; Smartt Memorial scholp. (in agric.), £200 p.a. for 2 or 3 yrs.

**RESIDENCE.** Fee for bd., residence and laundry, £160 p.a. Fuller Hall (215 women), warden—Mrs. Doris S. Emmett, BA *Manc.*; Smuts Hall (217 men), warden—Prof. G. H. Menzies, BSc; College House (120 men), warden—W. T. Ferguson, MA MEd; University House (89 men), warden—Prof. T. W. Price, MA LLD PhD *Camb.*; Medical Residence (89 men), warden—R. Lane Forsyth, BA MB ChB, FRCSI; Driekoppen (240 men), warden—S. Skewes, PhD *Camb.*, MA BSc; Baxter Hall (198 women), warden—Mrs. Joan H. van den Ende, BSc.

**ADMISSION.** See Appendix II. Prospective students are advised to take for the matric. cert. at least 2 of the subjects, French, German, Greek, Latin, maths. A pass in Latin is essential for LLB and in maths. for degrees in chem. engin., archit., pure sci., engin., land surv., med. sci. and for dipl. in quant. surv.

**EXTRA-MURAL STUDIES.** The bd. of extra-mural studies is responsible for the orgn. of vacation courses, week-end conferences, courses corresponding to those given for the W.E.A., extension lectures in town and country, and courses in citizenship and other current topics.

**STUDY LEAVE AND FURLOUGH.** Members of permanent academic staff are eligible for study leave and furlough after each cycle of 6 yrs.' continuous service, i.e. 3 mos. full pay and 3 mos. half pay for either study leave or furlough, and if taken together 6 mos. full pay and 6 mos. half pay.

**STUDENTS' HEALTH SERVICE.** Every student is required to pay an annual fee of £1. Privileges include a full med. exam. each yr. and payment of half of doctor's account up to a max. of £25 p.a. When med. attention is necessary a student may consult any general practitioner.

**APPOINTMENTS BOARD.** A cttee. representative of the several facs. assists grads. seeking employment.

**STUDENTS' VISITING LECTURERS FUND.** Administered by cttee. consisting of students nominated by students' representative council together with reps. of univ. senate. Object: to bring to the univ. visiting lectrs. eminent in their specific fields and capable of providing cultural stimulus through their contacts with students and staff. To pay for travelling and living expenses of the

lectrs. and the orgn. and admin. expenses of the cttee., all registered students are charged 10s. p.a.

**PUBLICATIONS.** *Calendar* (Dec.); students' repve. council's *Groote Schuur*; *Annals of the Bolus Herbarium*; *Report on Publications and Res. in the Univ., 1957-1959*; *The History of South African College, 1829-1928*, by Prof. W. Ritchie (2 vols.: Maskew Miller, Cape Town); *The S.A. College and the Univ. of Cape Town, 1829-1929*, by Prof. E. A. Walker.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: composite block for sch. of archit., sch. of soc. sci. and dept. of land surv. *Approaching completion*: extensions to depts. of geol. and zool.

**NEW DEPARTMENTS AND CHAIRS.** Dept. & chair of appl. maths. and theoret. phys.

**RESIGNATIONS.** Dr. G. Fortune (Bantu langs.), apptd. to chair of African langs., U.C. of Rhodesia & Nyasaland; Dr. D. J. Opperman (Nederlands en Afrikaans), apptd. to chair of Afrikaans lit., Stell.; T. G. D. van Schalkwyk (phys.), apptd. to chair of phys., U.C. of the Western Cape.

**DEATHS.** Dr. W. D. Baxter (chairman of council); A. J. H. Goodwin (assoc. prof. of ethiol. & archæol.); M. J. Pollard (assoc. prof. of appl. maths.).

**HONORARY DEGREES.** *LLD*—J. M. Murray, judge and scholar; S. M. Naude, pres., S.A. Council for Scientific & Industr. Res.

## Statistics

STUDENT NUMBERS, 1960  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time*</i>
Men . . .	3417	154
Women . . .	1356	407
Total . . .	4773	561

Distribution by Faculties. *Arts*, 969; *comm.*, 837; *educn.*, 259; *engin.*, 658; *fine art & archit.*,

452; *law*, 148; *med.*, 763; *music*, 552; *sci.*, 573; *soc. sci.*, 123. Total: 5334.

*Included in the figures above are:—*

Postgraduate students, 302.

New admissions, 1531.

Students from other countries, 652. (Countries from which largest numbers came: Fed. of Rhodesia & Nyasaland, 603; U.K., 13; Kenya, 10; Belgian Congo, 10).

**DEGREES AWARDED (1959).** *Arts*: BA, 165; BA (hons.), 19; MA, 4. *Comm.*: BCom, 32. *Educn.*: BEd, 4. *Engin.*: BSc(Eng), 69; BSc (ChemEng), 11; BSc(LandSurv), 6. *Fine art & archit.*: BA(FineArt), 5; BArch, 27. *Law*: LLB, 14. *Med.*: MB ChB, 74; MMed, 12; MD, 6. *Music*: BMus, 1. *Sci.*: BSc, 119; BSc (hons.), 22; MSc, 7. *Soc. sci.*: BSocSc, 11; MSocSc, 2. PhD (all facs.): 8.

**DIPLOMAS AWARDED (1959).** Jr. sec. teacher's dipl., 4; law, 15; libr., 5; archit., 6; quant. surv., 8; fine art, 2; pub. health, 4; speech & drama, 4; teacher's lic. dipl. in music, 12; performer's dipl. in music, 2.

**CERTIFICATES AWARDED (1959).** Sec. teacher's, 56; grad. primary teacher's, 5; higher primary teacher's, 23; teachers of children handicapped in speech & hearing, 3; teachers sp. classes, 1; higher cert. libr., 17; cert. libr., 19; comml. art, 8; fine art, 3; theory of accty., 59; ballet, 5; exper. geochem., 2.

\* Students not attending full degree, diploma or certificate courses are classified as part-time students

# UNIVERSITY OF NATAL\*

Incorporated 1949 ; previously established as Natal University College, 1909

## Postal Addresses :

King George V Avenue, Durban, South Africa  
(Cables and Telegrams : University Durban ; Telephone : 58561)

P.O. Box 375, Pietermaritzburg, South Africa  
(Cables and Telegrams : University Pietermaritzburg ; Telephone : 2-2385)

CHANCELLOR—Hon. D. G. SHEPSTONE, Hon. LLD

PRINCIPAL AND VICE-CHANCELLOR—E. G. MALHERBE, BA *Cape*, MA *Stell.*, PhD *Col.*, Hon. LLD *Camb.*,  
*Melb.*, *McG.* & *Cape T.*

CHAIRMAN OF COUNCIL—G. G. CAMPBELL, MB ChB LLD *Edin.*, FRCSEd

PRESIDENT OF CONVOCATION—A. GOLDBERG, BA *S.A.*, MA *Oxon.*

REGISTRAR—P. G. LEEB-DU TOIT, BCom *S.A.*

ACCOUNTANT—A. J. LYLE, BCom *S.A.*

LIBRARIAN—J. W. PERRY, MA *Camb.*, FLA

## TEACHING STAFF

[Allocated between Durban=D and Pietermaritzburg=P]

[†=Part-Time]

### Accounting and Auditing (D & P)

Fairbairn, W. J. G., FSAA Prof. (D)  
Waldeck, T. J. H., MCom *S.A.* Sr. Lectr. (D)  
Simons, A. F. S. Sr. Lectr. (D)  
Eggers, H. C., BCom Sr. Lectr. (D)  
Armstrong, J., BCom *Pret. & Natal* Sr. Lectr. (P)  
Skinner, N. L. C., BEcon *S.A.*, BCom Sr. Lectr. (P)  
7 Lectrs.† for professional accty. classes

### Afrikaans and Nederlands (P & D)

Nienaber, G. S., MA MEd *S.A.*,  
LittD *Ghent* Prof. (P)  
Grobler, P. du P., MA *S.A.*, PhD Sr. Lectr. (D)  
Nienaber, C. J., MA *S.A.*, DoctLitt *Amst.*,  
DLitt *Pret.* Sr. Lectr. (P)  
van der Walt, P. D., MA *S.A.* Sr. Lectr. (D)  
Botha, T. J. R., BA *Stell.*, MA *Pret.* Lectr. (D)  
Nienaber, Mrs. Willemina, LittCand *Amst.* Lectr. (P)  
..... Lectr. (P)

### Agriculture, see below

### Architecture and Quantity Surveying (D)

Connell, P. H., BArch *Rand* Prof.  
Croft, L. T., BArch *Liv.*, DipITP *Rand* Sr. Lectr.  
.....

Dick, C. R. S., BSc(QS) *Pret.* Sr. Lectr.  
Biermann, B. E., BArch PhD *Cape T.* Lectr.  
Lewcock, R. B., BArch *Cape T.* Lectr.  
Brandt, Hope D., BAFineArts *S.A.* Lectr.  
Dyke-Wells, D. N., BArch *Rand* Lectr.  
Chandler, E. W., MCD *Liv.*, BArch Lectr.  
1 Lectr.† for professional classes

### Bantu Language, see Soc. Anthropol.

### Botany (P & D)

Bayer, A. W., DSc *S.A.* Prof. (P)  
Meidner, H., PhD *Lond. & Natal*, MSc Sr. Lectr. (P)  
Gordon-Gray, Kathleen, MSc *S.A.*, PhD Lectr. (P)  
Lewis, O. A. M., MSc Lectr. (D)  
Meyer, M. A., BSc *Rhodes* Lectr. (P)

### Chemistry and Chemistry Technology (P & D)

Warren, F. L., DIC, PhD DSc *Lond.*,  
FRIC Prof. (P)  
Valentin, F. H. H., BSc *Edin.*, MSc *Rand*,  
PhD, FRIC Prof. (D)  
Schreiner, G. D. L., BSc *Rand*, PhD *Camb.* Prof. (P)  
..... Prof. (D)

Member of the Association of Universities of the British Commonwealth



**Statistics and Finance**

Reitsma, A., MSc <i>S.A.</i>	Sr. Lectr.
Calitz, F., MCom <i>Stell.</i>	Lectr.
Oosthuizen, J. H., MSc	Lectr.

**Zoology**

De Wit, J. J. D., PhilNatD <i>Utrecht</i>	Prof.
van Pletzen, R., DSc <i>Stell.</i>	Sr. Lectr.
Dreyer, Maria V., BSc <i>S.A.</i> , MSc	Lectr.

**TEACHERS' COLLEGE**  
of the University of the O.F.S.

Loubser, Prof. J. W., MA <i>Oxon.</i> , BEd	Principal
.....	Vice-Principal
Blignault, Prof. H., BA DEd <i>Stell.</i>	
	Dean, Fac. of Educn.

**Education**

Blignault, H., BA DEd <i>Stell.</i>	
	(Educnl. Psychol.) Prof.
Fourie, J. J., BA <i>Stell.</i> , DEd <i>S.A.</i>	
	(Pedagogy) Prof.

**Senior Lecturers**

Botha, G., BA BSc BEd	(Arith.)
.....	(Hist. of E.)
Britton, A. H., BA BEd	(Phys. E.)
Conradie, R. P., MA BEd <i>Stell.</i>	(Soc. Studies)
Schoeman, W. J., BCom BEd	(Woodwork)

Green, J. T., BA <i>Stell.</i> , MA <i>S.A.</i> , PhD <i>Leeds</i>	(Engl.)
Hopewell, Dorothy, BA	
	(Fine Arts, Drawing & Hist. of Arts)
Pretorius, Z. J., MA <i>S.A.</i> , DLitt <i>Stell.</i>	

	(Afrikaans)
Lombard, C. J., BA	(Elocution)
Loubser, Annette S., BA	(Needlework)
Pretorius, J. L., BA <i>Stell.</i> , MEd <i>Pret.</i>	
	(School Org.)
Swart, C. P., MA <i>S.A.</i> , BEd	(Engl.)
van der Meulen, Maryna, BA	(Phys. E.)
van Rooyen, G. H., BScAgric	(Agric.)
Weideman, A. J., MA	(Afrikaans)
Lecturers	

.....	(Soc. Studies)
Van der Riet, Rynora, BA	(Phys. E.)
Geyser, W. P. G., MSc	(Arith.)
Van Rensburg, Miss H.	(Hygiene)
Kruger, Miss D. C.	(Needlework)
Nel, P. R., BA(FineArts)	(Art)
Schoeman, G. C., BA BEd	(Woodwork)
van Staden, R. J.	(Blackboardwork)
Toerien, Miss M. S. L.	(Engl.)
van Loggerenberg, Rev. J. H., BA	(Bible Hist.)
van Rensburg, P. J. N. J., MA	(Phys. E.)
Welman, H. G., BCom	
	(Shorthand & Typewriting)
Van Rensburg, Miss M. C., BMus	(Music)
Lemmer, P. J.	(Singing)
Van Loggerenberg, N. T., BA MED	(Educn.)

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar : A. S. Theron, BCom. Book-keepers : M. C. Schwella, BCom ; H. J. Kruger, BCom. Registration Officer : H. W. D. Coetzee,

BCom. Exam. Clerk : A. L. Badenhorst, BA Admin.

**GENERAL INFORMATION**

Founded in 1855 by Sir George Grey and establd. as Grey Univ. Coll. in 1904, the coll. was granted indep. status by Act no. 21 of 1949, and on March 18, 1950, became the Univ. of the Orange Free State. It provides courses for degrees in arts, sci., law, educn., comm., music, phys. educn., archit., quant. surv., agric., admin., and professional qualif. for soc. workers, also prelim. trg. for med. and chem., engin. and vet. sci. Facilities are also provided for students preparing for the 'admissie-eksamen' of the Theol. Seminary at Stellenbosch.

Bloemfontein, the capital of the Orange Free State, has a pop. of 98,900 (European, 42,400 ; non-European, 56,500).

**CONSTITUTION.** The univ. consists of the chancellor, the rector (who is *ex officio* also vice-chancellor), the council, the senate, convocation, and the profs., dirs. or hds. of res. instns. controlled by the council, lectrs., other teachers and students of the univ.

**FACULTIES AND DEANS.** *Agric.*, Prof. W. H. K. Coetzee ; *arts*, Prof. B. Kok (Afrikaans & Dutch) ; *comm. & pub. admin.*, Prof. P. J. Malherbe (acctg.) ; *educn.*, Prof. H. Blignault ; *law*, Prof. S. J. H. Steven ; *sci.*, Prof. A. P. Malan (maths.) ; *soc. sci.*, Prof. J. de W. Keyter (sociol.).

**LIBRARIES, ETC.** Univ. library, 65,000 vols. Students also have access to the Fichardt library, railway library, union govt. archives, war museum, national museum, Lamont observatory and Boyden observatory.

**LABORATORIES.** Appl. maths., bot., chem., geog., geol., phys., phys. educn., psychol., zool.

**TERMS.** Feb. to June, July to Nov.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** BArch, BSc(QS)—5 yrs. (6th yr. for hon.) ; BScAgric—4 yrs. ; BMus—4 yrs. (5th yr. for hon.) ; BA, BSc, BCom, BAdmin, BSocSc—3 yrs. (4th yr. for hon.). The hon.

course is a separate course of 1 or 2 yrs.; hon. courses for BA, BSc, BCom, BAdmin, BSocSc, are available in all the major subjects in the several facs.

**HIGHER DEGREES.** LLB—3 yrs. after BA or BCom; BEd—1 yr. full-time or 2 yrs. pt.-time; MEd—1 yr. after BEd; MArch, MA, MSc, MCom, MAdmin, MSocSc, MMus, MSc(QS)—1 yr. after corresp. hon. degree. DArch, DLitt, DPhil, DSc, DEd, DCom, DAdmin, DMus, LL.D—4 yrs. after corresp. master's degree.

**HONORARY DEGREES.** Any of the degrees mentioned above may be conferred as honorary degrees.

**DIPLOMAS.** Univ. dipl. in educn.—1 yr. post-grad.; dipl. in soc. sci., dipl. in music, dipl. jurisp., attorney's admission and public service law exam.—3 yrs.; cert. in theory of accounting—4 yrs.; dipl. in archit., dipl. in quant. surv.—5 yrs.

**EVENING LECTURES.** For the convenience of candidates who are employed during the day, lectures leading to the BA, BAdmin, BCom, LLB, are given after 5 p.m. each day in the univ. bldgs.

Assistance is also given to candidates for the CA (S.A.) exams., attorney's admission exam., and civil service law exams.

**TUITION FEES.** £25 per semester (£32 for BAgric, BSc or BArch; £37 : 10s. for BMus or £50 for the dipl. in music).

**USUAL LANGUAGE OF INSTRUCTION.** Afrikaans.

**STUDENT RESIDENCES.** The President Steyn-tehuis and Kestell-tehuis for women, the Abraham Fischer-tehuis, the President Reitz-saal and Huis Malherbe for men are all situated near the main univ. bldg. Accommod.: 210 women, 300 men. Bd. & residence: women, £112 p.a.; men, £118 p.a.

**ATHLETIC FACILITIES.** There are a number of tennis courts at the hostels for the use of resident students. Several good playing fields enable students to participate in football, hockey and other sports. There is also a swimming bath for students.

There are numerous STUDENT SOCIETIES.

**PUBLICATIONS.** *Calendar*; students' magazines—*Shimla* (annually), *Irawa* (monthly).

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* extension to library; extension to chem. bldg.; extension to phys. bldg.; men's hall of residence (to accomm. 40); dining hall for men (to accomm. 160). *Approaching completion:* bldg. for fac. of agric.; maths. and psychol. bldg.

**RESIGNATIONS.** Prof. W. A. Joubert (law), apptd. prof. of law, S.A.; S. A. Strauss (law), apptd. sr. lectr. in law, S.A.; Prof. J. J. Ross (law), apptd. rector, U.C. of Fort Hare; Prof. O. C. Erasmus (educn.), apptd. prof. in educn., Pret.; W. Richards (Latin), apptd. sr. lectr. in Latin, Pret.; Dr. J. P. Botma (educn.), apptd. prof. in educn., U.C. of Fort Hare; Dr. F. V. Lategan (Afrikaans), apptd. prof. of Afrikaans, U.C. of Western Cape; C. Hanekom (anthropol.), apptd. sr. lectr. in anthropol., U.C. of North; D. A. van Rooyen (maths.), apptd. prof. of maths., U.C. of Zululand; Prof. A. van Schalkwyk (anthropol.), apptd. minister of D.R. Church; R. Venter (appl. maths.), to study at Stell.; P. J. Kruger (phys.), to private practice.

**HONORARY DEGREES.** DLitt—D. B. Bosman, formerly prof. of Afrikaans; D. F. Malherbe, formerly prof. of Afrikaans; S. P. E. Boshoff, formerly prof. of Afrikaans.

### Statistics

#### STUDENT NUMBERS, 1959

	Full-Time*	Part-Time
Men . . .	1143	—
Women . . .	673	—
<b>Total</b>	<b>1816</b>	

**Distribution by Faculties.** *Agric.*, 34; *arts*, 550; *comm. & pub. admin.*, 252; *educn.*, 589; *law*, 78; *sci.*, 272; *soc. sci.*, 41. Total: 1816.

*Included in the figures above are:—*

Postgraduate students, 313.

New admissions, 685.

Students from other countries, 11.

**DEGREES AWARDED (1959).** Hon. MA, 1; hon. DScAgric, 1; DPhil, 5; DLitt, 1; DSc, 1; MA, 5; MSc, 4; MEd, 6; BA, 70; BA (hons.), 17; BMus, 6; BSocSc, 5; BSocSc (hons.), 2; BSc, 30; BSc (hons.), 15; BCom, 27; BCom (hons.), 4; BAdmin, 6; BAdmin (hons.), 1; BEd, 7; LLB, 9.

**DIPLOMAS AWARDED (1959).** Soc. work, 2; music, 10; univ. teacher's, 59; dipl. jurisp., 4.

Includes 606 extra-mural students (548 m., 58 w.)

# POTCHEFSTROOM UNIVERSITY

## FOR CHRISTIAN HIGHER EDUCATION \*

Founded 1869 ; incorporated as an independent university, 1951

*Postal Address* : Potchefstroom, Transvaal, South Africa

*Cables and Telegrams* : University Potchefstroom

*Telephone* : Potchefstroom 2222

CHANCELLOR—F. J. DU TOIT, BA *Stell.*, DComm

CHAIRMAN OF COUNCIL—Rev. D. N. KOTZE

VICE-CHANCELLOR, PRINCIPAL AND CHAIRMAN OF THE SENATE—Professor J. CHR. COETZEE, MA MEd  
DPhil S.A., FBPsS

VICE-CHAIRMAN OF THE SENATE—Professor D. J. VAN ROOY, MA S.A.

PRESIDENT OF CONVOCATION—Professor H. G. SCHULZE, MA S.A., DPhil *Bonn*

REGISTRAR—S. DU TOIT, MComm

ASSISTANT REGISTRAR—G. P. SCHOEMAN, BA S.A., BComm *Pret.*

LIBRARIAN—H. C. VAN ROOY, MA S.A., BSc *Col.*, FSALA

## TEACHING STAFF

[† = Part-Time]

### Accounting and Auditing

Grové, J. A., BComm	Prof.
Venter, O. T., BComm <i>Stell.</i>	Sr. Lectr.
Sorgdrager, A. J. E., BA BComm S.A., MComm	Sr. Lectr.
Faul, M. A., BComm	Lectr.

### Afrikaans and Nederlands

Dekker, G., MA S.A., DLitt&Phil <i>Amst.</i>	Prof.
Labuschagne, F. J., MA S.A.	Prof.
Venter, H., MA DLitt S.A.	Sr. Lectr.
Cloete, T. T., MA S.A., DLitt&Phil <i>Amst.</i>	Sr. Lectr.

**Art**, see Hist. and Appreciation of Art

### Bantu Languages

Breed, J., MA <i>Pret.</i>	Sr. Lectr.
Krüger, C. J. H., BA	Lectr.
Prinsloo, H. P., BA	Jr. Lectr.

**Bible**, see Theol.

### Botany

Goossens, A. P., PhD DSc S.A., FRS	Prof.
Botha, P. J., MSc PhD S.A.	Prof.
Papendorf, M. C., MSc PhD S.A.	Sr. Lectr.
Van Wyk, J. J. P., MSc	Lectr.
2 Temp. Assts.	

### Chemistry

Tiedt, J., MSc S.A., PhD <i>Leeds</i>	Prof.
Van den Berg, J. A., MSc S.A.	Sr. Lectr.
Arnold, N., MSc S.A., MEd	Sr. Lectr.
Schutte, C. J. H., DSc <i>Amst.</i> , BSc	Jr. Lectr.
Williams, C. S., MSc	Jr. Lectr.
1 Lab. Techn.	

### Commerce

Viljoen, D. J., MComm S.A., DComm <i>Stell.</i>	Prof.
Erasmus, D. P., DComm <i>Pret.</i> , MComm	Sr. Lectr.

### Cost Accounting

Sorgdrager, A. J. E., BA BComm S.A., MComm	Sr. Lectr.
---	------------

### Domestic Science

Potgieter, Mrs. Maria M., BSc(DomSc) <i>Pret.</i>	Sr. Lectr.
Du Plessis, Gwendolyn, BSc(DomSc)	Lectr.
Heydenreich, Mrs. Cornelia C. R., MA BSc(DomSc) <i>Pret.</i>	Temp. Lectr.
Jacobsz, Maretha S., BSc(DomSc) <i>Pret.</i>	Jr. Lectr.
Van der Westhuizen, Elsje E., BEd	Jr. Lectr.

### Economics

Coetzee, F. J. J., BA BComm BEcon S.A., MComm DEcon <i>Rotterdam</i>	Sr. Lectr.
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\* Member of the Association of Universities of the British Commonwealth

Du Plessis, F. J., MComm DEcon *V.U.Amst.*

Venter, W. J., MComm *O.F.S.*

### Education

Bingle, H. J. J., MEd DPhil *S.A.*

Snyman, J. J., MA MEd *S.A.*, DEd

Schutte, B. C., BA MSc *S.A.*, DEd

Lectr.  
Lectr.

Prof.  
Prof.  
Prof.

### English

Fourie, I. J. v. H., MA DPhil *S.A.*, DLitt Prof.  
Andrew, R. V., BA *O.F.S.*, BEd DLitt

Pretorius, J., BA *S.A.*, MA  
Prinsloo, W. J. de V., BA *S.A.*,  
BED *O.F.S.*

Sr. Lectr.  
Sr. Lectr.

Lectr.

3 Temp. Assts.

### Ethnology and Native Administration

Coetzee, J. H., MA *S.A.*, DPhil

Henning, J. J., MA

Prof.  
Lectr.

### French

Dekker, G., MA *S.A.*, DLitt&Phil *Amst.*

Lampen, Mrs. Anna D., BA *Pret.*,  
Dipl *Cours de Civilisation, Paris* Prof., Hd. of Dept.  
Temp. Lectr.

### Geography

Van der Merwe, J. S., MSc MA *S.A.*

Duvenage, J. P., MA *S.A.*

Verhoef, P., BA

1 Temp. Asst.

Prof.  
Sr. Lectr.  
Lectr.

### Geology

Ackermann, P. B., MSc *Cape T.*

Bisschoff, A. A., MSc *S.A.*

1 Temp. Asst.

Prof.  
Sr. Lectr.

### German

Brandt, P. A., MA *S.A.*, DPhil *Leip.*

Schulze, H. G., MA *S.A.*, DPhil *Bonn*

Emer. Prof.

### Greek

Postma, A., MA CandTheol *S.A.*

Grobler, J. H., BA *S.A.*, MA *Pret.*

Prof.  
Lectr.

### History

Krüger, D. W., MA DLitt *S.A.*

Du Plessis, J. S., MA *S.A.*, DLitt

van der Walt, C. P., MA

Prof.  
Sr. Lectr.  
Sr. Lectr.

### History and Appreciation of Art

Dekker, G., MA *S.A.*, DLitt&Phil *Amst.*

Prof.

### Hygiene, see Zool. and Hyg.

### Latin

Coetzee, W. N., MA DPhil *S.A.*,  
MEd *Stell.*

Coetzee, J. J., MA *S.A.*

Prof.  
Sr. Lectr.

### Law and Politics

Swanepoel, H. L., BA LL.D *Stell.*

Du Plessis, L. J., MA MEcon LLB *S.A.*

Van Zyl, F. J., BA LLB *Stell.*

Postma, S., BA LLD *Ley.*

van der Walt, C. P., MA

Van der Vyver, J. D., BComm LLB

3 Assts.†

Prof.  
Prof.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.

### Library Science

Malan, S. I., MA *S.A.*

Van Rooy, Mrs. Johanna C., BA *S.A.*,  
BSc *Col.*, FSALA

Van Rooy, H. C., MA *S.A.*, BSc *Col.*,  
FSALA

Sr. Lectr.  
Lectr.  
Librarian

### Mathematics and Applied Mathematics

Van Rooy, D. J., MA *S.A.*

Robbertse, W. P., MSc *S.A.*,  
DrScT *T.H.Delft*

Schutte, H. J., MSc *S.A.*, DSc *Ley.*

Strydom, B. C., DSc *Ley.*, MSc

2 Temp. Assts.

Prof.  
Prof.  
Sr. Lectr.  
Lectr.

### Music

Roode, M. C., BMus *S.A.*

van der Walt, J. J. A., BSc *S.A.*, MMus  
DPhil *Cologne*

De Villiers, P., BA *Stell.*

Wegelin, A. W., MMus *S.A.*

Snyman, Andriette E., BMus *Stell.*

Coetzee, H. P. A., MMus

Snyman, Jeannette F., BMus

Theron, Mrs. Sarie M. E. P.

Potgieter, J. H., MMus *Stell.*

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Jr. Lectr.  
Jr. Lectr.  
Jr. Lectr.

### Native Administration, see Ethnol.

### Pharmacy

Gerritsma, K. W., DrSc DrsFarm *Utrecht*

.....

Coetzee, M., BSc

2 Temp. Lectrs., 1 Asst.

Prof.  
Lectr.  
Lectr.

### Philosophy

Stoker, H. G., MA *S.A.*, DPhil *Cologne*

Taljaard, J. A. L., MA *S.A.*, DPhil *V.U.Amst.*

Du Plessis, P. G. W., MA

Prof.  
Sr. Lectr.  
Lectr.

### Physical Education

Smith, D. P. J., BA MEd DPhil *S.A.*, Dipl

Turn-, Sport- u. Gymn-Lehrer *Berl.*

Bosman, J. S. K., BPED BED

Schoeman, Johanna M., BA

Putter, W. J., BA

1 Temp. Asst.

Prof.  
Lectr.  
Lectr.  
Jr. Lectr.

### Physics

Stoker, P. H., BSc *S.A.*, MSc *Cape T.*,  
DSc *V.U.Amst.*

Prof.

Meyer, M. A. du T., BSc *S.A.*, MSc *Cape T.*,  
DSc *T.H.Delft* Sr. Lectr.  
De Beer, J. F., BSc *S.A.*, MSc *Stell.*,  
DSc Lectr.  
.....

1 Instrument Maker, 2 Temp. Assts., 7 Jr.  
Demrs.

### Physiology

Hamersma, P. J., DSc *Pret.* Prof.  
Pretorius, P. J., MSc Lectr.

**Politics**, see Law and Pol.

### Psychology

Deppe, P. C. W., MB BCh *Rand* Hon. Prof.  
Hattingsh, J. M., MA DPhil *S.A.* Prof.  
Schoeman, C. F., BA(SS) MA *S.A.*,  
DPhil *Amst.* Sr. Lectr.  
Strümpfer, D. J. W., BSc *S.A.*, PhD *Purdue*,  
MSc Lectr.  
Roode, C. D., MA Jr. Lectr.  
1 Temp. Asst.

### Semitic Languages

Kroeze, J. H., DrTheol LittSemDrS Prof.  
*V.U.Amst.*  
Du Plessis, S. J., MA *Pret.*, BA MDiv  
DD *S.A.*, ThM Sr. Lectr.

### Social Work

Venter, C. N., MSocSc Sr. Lectr.

### Sociology

Du Preez, D. C. S., MA *Rand*,  
DPhil *V.U.Amst.* Prof.  
van der Walt, J. P., MA DPhil Sr. Lectr.

### Statistics

De Wet, J. M., MSc *S.A.*, BSc(Eng) *Rand*,  
PhD *Lond.* Prof.  
Venter, J. H., BSc Lectr.

### Theology

Du Toit, S., MA *Pret.*, MDiv DD *S.A.* Prof.  
Snyman, W. J., BA BD *S.A.*,  
TheolDrS *V.U.Amst.* Prof.  
Jooste, J. P., BA DD *S.A.* Prof.

de Klerk, P. J. S., BA *S.A.*, ThD  
*V.U.Amst.* Prof.  
van der Walt, S. P., MA BD DPhil *S.A.* Prof.  
Du Plessis, H., MA *S.A.* Prof.

### Zoology and Hygiene

Eiselen, G. T. S., MSc *Rand*,  
DrRerNat *Jena* Prof.  
Van Eeden, J. A., DSc *Stell.* Sr. Lectr.  
Ryke, P. A. J., DSc *Stell.* Sr. Lectr.  
Van Eeden, D., BSc *S.A.*, MSc Lectr.  
Jr. Lectr.  
5 Demrs.

### AFRICA SEMINAR

Coetzee, J. H., MA *S.A.*, DPhil Dir.

### CONSERVATOIRE

Roode, M. C., BMus *S.A.*  
Prof., Hd. of Conservatoire  
Le Roux, Mrs. Doris S. (Piano) Teacher  
Pretorius, Mrs. Thelma (Piano & Organ) Teacher  
Swanepoel, Mrs. Anna D. (Piano) Teacher  
Potgieter, Mrs. Marlis (Piano & Organ) Teacher  
Levisseur, Mrs. Maria C. (Singing) Teacher  
Kloppers, J. J. K., BMus (Piano & Organ) Teacher  
12 Assts.†

### INSTITUTE FOR ECONOMIC RESEARCH

Erasmus, D. P., DComm *Pret.*, MComm Dir.

### PLANT PHYSIOLOGY RESEARCH INSTITUTE

Botha, P. J., MSc PhD *S.A.* Dir.

### ZOOLOGY RESEARCH INSTITUTE

Van Eeden, J. A., DSc *Stell.* Dir.

### INSTITUTE FOR SOUTH AFRICAN MUSIC

van der Walt, J. J. A., BSc *S.A.*, MMus  
DPhil *Cologne* Dir.

## ADMINISTRATIVE AND OTHER STAFF

Organizer: C. J. H. Schutte, BComm *S.A.*  
Accountant: P. J. de Wet, BComm. Extension  
Officer: D. J. Eloff, BA(SS) *S.A.* Warden of

Residences: C. P. van der Walt, MA *S.A.*  
Supt. of Grounds and Bldgs.: M. G. L. Bosman.

## INSTITUTIONS IN CO-OPERATION WITH THE UNIVERSITY

THEOLOGICAL SCHOOL OF THE REFORMED  
CHURCH IN SOUTH AFRICA (f. 1869), P.O. Box  
2004, North Bridge, Potchefstroom (tel.: 159,  
Potchefstroom). Rector: Prof. S. du Toit, MA

*Pret.*, MDiv DD *S.A.* A trg. instn. for the  
ministry of this Church. Admission qualif.: a  
1st degree of this univ. While in trg. at the sch.,  
students also take a degree in theol. at the univ.

POTCHEFSTROOM COLLEGE OF EDUCATION (f. 1919), P.O. North Bridge, Potchefstroom (tel.: 261, Potchefstroom). Rector: Prof. J. J. Mulder,

BA BSc MEd S.A. A trg. instn. for primary and secondary sch. teachers, the latter taking simultaneously a 1st degree at the univ.

## AFFILIATED INSTITUTION

CONSERVATOIRE OF THE POTCHEFSTROOM UNIVERSITY FOR CHRISTIAN HIGHER EDUCATION (f.

1950). Hd.: Prof. M. C. Roode, BMus S.A. Address and Telephone same as Univ.

## GENERAL INFORMATION

Founded in 1869, the present univ. was incorporated in 1921 as a constituent coll. of the Univ. of South Africa under the name of 'The Potchefstroom University College'. An amendment to the Potchefstroom Univ. Coll. Private Act was passed by parliament in 1933, reinstating the original name Potchefstroom University College for Christian Higher Education. In 1950 parliament passed a private act whereby the coll. became an independent univ. as from March 17, 1951.

**CONSTITUTION.** The univ. consists of the chancellor, vice-chancellor, principal, council, senate and convocation; the profs., lectrs. and other teachers; and the students. The chancellor, elected by the council, is the head of the univ., and as such is empowered to confer all degrees. The chief academic and admin. officer is the principal, who is *ex officio* a member of the council, and chairman of the senate. The hds. of academic depts. and hds. of res. insts. are members of the senate. The council, which elects its own chairman, is the governing body of the univ. and administers its affairs and property.

**INCOME (1959).** Total income, £373,590 (govt. grant, 76.1 per cent.; annual grants from public bodies, 0.8 per cent.; interest on investments, rent received and sundry income, 3 per cent.; fees, 20.1 per cent.).

**FACULTIES AND DEANS.** Arts, Prof. H. I. Swanepoel (law); *econ. scis.*, Prof. D. J. Viljoen (comm.); *educn.*, Prof. H. J. J. Bingle; *sci.*, Prof. A. P. Goossens (bot.); *theol.*, Prof. J. P. Jooste.

**LIBRARY.** Ferdinand Postma library: 131,097 vols.; 1793 magazines and periodicals.

**LABORATORIES.** Appl. maths.; bot.; chem. and pharm.; dom. sci.; geog.; geol.; phys.; physiol.; psychol.; phys. educn.; zool.

**ADMISSION.** See Appendix II. Students who are not qualified, or who do not desire, to take an ordinary degree or dipl. course may be admitted to attend classes, provided the prof. or lectr. concerned is satisfied that they can profit by the instructn. given.

**FIRST DEGREES.** 3 yrs.—BA (4th yr. for hons. in Afrikaans-Nederlands, Bantu langs., Bible, econ., Engl. lang. & lit., ethnol., French, geog., German, Greek, hist., hist. & appreciation of art, hist. of music, Latin, maths., native admin.,

philos., phys. educn., pol., psychol., Roman law, Roman-Dutch law, Semitic langs., soc. work, sociol.), BMus (4th yr. for hons.) BSc (4th yr. for hons. in appl. maths., bot., chem., dietetics, geog., geol., hyg., maths., phys., phys. educn., physiol., psychol., statl. maths., theory of stats., zool.); BComm (4th yr. for hons. in acctg., comm., cost acctg., econ., psychol.); 4 yrs.—BSc(Dom), BSc(Dietetics), BSc(DomScTeachers'); 5 yrs.—BSc(Pharm) (6th yr. for hons.).

**HIGHER DEGREES.** MA, MMus, MSc, MSc (Pharm), MComm, LLB, BEd—2 yrs. from bachelor's degree; ThB—4 yrs. from BA; ThM, MEd—1 yr. from ThB and BEd; DLitt, DPhil, DSc, ThD, DEd, DComm—2 yrs. from corresponding master's degree; DMus—3 yrs. from MMus; LLD—2 yrs. from LLB.

**HONORARY DEGREES.** Any master's or doctor's degree of the univ. may be awarded as an honorary degree.

**DIPLOMAS.** Teacher's dipl. in music; teacher's dipl. in sch. music; dipl. for church organists; teacher's dipl. in dom. sci.; univ. educn. dipl. (non-grad.)—3 yrs.; artist's dipl. in music—1 yr. after teacher's dipl. in music. Dipl. in phys. educn.—1 yr. after teacher's dipl. Univ. educn. dipl.—1 yr. postgrad. Lower univ. dipl. in library sci.—2 yrs.; univ. dipl. in library sci.—1 yr. postgrad.; dipl. in dom. sci.—1 yr. postgrad.; dipl. in dietetics—1 yr. postgrad.

**FEES.** Registration fee, £3 p.a. Composite fees: bachelor's degrees, from £43 to £56 (annually); ThB, £28 (annually); hons. bachelor's degrees and BEd, from £47 to £52 (for course). Master's degrees, £27 (for course) ThM, £47 (for course); doctor's degrees, £59 (for course). Dipl. courses from £34 to £51 (annually).

**STUDY LEAVE AND FURLOUGH.** Academic staff may be granted 6 mos.' leave (3 mos. full pay, 3 mos. half pay) after each period of service of 6 yrs.

**ACADEMIC YEAR.** 2 semesters: Feb. to end of June, Aug. to early Dec.

**USUAL LANGUAGE OF INSTRUCTION.** Afrikaans.

**VACATION COURSES.** Occasional short vac. courses may be offered if there is sufficient demand. Courses in co-operation (every 2nd yr.).

**BURSARIES FOR STUDENTS ENTERING THE UNIV. TO READ FOR A FIRST DEGREE.** Merit awards, from £10 to £60 p.a. for 3 yrs.; J. M. Hansen, £100 p.a. for 1 yr.; also sundry state and municipal bursaries.

**STUDENTS' RESIDENCES.** (*Address: P.U. for C.H.E., Potchefstroom.*) Fees, £90 p.a. Women: De Klerkhuis, 81 students; Piet Groblerhuis, 73; Klawerhof, 209. Men: Postmahuis, 20; Uitspan, 36; Heimat, 38; Ons Huis, 49; Dawie du Plessishuis, 146.

**STUDENTS' UNIONS.** Students' representative council is elected by the students to deal with all

student affairs. It controls a large number of clubs and organizations and is the students' official avenue of approach to authorities of the univ.

**STUDENTS' SPORT FACILITIES.** Gymnasium, swimming-bath, fields for rugby, tennis, hockey, cricket, baseball, netball, athletics, Jukskei, etc.

**PUBLICATIONS.** *Calendar* (Dec., free); *Rector's Report* (Feb., free); *Die Veteraan*, quarterly for alumni (free); *Koers* (monthly, 3s.); *Die Besembos*, *Die Pukkie*, *Die Wapad* (student publications).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Total value of all benefactions received: £22,869.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* conservatoire; extensions to Klawerhof hostel for women students and central dining-room. *Approaching completion:* extensions to library; new lab. for dom. sci., new central laundry for all hostels.

**NEW DEPARTMENTS AND CHAIRS.** Depts. of stats. and cost accounting; chair of pharmacy.

**RETIREMENTS.** Prof. D. J. du Plessis (chem.), apptd. hon. emer. prof.; Prof. J. W. Daneel (educn.).

**RESIGNATIONS.** Mrs. Susara C. G. Viviers (dom. sci.).

**HONORARY DEGREE.** *ThD*—Rev. H. J. R. du Plessis, former chairman of council.

### Statistics

#### STUDENT NUMBERS, 1960

	<i>Full-Time</i>	<i>Part-Time*</i>
Men . . .	1271	6
Women . . .	490	14
Total	1761	20

Distribution by Faculties, etc. *Arts*, 665; *econ. scis.*, 298; *educn.*, 232; *sci.*, 525; *theol.*, 61. Total: 1781.

*Included in the figures above are:—*

Postgraduate students, 477.

New admissions, 567.

Students from other countries, 13. (Country from which largest number came: Southern Rhodesia).

**DEGREES AWARDED (1959).** *Arts*: BA, 94; BMus, 5; BA (hons.), 16; BMus (hons.), 1; LLB, 8; MA, 7; MMus, 1; DLitt, 1; DPhil, 3. *Econ. scis.*: BComm, 35; BComm (hons.), 3; MComm, 1. *Educn.*: BSc(DomSciTeachers'), 1; BEd, 9; MEd, 7; DEd, 6. *Sci.*: BSc, 48; BSc(Dom), 1; BSc(Dietetics), 4; BSc(Pharm), 2; BSc (hons.), 11; BSc (hons. pharm), 1. MSc, 6; DSc, 1. *Theol.*: ThB, 17. Total number of first degrees awarded, 190.

**DIPLOMAS AWARDED (1959).** Univ. educn. dipl., 36; univ. educn. dipl. (non-grad.), 2; univ. lower educn. dipl., 5; teacher's dipl. in dom. sci., 4; teacher's dipl. in music, 4; dipl. for church organists, 1; dipl. in libr. sci., 7; lower dipl. in libr. sci., 5.

**CERTIFICATES AWARDED (1959).** Music, 12.

\* Part-time students are those not studying for a degree, a diploma or a certificate. All occasional students are included in this category.

# UNIVERSITY OF PRETORIA\*

Incorporated 1930; previously established as Transvaal University College, 1910

*Postal Address* : Brooklyn, Pretoria, Transvaal, South Africa

*Cables and Telegrams* : Puniv, Pretoria (Bentley Code)

*Telephone* : Pretoria 4-3111

CHAIRMAN OF COUNCIL—F. MEYER, BA *Cape T.*, MSc *Stell.*, DrEng *Berl.*, Hon. DSc(Eng) *Rand*, Hon. DSc

CHANCELLOR—C. TE WATER, BA LLB *Camb.*, Hon. LLD *Rand*

VICE-CHANCELLOR AND RECTOR—C. H. RAUTENBACH, MA BD *S.A.*, Hon. DUMontr., DPhil

REGISTRAR AND FINANCIAL ADVISER—M. SMUTS, MCom(B&A)

LIBRARIAN—A. J. VAN DEN BERGH, BA DipLibr

## TEACHING STAFF

[† = Part-Time]

**Accountancy**, see Commerce and Public Administration

**Afrikaans Language and Literature**, see Dutch, Afrikaans and Germanic Philol. and Lit.

**Agriculture**, see below

**Anthropology**, see Soc. Anthropol.

**Architecture and Quantity Surveying**

Meiring, A. L., BA *Cape*, BArch *Liv.*, FRIBA (Design, Bldg. Constructn., Acoustics) Prof.

Louw, T. H., BSc(QS) (Quantities, Mensuration, Professional Practice, Analysis of Bldg. Costs, Valuations & Reports, Estimates & Bldg. Finance) Sr. Lectr.

Wepener, F. J., BArch *Rand* Sr. Lectr.

Brink, C. S., BArch *Cape T.*, DipTP *Liv.* (on leave) Sr. Lectr.

Burger, A. P., BArch 13 Lectrs.† and 6 from other Univ. Depts. Lectr.

**Banking**, see Commerce and Public Administration

**Bantu Studies**

Engelbrecht, J. A., MA *Stell.*, PhD *Berl.* (Bantu Langs.) Prof.

van Wyk, E. B., MA Sr. Lectr.

de Clercq, J., MA *Stell.* Lectr.

Groenewald, P. S., BA Jr. Lectr.

2 Demrs.

**Biochemistry**

Grotepass, F. W. K., DrPhil *Gött.* Sr. Lectr.  
Smit, Z. M., MScAgr Lectr.  
1 Tech. Asst.

**Botany and Biology**, see also Veterinary Science

Grobbelaar, N., BSc *Rhodes*, PhD *Corn.*, MSc (Plant Physiol. & Plant Biochem.)  
Bertha Stoneman Prof.

Schweickerdt, H. G. W. J., BSc *S.A.*, PhD *Bonn* (General Bot.) Louis Botha Prof.

..... Sr. Lectr.

Theron, J. J., MSc *S.A.*, DPhil *Berl.* Lectr.

van der Schyff, H. P., BSc *S.A.*, DSc *Potchef.*, MSc Lectr.

Tager, J. M., PhD *Calif.*, BSc(Agric) Lectr.

..... Lectr.

..... Lectr.

1 Jr. Lectr., 3 Tech. Assts.

**Chemistry, Inorganic and Analytical**

Schilz, W. E., MSc LLB *S.A.*, DIC, PhD *Munich* Prof.

Liebenberg, C. J., MSc *Stell.*, DSc Sr. Lectr.

Norval, S., BSc Lectr.

Böhmer, R. G., MSc Lectr.

Wittmann, G. T. W., MSc *Stell.*, UED *Natal* Lectr.

2 Jr. Lectrs., 6 Tech. Assts.

**Chemistry, Organic**

de Waal, H. L., MSc *Stell.*, DrPhil *Bonn*, DSc Prof.

\* Member of the Association of Universities of the British Commonwealth



Serfontein, W. J., MSc *Stell.*,  
DrPhilNat *Ley.*  
Wiechers, A., MSc  
2 Tech. Assts.

### Chemistry, Physical

Pretorius, V., DPhil *Oxon.*, MSc Prof.  
Clark, F. L., MSc *Sheff.*, DSc *S.A.* Hon. Prof.  
de Wet, J. F., DSc Sr. Lectr.  
Krynauw, G. N., MSc Lectr.  
2 Tech. Assts.

### Classics, see also Hist.

Gonin, H. L., BA *Stell.*, MA *Oxon.*,  
LittD *Ley.*, LLB (Latin) Prof.  
Pistorius, P. V., MA BD *Stell.*, LittD&Phil  
*Ley.*, DLitt  
(on leave) (Hellenic & Patristic  
Greek) Prof.  
de Kock, E. L., LittD&Phil *Ley.*, BD MA  
(Greek) Sr. Lectr.  
de Wet, B. X., MA (Greek) Lectr.  
..... (Latin) Sr. Lectr.  
la Grange, L. J. D., BA (Latin) Lectr.

### Commerce and Public Administration, see below

### Dentistry, see below

### Domestic Science

Ackerman, Esther M., MA *Col.*, MSc *Corn.*,  
BScDomSc Sr. Lectr.  
van den Berg, Anna S., MS *Harv.*,  
BSc(Dietet) Sr. Lectr.  
Muller, Johanna M., BScDomSc Lectr.  
Redelinghuys, Mrs. Annette, BScDomSc Lectr.  
2 Jr. Lectrs., 1 Lectr.†

### Dutch, Afrikaans and Germanic Philology and Literature

Louw, S. A., LittDrs *Utrecht*, MA DLitt  
(on leave) (Afr. & Dutch Lang.)  
Pretoria City Council Prof.  
Kritzinger, M. S. B., MA DLitt *S.A.*  
(Afrikaans Lit.) Prof.  
Buning, T., BA BSc *S.A.*, MA DLitt MEd  
(Dutch Lit.) Prof.  
Bingle, J. P., MA HED *S.A.*  
(Afrikaans Lang.) Sr. Lectr.  
Scholtz, H. v. d. M., MA *S.A.*, DLitt&Phil  
*Amst.* (on leave) (Afrikaans Lang.) Sr. Lectr.  
Grové, A. P., DLitt *S.A.* Sr. Lectr.

### Economics, see Commerce and Public Administration, below

### Education, see below

### Engineering, see below

### English

Titlestad, R. M., MA *S.A. & Oxon.*,  
LLB *S.A.* Pretoria City Council Prof.  
Sabbagha, N. G., MA *S.A. & Oxon.* Sr. Lectr.  
Knowles-Williams, Gweneth, MA DLitt  
Sr. Lectr.  
van Huysteen, J. A., BA *Rand*  
Lectr.  
Jeffries, Mrs. Kathleen, MA *S.A. & Oxon.*  
Lectr.  
Bryant, E. P., BA *Cape T.* Lectr.  
1 Jr. Lectr.

### Entomology, see Agriculture, below

### French

Viljoen du Chaillou, Mrs. Madeleine G. E. F.,  
BA *Lond.*, MA Sr. Lectr.  
Mönnig, Mrs. Agneta A. Lectr.

### Geography and Economic Geography

Scheepers, G. H., BA *S.A.*, DSc *Hamburg*,  
MSc Prof.  
Hugo, C. F., BA *S.A.*, MA DPhil *Stell.* Sr. Lectr.  
Vorster, J. H., MSc Sr. Lectr.  
1 Tech. Asst.

### Geology

Willemsse, J., PhD *Zür.*, MSc Prof.  
Visser, D. J. L., DSc *Stell.*, FGS Sr. Lectr.  
Zagt, S., MSc Sr. Lectr.  
Snyman, C. P., MSc Lectr.  
2 Tech. Assts.

### German

Mostert, L. C., BA *Stell.*, PhD *Hamburg*  
(German Lit.) Prof.  
Leue, J. A. E., DPhil *Bonn*, BA Sr. Lectr.  
..... Lectr.

### Hebrew

van Selms, A., ThD *Utrecht* Prof.  
Newman, J., MA *Manc.*, DLitt  
(Post-Biblical Jewish Lit.) Hon. Prof.  
van Zyl, A. H., DD MA Lectr.  
Labuschagne, C. J., ThDrs *Gron.*, BD Lectr.

### History

Pelzer, A. N., MA DPhil (on leave) Prof.  
van Alphen, G., DLitt *Ley.*  
(on leave) (H. of Afrikaans &  
Neth. Culture) Prof.  
van der Westhuysen, H. M., MA DLitt  
(H. of Art) Prof.  
Spies, F. J. du T., MA *S.A.*, LittD *Ley.* Sr. Lectr.  
..... Sr. Lectr.  
Nilant, F. G. E., PhD *Rand*, MA Lectr.  
1 Jr. Lectr.

### History, Economic, see Commerce and Public Administration, below

### Industrial Economics, see Commerce and Public Administration, below

### Land Surveying, see Engineering, below

**Law, see below****Library Science**

Coetzee, P. C., DPhil *S.A.*, MA      Sr. Lectr.  
Lectr.

**Mathematics**

Zietsman, P. J., MSc BEd      (on leave) Prof.  
van Warmelo, N. J., MSc      Sr. Lectr.  
Hattingh, D. J., BSc *Rand*, MSc      Sr. Lectr.  
de Wet, C. L., MSc *Potchef.*      Sr. Lectr.  
.....      Lectr.  
Viljoen, G., MSc *O.F.S.*      Lectr.  
3 Jr. Lectrs.

**Mathematics, Applied**

Beezhold, W. F., DSc *Utrecht*, MSc      Prof.  
Geldenhuys, J. J., MSc HED      Sr. Lectr.  
Kruger, C. J. v. Z., MSc      Sr. Lectr.  
.....      Lectr.  
de Swardt, J. J., BSc      Lectr.  
Van Zyl, W. R., BSc HED      Lectr.  
2 Jr. Lectrs.

**Medicine, see below****Metallurgy, see Engineering, below****Music**

Malan, J. P., BA BMus *S.A.*, Phil *Vienna*  
Prof., Dir. Academy of Music

**Native Administration, see Soc. Anthropol.****Philosophy**

Oberholzer, C. K., BA DEd *S.A.*, MA DPhil  
DEd      Prof.  
Dreyer, P. S., DrsPhil *Gron.*, MA BD Phil  
Co-Prof.  
Oberholzer, Roline E., DPhil      Lectr.

**Physics**

Verleger, H., DPhil *Giessen*, DrRerNatHabil  
*T.H.Darmstadt*      Prof.  
van der Merwe, J. H., PhD *Brist.*,  
MSc *Stell. & Pret.*      (on leave) Co-Prof.  
Prinsloo, L. A., DSc      Sr. Lectr.  
Koen, J. G., BEd *Potchef.*, DSc      Sr. Lectr.  
Lemmer, H. R., MSc *O.F.S.*, DPhil *Oxon.*  
Sr. Lectr.  
van Zyl, G. J., MSc *Stell.*      Lectr.  
Friedland, E. K. H., MSc      Lectr.  
Gaigher, H. L., MSc      (on leave) Lectr.  
Prekel, H. L., MSc      Lectr.  
.....      Lectr.  
1 Jr. Lectr., 7 Tech. Assts.

**Physiology, see Medicine and Veterinary Science, below****Political Science, see Commerce and Public Administration, below****Psychology**

Schlebusch, B. J., MA DPhil *Stell.*      Prof.  
Swiegers, D. J., MA *Stell.*, DPhil      Sr. Lectr.  
Gouws, D. J., BA *S.A.*, MSc *Potchef.*,  
BSc DPhil      (on leave) Sr. Lectr.  
Weyers, J. L., BA MCom(B&A)      Lectr.  
1 Jr. Lectr.

**Public Administration, see Commerce and Public Administration, below****Quantity Surveying, see Archit. and Quant. Surv.****Semitic Languages, see Hebrew****Social Anthropology and Applied Social Anthropology (Native Administration)**

Coertze, P. J., MA DPhil *Stell.*      Prof.  
Eloff, J. F., MA(SocA)      Sr. Lectr.  
de Villiers, C. M., BA *Stell. & Pret.*      Lectr.  
Coertze, R. D., MA      Lectr.  
1 Jr. Lectr.

**Sociology and Social Work**

Cronjé, G., MA *Stell.*, Litt&PhilDr *Amst.*      Prof.  
Pieterse, J. E., MA(SW) DPhil      Sr. Lectr.  
Scholten, W. H. J., DPhil      Sr. Lectr.  
van Niekerk, Susanna E., MA(SW)      Lectr.  
.....      Lectr.  
Loedolff, J. F., BD DPhil      Lectr.  
4 Jr. Lectrs.

**Speech Science and Logopedics**

Pienaar, P. de V., MA *Rand*, PhD *Hamburg*      Prof.

**Statistics, see Commerce and Public Administration, below****Theology, see below****Veterinary Science, see below****Zoology**

Eloff, F. C., DSc      Prof.  
Malan, D. J., MSc *S.A.*      Sr. Lectr.  
de Graaff, G., MSc *Rand*      Lectr.  
Nel, J. A. J., BSc *Stell.*      Lectr.  
2 Jr. Lectrs., 1 Tech. Asst.

**Zootechnics, see Veterinary Science, below****AGRICULTURE****Agricultural Biochemistry**

Potgieter, D. J. J., PhD *Calif.*, MSc(Agric)      Prof.  
de Villiers, V., BSc(Agric)      Sr. Lectr.  
Voss, H. C., DrPhil *Bonn*      Lectr.

**Agricultural Chemistry, see Soil Technol.****Agricultural Economics**

Prof.

Tomlinson, F. R., MScAgric *Stell.*,  
 PhD *Corn.*, DSc(Agric) Co-Prof.  
 Smith, D. J. B., MScAgr *Iowa*, MSc(Agric) Sr. Lectr.  
 Gregory, J. J., MA *Chic.*, MSc(Agric) Sr. Lectr.  
 Kotze, H. A., MSc(Agric) Lectr.

### Agricultural Education and Extension

..... Prof.  
 Kolbe, F. F. H., BSc(Agric) Sr. Lectr.  
 Becker, J. H., BSc(Agric) Sr. Lectr.

**Agricultural Engineering**, see Engineering,  
 below

### Agricultural Entomology (and Entomology in Faculty of Science)

Mathee, J. J., PhD *Camb.*, MSc Prof.  
 Janse, A. J. T., DSc *S.A.*  
 (Taxonomy) Hon. Prof.  
 Smit, C. J. B., DSc(Agric) Sr. Lectr.  
 de Villiers, W. M., BSc Lectr.

### Agronomy and Biometry

Haylett, D. G., MSc *Ill.*, PhD *Corn.* Prof.  
 Nel, P. C., MScAgric *Stell.* Sr. Lectr.  
 Human, J. J., MSc(Agric) Lectr.

### Animal Husbandry

Bonsma, J. C., MSc(Agric) (Animal H.) Prof.  
 Louw, G. N., BScAgric *Stell.* Sr. Lectr.  
 Snyman, P. S., BVSc Temp. Sr. Lectr.  
 Lombard, J. H., BSc(Agric) Lectr.  
 Hirzel, R., BScAgric *Stell.*, MSc(Agric)  
 (Animal H.) †Lectr.

### Dairying

Lombard, S. H., MScAgric *Stell.*, PhD *Ill.*  
 Union-Castle Prof.  
 de Kock, A. A., BSc(Agric) Sr. Lectr.

**Ecology**, see Pasture Res. and Ecol.

### Genetics

Hofmeyr, J. D. J., MScAgric *Stell.*,  
 PhD *Corn.* & *S.A.* Prof.  
 ..... Sr. Lectr.  
 Geerthsen, J. M. P., BScAgric *Stell.* Lectr.

### Horticulture

Oberholzer, P. C. J., PhD *Arizona*,  
 MSc(Agric) Prof.  
 von Staden, D. F. A., BSc(Agric) Sr. Lectr.

### Pasture Research and Ecology

..... Prof.  
 Pienaar, A. J., BSc *Potchef. & Natal* Sr. Lectr.  
 Rabie, J. W., BScAgric *Stell.*,  
 MScAgric *Natal* Sr. Lectr.  
 Grunow, J. O., MSc(Agric) Lectr.

### Plant Pathology and Microbiology

le Roux, P. M., PhD *Wis.*, MSc(Agric) Prof.  
 Lategan, P. M., DSc(Agric) (on leave) Sr. Lectr.  
 Rabie, C. J., MS *Wis.*, BSc(Agric) Sr. Lectr.  
 Steyn, P. L., BSc Lectr.

**Poultry**, see also Veterinary Science (p. 755).

..... Prof.  
 ..... Sr. Lectr.  
 Erasmus, J., MSc(Agric) Sr. Lectr.

### Sheep Husbandry and Wool Technology

Joubert, D. M., PhD *Camb.*, MSc(Agric) Prof.  
 Nel, J. W., BScAgric *Stell.* Sr. Lectr.

### Soil Technology

Fölscher, W. J., PhD *Calif.*, MSc Prof.  
 Theron, J. J., BSc(Agric) *S.A.*, PhD *Calif.*  
 Emer. Prof.  
 van der Watt, H. v. H., PhD *Calif.*,  
 BSc(Agric) Sr. Lectr.  
 Oberholster, R. E., BSc(Agric) Sr. Lectr.

## COMMERCE AND PUBLIC ADMINISTRATION

### Accountancy

Hoek, P. W., BCom Prof.  
 Wiehahn, B. S., BCom MBA *Harv.*,  
 DBA Co-Prof.  
 Zevenbergen, A. P., MCom Sr. Lectr.  
 ..... Sr. Lectr.  
 du Plessis, S. C. V., BCom *S.A.*, MCom Lectr.  
 ..... Lectr.  
 3 Temp. Lectrs.

### Banking (Commerce, Banking and Economics)

Wijnholds, H. W. J., JurDrEcon *Utrecht* Prof.  
 Jacobs, A. S., DCom Sr. Lectr.

### Commerce and Industrial Economics

Reynders, H. J. J., MBA *Harv.*, DCom Prof.  
 Goudriaan, J., DrIr *T.H.Delft* Emer. Prof.  
 Lustig, H., EconCand *Amst.*, MCom(B&A)  
 Sr. Lectr.  
 ..... Lectr.

### Economic Theory and History

Franzsen, D. G., MA DPhil *Stell.* Prof.  
 Krogh, D. C., BCom MA *Cape T.*,  
 EcDrs *Amst.*, DCom Sr. Lectr.  
 Stadler, J., MCom *Stell.* Lectr.

**Mercantile Law**, see Law, below

### Public Administration and Political Science

Gey van Pittius, E. F. W., MA *S.A.*,  
 PhD *Lond.* Prof.  
 Cloete, J. J. N., MAdmin DPhil Sr. Lectr.  
 Niewoudt, C. F., MA Lectr.  
 ..... Lectr.

**Statistics**

de Loor B., MSc *S.A.*, PhD *Amst.* Prof.  
 Stoker, D. J., MSc *S.A. & Stell.*,  
 PhD *Amst.* Sr. Lectr.  
 Meiring, F. J., MCom Lectr.

**DENTISTRY**

**Conservation and Orthodontics**

Schoeman, P. J., BDS *Rand*, BSc Prof.  
 Williams, E. G., BDS HDD *Rand* Sr. Lectr.  
 de Villiers, J. F. v. d. S., MDS DPD *Rand*,  
 CertOrthod *Col.* †Sr. Lectr.  
 Ferreira, Maryna R., BSc *Stell.*, BChD Lectr.  
 Stead, J. H. C., LDS Lectr.  
 Prins, F. X., MSc *Stell.*, BChD Lectr.  
 Grobler, M., BChD Lectr.  
 5 Lectrs.†, 2 Clin. Assts.

**Dental Pathology and Histo-Pathology**

de Jager, C. L., BA *S.A.*, BDS *Rand* Prof.  
 Theron, J. A., MB ChB BChD Sr. Lectr.  
 1 Lectr.†

**Oral Surgery**

Snyman, P. C., BDS *Rand*, FDSRCSEd  
 Goldin, H., DDS *Mich.* Sr. Lectr.  
 Versluis, J. J., BDS *Rand* †Sr. Lectr.  
 4 Lectrs.†, 1 Clin. Asst.†, 1 Tech. Asst.

**Orthodontics**, see Conservation

**Prosthetics**

du Plessis, G. T. C. F., BSc *S.A.*,  
 DDS *Mich.* Prof., †Hd. of Dept.  
 Barrowman, T. R., BDS *Rand*, BA Sr. Lectr.  
 van Rooy, H. K., BDS *Rand*, BSc *S.A.* Lectr.  
 ..... Lectr.

**EDUCATION**

**Educational Psychology**

Nel, B. F., BA DPhil *S.A.*, DrsPed  
 Litt&PhilD *Amst.*, MEd Prof.  
 Sonnekus, M. C. H., BCom DEd Sr. Lectr.  
 ..... Lectr.  
 1 Tech. Asst.

**Educational Sociology**

Nel, B. F., BA DPhil *S.A.*, DrsPed  
 Litt&PhilD *Amst.*, MEd Prof.  
 du Plessis, P. J. J., BA *Stell.*, DEd  
 (on leave) Sr. Lectr.  
 1 Tech. Asst., 3 Lectrs.†

**General History and Theory of Education**

du Toit, J. J., DrsPed *Amst.*, DEd *Potchef.* Prof.  
 Garbers, J. G., DrsPæd Lett&PhilD  
*Utrecht*, BSc MEd Lectr.

**History of Education in South Africa**

Pelzer, A. N., MA DPhil Prof.

**Nursery School Training**

Naude, Helena J., BA(SW) BEd Lectr.

**Philosophy of Education**

Oberholzer, C. K., BA *S.A.*, MA DPhil DEd Prof.

**Physical Education**

Smit, C., BA *Cape T.*, DiplPhysEd *Berl.* Prof.  
 Schrecker, K. A., DiplPhysEd *Berl.* Sr. Lectr.  
 van der Merwe, G. W., BSc BEdPh *Stell.*,  
 MSc *Indiana* (on leave) Lectr.  
 Oertly, Gertrud, PhysEdDip *Basle* Lectr.  
 Jooste, M., BScEdPh *Stell.*, BEd Lectr.

**ENGINEERING**

**Agricultural Engineering**

Vorster, J. A., MSAE *Iowa*, BSc(Agric) Prof.  
 van Heerden, S. J. P. K., PhD(AgEng) *Mich.*,  
 MSc(AgricEng) Sr. Lectr.  
 Grobler, B. J., BSc(AgricEng) Sr. Lectr.  
 ..... Lectr.

**Chemical Engineering**

Schoeman, D. J., MSc(Eng) PhD *Rand* Prof.

**Civil Engineering**

de Vos, D. W., BSc(Eng) *Rand* Prof.  
 van Rooyen, M., BScEng *Stell.*, MS *Iowa*,  
 PhD *Prin.* Sr. Lectr.  
 von Willich, G. P. R., BSc(Eng) *Rand*,  
 ScD *M.I.T.* Sr. Lectr.  
 Van Duuren, F. A., BSc(Eng) *Rand* Lectr.  
 van Wyk, B. C., MSc(Eng) *Rand* Lectr.  
 Wessels, C. J., BSc(Eng) *Rand* Lectr.

**Electrical Engineering**

Heymann, F. G., MSc(Eng) *Rand* Prof.  
 van Niekerk, T., BSc(Eng) *Rand* Sr. Lectr.  
 Wessels, N., BScEng *Cape T.* Sr. Lectr.  
 Adendorf, K., BSc(Eng) *Rand* Lectr.  
 van Biljon, L., MSc(Eng) *Rand* Lectr.  
 Lectr.

**Land Surveying**

Maré, W., BSc(Eng) *Rand*, MSc Sr. Lectr.  
 van der Walt, J. H., BSc *S.A.* Lectr.  
 le Roux, Z. P., BSc(Eng) *Rand* Lectr.  
 Page, D., BA DipTP *Rand* Lectr.

**Mechanical Engineering**

du Toit, C. A., BSc(Eng) *Rand*, BSc Prof.  
 Botha, J. P., BSc(Eng) *Stell.*, PhD *Camb.*  
 Van Swieten, P., DipEng *T.H.Delft* Sr. Lectr.  
 Visser, J., BSc(Eng) *Rand* Sr. Lectr.  
 van der Merwe, D. F., BSc *Stell.* Lectr.  
 Lewis, W. G., BSc Lectr.  
 ..... Lectr.  
 Guldenphennig, F. W., BScEng Jr. Lectr.

**Metallurgy**

van Rooyen, G. T., BSc(Eng) *Rand*,  
ScD *M.I.T.*, MCom(B&H) Co-Prof.  
..... Lectr.

**LAW****Bantu Law**

Maré, J. A. G., BA *Stell.*, LLD Prof.

**Criminal, Constitutional and Administrative Law, Public International Law**

Schmidt, C. W. H., BA LLD *O.F.S.* Prof.  
van Rooyen, P. R., LLB †Lectr.  
2 Lectrs.†

**Mercantile Law**

Hamman, E. M., LLD *Ley.*, BA LLB Prof.  
Grosskopf, F. H., LLD *Ley.*, BA LLB  
le Roux, D. J. H., BA LLB Sr. Lectr.  
Lectr.

**Procedure and Evidence**

Loots, J. J., BA LLB †Sr. Lectr.

**Roman-Dutch Law, International Private Law, Comparative Law**

van der Merwe, N. J., BA LLB *Stell.*,  
LLD *O.F.S.* Prof.  
Nienaber, P. M., BA LLB *Stell.* Sr. Lectr.  
Joubert, C. P., LLD *Ley.*, BA LLB †Lectr.  
3 Lectrs.†

**Roman Law and Jurisprudence**

van Warmelo, P., LLD *Ley.*, BA LLB Prof.  
de Villiers, I. W. B., BA *O.F.S.*, LLB Lectr.  
2 Lectrs.†

**MEDICINE****Anæsthetics**

Kok, O. V. S., MB ChB *Cape T.*, DTM *Liv.*,  
FFARCS Prof.  
Combrinck, Mrs. Johanna E., MB  
BCh *Rand*, DA Sr. Lectr.  
La Grange, J. B., MB ChB *Cape T.* Sr. Lectr.  
4 Lectrs.†, 2 Asst. Anæsths., 4 Clin. Assts.

**Anatomy and Histology**

Muller, Mrs. Tobie, MB ChB *Cape* Prof.  
Mihalik, P., MD *Bud.* (Histol.) Sr. Lectr.  
Jonck, L. M., BChD DSc Sr. Lectr.  
van Niekierk, I. J. M., MB ChB Sr. Lectr.  
Strauss, P. J., MB ChB Lectr.  
2 Lectrs.†, 4 Tech. Assts.

**Bacteriology, see Pathol. and Microbiol.****Children's Diseases**

Davel, J. G. A., MSc *S.A.*, MA BM BCh *Oxon.*,  
DCH, MRCP, FRCSEd Prof.  
Pannall, L., MD *Rand*, DCH †Sr. Lectr.  
Fasser, E., MD *Rand* †Sr. Lectr.  
2 Lectrs.†, 3 Clin. Assts.

**Diseases of the Ear, Nose and Throat**

Hofmeyr, J. H., BSc MB ChB *Cape T.*,  
FRCSEd †Sr. Lectr.  
Swanepoel, K. J., MB BCh *Dub.*, DLO †Sr. Lectr.  
1 Clin. Asst.

**Diseases of the Eye**

Kriek, J. C., MA MB BCh *Rand* †Sr. Lectr.  
1 Lectr., 1 Clin. Asst.

**Diseases of the Skin, see Med., below****Forensic Medicine**

Loubser, C. J. N., BSc *Stell.*, BA MB  
BCh *Dub.*, MD DPH *Rand* †Prof.  
2 Temp. Lectrs.

**Gynæcology and Obstetrics**

Geldenhuijs, F. G., MB BCh *Rand*, MD Prof.  
de la Harpe, M. M., MB ChB MMed Sr. Lectr.  
Oosterhagen, P. H., MB ChB *Cape T.* Sr. Lectr.  
Krige, C. F., BA BM BCh DTM,  
FRCS Hon. Lectr.  
2 Lectrs., 3 Clin. Assts., 1 House Doctor

**History of Medicine**

Grotepas, F. W. K., DrPhil *Gött.* Hon. Lectr.

**Hospital Administration and Organization**

Hugo, H. J., MD *Dub.* Hon. Lectr.

**Infectious Diseases**

Nelson, H., MA MD BCh BAO *Dub.*, DPH  
DTM *Rand* Sr. Lectr.  
Bodenstab, A. T. B. H., MB ChB *Cape T.*,  
DPH DTH&Hy *Rand* †Lectr.  
2 Addtnl. Assts.

**Medical Ethics**

te Groen, L. J., Arts *Amst.*, Hon. MD,  
FRCOG Emer. Prof.

**Medicine**

Snyman, H. W., MB BCh *Rand*, MD *Gron.* Prof.  
Theron, Annie M., MB ChB MMed  
(Neurol.) Sr. Lectr.  
Jordaan, F. R., MB ChB MMed Sr. Lectr.  
Malherbe, L. F., BSc(Eng) MB BCh *Rand*,  
MMed Sr. Lectr.  
Kloppers, P. J., MD *Rand* †Sr. Lectr.  
du Toit, J., MB ChB *Cape T.*, MRCPed  
†Sr. Lectr.  
Findlay, G. H., BSc MB BCh *Rand*, MD  
(Diseases of the Skin) †Sr. Lectr.  
Wessels, L. M., MB BCh *Rand*, MD †Sr. Lectr.  
Ziady, F., MB ChB *Cape T.*, MD, MRCP  
†Sr. Lectr.  
1 Hon. Lectr., 5 Lectrs.†, 12 Clin. Assts.

**Microbiology**

Coetzee, J. N., MD *Cape T.* Prof.  
 Sachs, T. G., MMed *Cape T.*, MB ChB  
 Crocker, Clarice G., MSc *Rand*, PLD *S.A.* Sr. Lectr.  
 . . . . . Lectr.  
 . . . . . Lectr.

**Orthopaedics**, see Surg.**Pathological Anatomy**

Barnetson, J., MB ChB *Edin.*, DTM&H *Rand*,  
 MD Prof., Dir. Inst. of Pathol.  
 Pijper, A., MD *Ley.*, Hon. MD *Cape T.*,  
 DiplTropMed *Hamburg*, DSc Emer. Prof.  
 Pepler, W. J., BSc(Med) MD DSc Sr. Lectr.  
 de Villiers, L. M., MB ChB MMed  
 (Chem. P.) Sr. Lectr.  
 Simson, I. W., MB BCh *Rand* Lectr.  
 Kingsley, C. S., MB BCh *Rand*, MD  
 (Hæmathol.) Lectr.  
 2 Clin. Assts., 11 Tech. Assts.

**Pharmacology**

Steyn, D. G., BSc *Stell.*, DrMedVet *Vienna*,  
 DVSc Prof.  
 Botha, D., MB ChB MMed †Sr. Lectr.  
 1 Temp. Demr., 1 Tech. Asst.

**Physiology**

Meyer, B. J., MSc MEd *Stell.*, DSc MB ChB Prof.  
 Labuschagne, C. J., MSc *Stell.*, PhD *Cape T.* Sr. Lectr.  
 Rabie, J., MSc *Stell.* (on leave) Sr. Lectr.  
 Booyens, J., MSc *Potchef.*, PhD *Camb.* Lectr.  
 . . . . . Lectr.  
 2 Tech. Assts.

**Preventive and Promotive Medicine**

Strating, A., BA(SW) MCom(B&A) DPH  
 DTM Sr. Lectr.  
 Clark, B. M., DPH *Rand*, MRCP Hon. Lectr.  
 1 Lectr.†

**Psychiatry**

Iamont, A. McE., MD *Glas.* †Prof.  
 du Plessis, D., MB ChB *Cape T.* †Lectr.  
 1 Clin. Asst.

**Public Health**, see Preventive and Promotive Med.**Radio-Diagnosis**

Oosthuizen, S. F., MD *Cape T.*, DMR *Lond.*,  
 Hon. DSc *Natal*, DSc, FRCP, FFR Prof.  
 van Niekerk, J. M., MB ChB DMR Sr. Lectr.  
 Lundie, J. K., MB BCh *Rand*,  
 DMRD *Lond.* †Lectr.  
 . . . . . Lectr.  
 5 Clin. Assts.

**Radio-Therapy**

Fichardt, T., DMRE *Camb.*, MD DSc,  
 MRCP Sr. Lectr., Hd. of Dept.  
 Jacobs, E. L., MB ChB *Edin.*, BA *S.A.*,  
 DMR DSc †Sr. Lectr.  
 Weinbren, M., BSc *S.A.*, DMRE *Camb.*,  
 FFR Hon. Lectr.

**Surgery**

Derksen, C., MB ChB *Cape T.*, MCh Prof.  
 Schulenburg, C. A. R., MB ChM *Cape T.*,  
 MD, FRCS (Surg. & Anat.) †Sr. Lectr.  
 Besselaar, H. J., MD *Zür.* †Sr. Lectr.  
 Erasmus, J. F. P., MB MCh *Cape T.*,  
 MD *Rand* (Neuro-Surg.) †Sr. Lectr.  
 Bremer, J. K., MB ChB *Cape T.*, FRCS  
 van der Spuy, J. C., MB ChM *Rand* †Sr. Lectr.  
 Botha, D. J., MB ChB MMed Lectr.  
 du Toit, J. G., MB ChM *Cape T.*,  
 FRCSEd (Orthop.) Sr. Lectr.  
 Marais, T. J., MB ChB *Cape T.*,  
 MMedSurg †Sr. Lectr.  
 Maas, I. P., MB ChM †Sr. Lectr.  
 7 Lectrs.†, 11 Clin. Assts., 1 Tech. Asst.

**Venereal Diseases**

2 Lectrs.†

**THEOLOGY****(a) Dutch Reformed Church of Africa**

Geyser, A. S., MA DD  
 (New Test. Exegesis & Theol.) Prof.  
 Mulder, E. S., BA BD *S.A.*, TheolDrs *Utrecht*,  
 DD *Gron.*  
 (Old Test. Exegesis & Theol.) Prof.  
 Pont, A. D., DD *Utrecht*, BD MA  
 (Hist. of Christianity) Prof.  
 van Zyl, F. J., BA DD  
 (Philos. of Religion & Missions) Prof.  
 Engelbrecht, B. J., DD *Gron.*, BA BD  
 (Christian Ethics & Dogma) Prof.

**(b) Dutch Reformed Church**

Groenewald, E. P., MA *Stell.*, ThD *Amst.*  
 (New Test. Exegesis & Theol.) Prof.  
 Kritzing, J. H., MA *Stell.*, ThD *Amst.*  
 (Old Test. Exegesis & Theol.) Prof.  
 Marais, B. J., MA DPhil *Stell.*, MTh *Prin.*  
 (Church Hist., Hist. of Dogma &  
 Canon Law) Prof.  
 du Preez, A. B., MA *Stell.*, ThD *Amst.*  
 (Philos. of Religion, Dogma &  
 Christian Ethics) Prof.  
 du Toit, H. D. A., BA *Cape T.*, ThDrs *Amst.*,  
 DD (Philos. of Religion & Missions) Prof.

**VETERINARY SCIENCE****Poultry Diseases**

Abrams, L., BVSc Sr. Lectr.  
 Lectr.

**Veterinary Anatomy**

de Boom, H. P. A., BVSc Prof.  
 le Roux, J. M. W., DrMedVet *Hanover*,  
 BVSc Sr. Lectr.  
 Gerneke, W. H., BSc *S.A.* Lectr.

**Veterinary Infectious Diseases**

Alexander, R. A., BSc(Agric) *S.A.*,  
 Hon. DSc *Cape T.*, DVSc (Virol.) Prof.  
 Neitz, W. O., DVSc (Protozool.) Co-Prof.  
 van Drimmelen, G. C., DVSc  
 (Bacteriol.) Co-Prof.  
 Jansen, B. C., BVSc (Bacteriol.) Sr. Lectr.  
 Diesel, A. M. (Vet. State Med.) Sr. Lectr.  
 Weiss, K. E., DVSc (Protozool. & Virol.) Lectr.

**Veterinary Medicine**

an der Walt, K., BVSc Prof.  
 Malherbe, W. D., BVSc Sr. Lectr.  
 Muller, C. J., BSc *Stell.*, BVSc  
 (Pharmacol.) Sr. Lectr.  
 Adelaar, T. F., BVSc (Toxicol.) Sr. Lectr.

**Veterinary Parasitology**

du Toit, R. M., DVSc *S.A.* Prof.  
 Reinecke, R. K., DVSc Sr. Lectr.

**Veterinary Pathology**

Schulz, K. C. A., BSc BVSc *S.A.*,  
 DrMedVet *Leip.* Prof.  
 Smit, J. D., BVSc Sr. Lectr.  
 van den Heever, L. W., BVSc Sr. Lectr.

**Veterinary Physiology**

Clark, R., DVSc Prof.  
 ..... (Chem. Pathol.) Co-Prof.  
 Malloch-Brown, J. M. M., BVSc Sr. Lectr.  
 Louw, J. G., DSc *Stell.* (Biochem.) Sr. Lectr.  
 ..... Lectr.

**Veterinary Surgery and Obstetrics**

Hofmeyr, C. F. B., BVSc Prof.  
 Irwin, D. H. G., BVSc Sr. Lectr.  
 van Heerden, J. S., BVSc Sr. Lectr.

**Zootechnics**

Bisschop, J. H. R., BSc(Agric) BVSc *S.A.* Prof.  
 Sutton, G. D., BVSc  
 (Animal Management & Hyg.) Sr. Lectr.  
 Kellermann, J. H., DSc(Agric) *Stell.*,  
 PhD *Wis.* (Animal Nutr.) Sr. Lectr.  
 Morris, J. J., BSc *S.A.*  
 (Veld Management) Sr. Lectr.

In addition to the above, there is a considerable number of Demrs., chiefly in the Fac. of Sci.

**ADMINISTRATIVE AND OTHER STAFF**

UNIVERSITY OFFICE. Asst. Registrar: C. H. Stuart, MAdmin. Accountant: J. P. Nel, MCom (B&A). Asst. Accountant: B. Q. Wessels, BCom *Stell.*, MCom(B&A). Liaison Officer: C. H. Cilliers, BSc BCom. Technical Adviser: F. W. Meerkotter. Student Counsellor: J. A. J.

van Vuuren, MEd *Potchef.*, BSc MA BEd. Sec. to Sport Cttee.: F. J. Senekal, BA(EdPhys) HED.

CHAPLAINS. Rev. J. E. Potgieter, Rev. C. I. van den Berg.

**GENERAL INFORMATION**

Founded 1908, when univ. classes in arts, sci. and law were establ. at Pretoria by the Transvaal govt. and placed under the control of the council of the Transvaal Univ. Coll., Johannesburg, the constitution of that body being altered so as to give Pretoria equal representation. A separation took place in 1910, the Johannesburg section being reincorporated as the S.A. Sch. of Mines and Technol., whilst the Pretoria section retained the name of the Transvaal Univ. Coll. The facs. of agric. (1917), theol. (1918), comm. & pub. admin. (1919), vet. sci. (1920), music (1923), had also been establ. when by act no. 13 of 1930 the coll. was incorporated as the Univ. of Pretoria. The following facs. have been establ. since 1930: educn., med., dent. and engin.

CONSTITUTION. The univ. consists of the chancellor, the vice-chancellor, the rector, the council, the senate and convocation, together with

the profs., other teachers and students of the univ. The rector is *ex-officio* chairman of the senate.

INCOME. £1,125,119 (govt. grants, 68·2 per cent.; annual grants from public bodies, 0·6 per cent.; interest on investments, 0·2 per cent.; students' fees, 31 per cent.).

FACULTIES AND DEANS. *Agric.*, Prof. P. C. J. Oberholzer (hort.); *arts*, Prof. A. N. Pelzer (hist.); *comm. & pub. admin.*, Prof. B. de Loor (stats.); *dent.*, Prof. C. L. de Jager; *educn.*, Prof. B. F. Nel; *engin.*, Prof. C. A. du Toit (mech. engin.); *law*, Prof. E. M. Hamman (mercantile law); *med.*, Prof. J. G. A. Davel (child dis.); *sci.*, Prof. W. E. Schilz (inorg. & analyt. chem.); *theol.*, Prof. E. S. Mulder and Prof. E. P. Groenewald; *vet. sci.*, Prof. M. S. du Toit.

The fac. of agric. is one of 4 in S.A. Particular attention is paid to study of farming in summer rainfall area of S.A. There is an experimental

farm (tel. : 4-4517) 1 ml. east of main univ. site. The fac. has two functions: (a) it serves as teaching instrn. for trg. of agriculturists and agric. engineers. Courses for bachelor's degrees cover 4 yrs. and candidates may specialize in any branch of agric. Postgrad. work may be undertaken, and about 33 per cent. of students enrolled follow postgrad. courses. (b) It is also a res. inst. whose work falls under direct control of dept. of agric. of the union govt. In this respect it functions as a division of the dept.

The fac. of vet. sci. (tel. : 5-2411) was grafted on to the vet. res. lab. at Onderstepoort, one of the largest vet. res. insts. in the Commonwealth. The most important subjects of res. comprise protozool., virus and bacterial diseases, genesiol., helminthol., entomol., poisonous plants, mineral metabolism and other nutritional problems, sterility in cattle and sheep, and other obstet. and physiol. problems.

The clin. bldgs. of the fac. of med. are in the grounds of Pretoria General Hosp. (tel. : 2-9741). The inst. of pathol. is in Beatrix St., Pretoria (tel. : 3-0811). The Dental and Oral Hosp. is also in Beatrix St. (tel. : 2-6404).

**LIBRARY.** 348,939 vols. Sp. collections : Africana, Goethe, Roman and Dutch law.

**LABORATORIES, ETC.** Appl. maths., bot., plant physiol., chem., entomol., geog., geol., phys., psychol., zool., agric. bot., agric. chem., agron., vet. anat., sheep & wool, dom. sci., gen. & clin. anat., histol., physiol., biochem., bacteriol., clin. pathol., pathol. anat., pharmacol., med., agric. engin., surv., dent. histol., dent. mech., oper. dent., dent. prosth., dent. surg. **BOTANICAL GDNs.** in univ. grounds and on univ. exper. farm. **VETERINARY RES. INST.** **CHILD GUIDANCE CLINIC.** **INST. OF PATHOL.** **MARGARETHA MES INST. OF PLANT PHYSIOL.** **RES. INST. OF BUSINESS ADMINISTRATION.**

**TEACHING HOSPITALS.** Pretoria General H., Moedersbond Maternity H., Univ. Dental & Oral H.

**ADMISSION.** See Appendix II. Non-members of univ. not admitted to classes.

**FIRST DEGREES.** 3 yrs.—BA, BA(SW), BAdmin, BCom, BSc, BSc(Dietet), BA(LibrSc), BA(EdPhys), BIur. 4 yrs.—combined course BA(SW) and dipl. for nursery sch. teachers, and combined course BA and lower dipl. in libr. sci., BA(FineArts), BA(Log), BMus, BSc(Agric), BSc(DomSc), BSc(LandSurv), BScEng (in agric., chem., civil, electr., indust., mech., metallurg., mining engin.). 4½ yrs.—BA(Nursing), BSc(Nursing). 5 yrs.—BArch, BSc(QS), BVSc, BChD. 6 yrs.—BArch, MB ChB.

**HIGHER DEGREES.** Hons. degrees : BA (in any of the following : Bantu langs., Dutch & Afrikaans, econ., Engl., French, geog., German, Greek, Hebrew, hist., hist. of Afrik. cult., hist. of art, Latin, maths., maths. & stats., mathl. stats.,

philos., pol., psychol., sociol., soc. anthropol., appl. soc. anthropol.), BA(SW), BA(LibrSc), BA(EdPhys), BSc (in any of the following : appl. maths., chem., geog., geol., maths., maths. & stats., mathl. stats.), BSc(Dietet), BCom, BAdmin—not less than 1 yr. after corresp. first bachelor's degree. MA, MA(SW), MA(LibrSc)—not less than 1 semester after hons. degree which is a pre-requisite for admission to master's degree in fac. of arts. MA(FineArts), MAdmin, MCom, MSc, MSc(DomSc), MArch, MSc(QS)—not less than 18 mos. after corresp. bachelor's degree ; the hons. degree before admission to master's degree is optional in facs. of sci. and comm. & pub. admin. MSc(Agric)—not less than 1 yr. after corresp. bachelor's degree. BEd—not less than 1 yr. after bachelor's degree and higher dipl. in educn. or equiv. dipl. ; MSc(Eng), MSc(Land Surv)—not less than 2 yrs. after bachelor's degree ; MScTP—not less than 3 yrs. after bachelor's degree. MBA—4 yrs. ; MMed—not less than 2 yrs. after MB ChB and registration for 1 yr. with the S.A. Med. and Dent. Council (depts. of radiol., diagnostic radiol., therapeutic radiol., otorhino-laryngol., ophthalmol., anaesthetics—3 yrs. ; med., surg., dis. of children, obstet. & gynaeocol., pathol., dermatol.—4 yrs.). MEd—1 yr. after BEd. LLB—2 yrs. after law BA or 3 yrs. after ordinary BA or other degree ; LL.M.—not less than 1 yr. after LLB ; MD—not less than 2 yrs. after MB ChB. BD—3 yrs. after BA ; DLitt, DPhil (arts, comm. and pub. admin.), DSc, DCom, DBA, DMus, DEd, DEdPhys, DSc(Eng), DSc(LandSurv)—not less than 4 yrs. from bachelor's degree or 2 yrs. from master's degree ; DSc(Agric)—not less than 3 yrs. from BSc(Agric) ; LLD—not less than 2 yrs. from LLB ; DD—not less than 2 yrs. from BD ; DVSc—not less than 4 yrs. from BVSc or 2 yrs. from BVSc if at least 1 yr. after BVSc has been spent on res. at an approved instrn.

**HONORARY DEGREES.** DLitt, DPhil, DSc, DSc(Agric), LLD, DD, DCom, MD, MSc(Agric), MEd. These degrees may be conferred both as honorary and 'earned'.

**DIPLOMAS.** (a) Postgrad. : higher educn., 1 yr. ; pub. health, 1 yr. full-time or 2 yrs. pt.-time ; soc. work (higher), 1 to 1½ yrs. ; theol., 3 yrs. ; (b) other : obstet. for sister tutors, 1 yr. ; sp. educn., 1 yr. after recog. teaching cert. and experience ; nursing for sister tutors, psychiatric nursing for sister tutors, each 1 yr. after recog. nursing cert. and experience ; diagnostic radiog. for nursing sisters, physiotherapy teaching, each 1 yr. after recog. physiotherapy cert. and experience ; libr. sci. (lower), radiog., each 2 yrs. ; bus. management & admin., 2 yrs. after recog. experience ; comm., dom. sci. teaching, law (attorney's admission), law (civil service), music (in abeyance), nursery sch. teaching, phys. educn., primary teaching (higher), pub. admin., soc. work, each 3 yrs. ; town planning, 3 yrs. after recog. professl. cert. in land surv. ; quantity surv., 5 yrs. ; archit., 6 yrs.



**CERTIFICATES.** Quantity surv., 5 yrs.; archit., 6 yrs.

**FEES.** The following are the composite fees. Except where payable per course, amounts indicated are annual fees.

**Bachelor's degrees:** BA (intra-mural), BA (teachers' option), BA(LibrSc), £58; BA (extra-mural), £50; BA(SW) (intra-mural), £61; BA(SW) (extra-mural), £53; BA(FineArts), £75; BA(Log), £75; BA(Nursing), £58; BA(EdPhys) BSc, BSc (evg. classes) for the 3-yr. curric., BSc (QS), BArch, BSc(Dietet), BSc(DomSc), LLB, BJur, BSc(Agric), BD, MB ChB I, BChD I, £66; BSc (evg. classes) for the 4-yr. curric., £60; BSc in geol., £67; BSc(MinGeol), £75; BSc(Land Surv), £72; BCom, for 3-yr. curric., BAdmin, £54; hons. degrees where no use is made of labs., BEd (postgrad.), £50; where use is made of labs., £66; BSc hons. (geol.), £74; BCom (extra-mural) for 4-yr. curric., £50; BD (postgrad. course, section B), £14; MB ChB II, £90 (plus £24 exemption fees); MB ChB III, IV, V and VI, each £90; BChD II, £95 (plus £29 exemption fees); BChD III, IV, V, £95; BVSc, £90; BScEng, £75.

**Master's degrees:** MA, MCom, MAdmin, MEd, MSc in maths. after an hons. degree, £35; other MSc degrees after an hons. degree, £50; MA, LL.M., MAdmin, MCom and MSc(Agric) when use is not made of labs., £70 per course; MSc, MSc(Agric), £100 per course; MSc in geol., £108 per course; MBA, MCom (accty.), £110 per course, payable during first 2 yrs. (i.e. £55 p.a.); MEd and MA(LibrSc), £35 per course; MMed, £100 per course; MSc(Eng), £110; MScTown&RegPlan, £100; MChD, £150. Candidates for degree of master who have paid full fees for course need pay only the registration fee of £3 when renewing their registration.

**Doctor's degrees:** £60 per course, payable during first 2 yrs., £30 p.a. (plus £10 p.a. lab. fees if lab. is used); DSc in geol., £74 per course (plus £10 p.a. lab. fees if lab. is used); MD, £100 per course; DSc(Eng), £70 plus £20 lab. fees. Candidates for degree of doctor who have paid full fees for course need pay only the registration fee of £3 when renewing their registration.

**Diplomas:** Nursery sch. teaching, higher educn. (intra-mural), phys. educn., higher primary educn., DipIur, libr. sci. (intra-mural), higher and lower dipls. in libr. sci. (intra-mural), £58; higher educn., £58 (evg. classes 1½-yr. curric.; no tuition fee in 2nd yr., but £10 registration fee); soc. sci., £61; soc. sci. (extra-mural), £53; higher dipl. in soc. sci. (postgrad.), £40 (in 2nd yr., £10 registration fee only); archit., dom. sci., quant. surv., nursing, physiotherapy, £66; hosp. dietet., £5; comm. (3-yr. curriculum), £54; comm. (4-yr. curriculum), £50; business management & admin., £110; libr. sci. (extra-mural), lower dipls. in libr. sci. (extra-mural), £50;

radiog., £40; pub. health, £120 per course; town & reg. plan., £100.

**Professional courses:** DipProc (replacing attorney's admission exam.), £40; DipIur (replacing civil service law exam.), £58; civil service law exam., £40; sr. civil service law exam., £50; cert. in theory of acctg., £10 p.a. registration fee plus £5 per subj. for 1st 3 yrs., £4 per subj. in 4th yr.

**Special course:** prelim. Latin, £10.

**ACADEMIC YEAR.** Feb. to Dec., 2 semesters—Feb. to end of June, beginning of Aug. to early in Dec.

**LANGUAGE OF INSTRUCTION.** Afrikaans.

**VACATION COURSES.** Short courses may be offered in bus. management & admin. and local govt. & admin. if there is sufficient demand. Occasional vacation courses for teachers.

**'OPEN' POSTGRADUATE AWARDS.** Union scholps., £300 p.a. for 2 yrs., H. B. Webb scholp., £150 and £350 p.a. for 2 yrs., Rhodes scholp., £400 p.a. for 2 yrs., Elsie Ballot scholp., £400 for 3 yrs., Shell scholps., £200 p.a. for 3 yrs., Oppenheimer scholps. for teaching staff, £1000, S.A. Breweries Ltd. scholp., £300 for 1 yr., jr. and sr. scholps. awarded by C.S.I.R. and the Nat. Council for Soc. Res. of the Union.

**UNIVERSITY RESIDENCES.** (Postal address: Univ. of Pretoria, Brooklyn, Pretoria, for all univ. residences except Onderstepoort, which is P.O. Onderstepoort.) Women's residence (206 students): warden, Mrs. Martha M. de Wet Asterhof (217 students): warden, Mrs. Anna F. F. Jooste (tel.: Pretoria 4-3111; after 430 p.m.: 4-3115). College Hostel for men (47) warden, Prof. T. Buning (tel.: Pretoria 4-3113). Sonop Hostel for men (154): primarius elected annually from students (tel.: Pretoria 78-3713). Voortrekker Hostel for men (140): warden, Prof. P. S. Dreyer (tel.: Pretoria 4-3644). Onderstepoort Hostel (106): warden, Dr. T. F. Adelaar (tel.: Pretoria 5-2494). New College Hostel for men (258): warden, J. A. J. van Vuuren (tel.: Pretoria 4-2554). New men's hall of residence (270); new women's residence (250). Boarding fees: £105 p.a.; Asterhof, £115 p.a.

**UNIVERSITY MILITARY FORMATION.** 1 observation and sound ranging battery (1 observation regiment, S.A. Artillery).

**ATHLETIC FACILITIES.** Gymnasia, rugby and hockey fields, tennis courts, cinder track, juksket and cricket pitches, netball and basket-ball fields, tenniquits courts and volley-ball pitch.

**EXTRA-MURAL STUDIES.** A sp. feature of the univ. is the work done in the extra-mural faculties. At 328 Proes St., Pretoria (tel.: 2-4288), lectures are given, out of ordinary business hours, for the benefit of public servants, articleed clerks, commercial men and teachers. Over 1800 students are enrolled, practically all for full degree courses; for BA, law BA, LLB, BCom,

BAdmin, master's degrees, degree and dipl. in business management, law cert., banker's cert., or dipls. in admin.

UNIVERSITY EXTENSION. The facs. of agric. and vet. sci. co-operate with the union dept. of

agric. in connexion with the extension training service organized by it. Public lectures are organized in Pretoria and surrounding districts.

PUBLICATIONS. *Calendar* (Nov.), free; *Bulletins* containing result of res. by members of staff.

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. City Council of Pretoria, annual capital grant of £10,000 plus £20,000 for fac. of engin.

(Total value of all benefactions received: £52,667).

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: extension to bot. bldg.; bldg. for dept. of archit.; extension to engin. bldg.; new men's hall of residence on univ. exper. farm.

NEW DEPARTMENTS AND CHAIRS. None.

RETIREMENTS. Prof. H. P. Wolmarans (philos. of religion & missions); Prof. P. J. J. Fourie (vet. pathol.).

RESIGNATIONS. Dr. C. v. d. M. Brink (inorg. chem.), apptd. prof. of chem., O.F.S.; Prof. J. D. W. A. Coles (poultry diseases), engaged in farming; Prof. W. J. Hugo (sheep & wool technol.), apptd. asst. dir., div. of educn. & res., union dept. of agric.; Prof. L. J. le Roux (phys. chem.), apptd. chief chemist, bd. of atomic energy; Rev. W. J. Lubbe (classics), apptd. to living, Dutch Ref. Church; Dr. D. H. Wiid (appl. maths.), apptd. sr. lectr. in appl. maths., S.A.

DEATHS. Prof. M. C. Botha (rector, 1941-47); Prof. H. B. Davel (prof. of dairying, 1925-55); Prof. Margaretha G. Mes (prof. of bot., 1944-52 and plant physiol. & biochem., from 1952); Dr. T. van Schaik (sr. lectr. in genetics).

HONORARY DEGREES. *DPhil*—Rt. Hon. M. D. C. de Wet Nel, minister of Bantu Admin. & Devel. *DSc*—Dr. D. F. du T. Malherbe, formerly prof. of chem.; A. E. Rupert, industrialist. *LLD*—Hon. W. Pittman, formerly judge pres. eastern prov. div. of Cape Supreme Court. *DCom*—Dr. J. E. Holloway, previously sec. for finance, S.A. ambassador to U.S.A., and high commissioner for S.A. in London.

\* The title of the MCom(BusMan) degree has been changed to MBA. Candidates who commenced their studies under the old regns. are, however, designated MCom(BusMan).

### Statistics

#### STUDENT NUMBERS, 1960

##### *Intra-Mural*

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	4603	54
Women . . .	1345	11
Total . . .	5948	65

##### *Extra-Mural*

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1553	63
Women . . .	195	7
Total . . .	1748	70

Distribution by Faculties. *Agric.*, 532; *arts*, 2393; *comm.*, 937; *dent.*, 117; *educn.*, 296; *engin.*, 578; *law*, 252; *med.*, 802; *sci.*, 1639; *theol.*, 100; *vet. sci.*, 185. Total: 7831.

*Included in the figures above are* :—

Postgraduate students, 1505 (1332 m., 173 w.).

New admissions, 1956 (1396 m., 560 w.).

Students from other countries, 105. (Countries from which largest numbers came: S. Rhodesia, 40; N. Rhodesia, 17).

DEGREES AWARDED (1959). *Agric.*: BSc(Agric), 54; MSc(Agric), 14; DSc(Agric), 3. *Arts*: BA, 259; BA(SW), 11; BA(LibrSc), 8; BA(Ed Phys), 4; BA(FineArts), 1; BA (hons.), 35; BA(LibrSc) (hons.), 2; MA, 19; DLitt, 1; DPhil, 7. *Comm.*: BAdmin, 6; BCom, 79; BCom (hons.), 1; MCom, 8; MCom(BusMan)\*, 4; MBA, 14; DCom, 3; DBA, 1. *Dent.*: BChD, 24. *Educn.*: BEd, 12; MEd, 10; DEd, 2. *Engin.*: BSc(AgricEng), 5; MSc(AgricEng), 1; BSc(LandSurv), 2. *Law*: BLur, 10; LLB, 11; LLD, 1. *Med.*: MB ChB, 53; MMed, 12; MD, 2. *Sci.*: BSc, 109; BSc(QS), 2; BArch, 7; BSc(DomSc), 6; BSc(Dietet), 5; BSc (hons.), 6; MSc, 25; DSc, 5. *Theol.*: BD div. A, 4; BD div. B, 5; DD div. A, 3. *Vet. sci.*: BVSc, 25; DVSc, 2. Total number of first degrees awarded, 670.

DIPLOMAS AWARDED (1959). *Arts*: Lower DipLibrSc, 3; DipLibrSc, 4; DipSW, 5; Higher DipSW, 1. *Educn.*: HED, 52; HPED, 4; DipNurserySchT, 4. *Law*: DipProc, 6; Diplur, 2. *Med.*: DipRadiog, 17; DipNursing for tutor sisters, 12; DipDiagnRad for sisters, 5; DPH, 4. *Sci.*: DipDomSc, 5; DipQS, 6; DipArch, 8. *Theol.*: DipTheol, div. B, 4.

# RHODES UNIVERSITY\*

Founded 1904 ; incorporated 1951

Postal Address : P.O. Box 94, Grahamstown, Cape Province, South Africa

Cables and Telegrams : Rhodescol

Telephone (General) : Grahamstown 589

CHANCELLOR—Sir BASIL F. J. SCHONLAND, CBE, MA PhD ScD *Camb.*, Hon. DSc *Cape T. & Rand*, Hon. LLD *Natal & Rhodes*, FRS

VICE-CHANCELLOR AND PRINCIPAL—T. ALTY, PhD *Camb.*, DSc *Liv.*, Hon. DCL *Durh.*, Hon. LLD *Glas. & Tor.*, FIP, FRSCan

PRO-VICE-CHANCELLOR AND VICE-PRINCIPAL—J. V. L. RENNIE, MA *Cape T.*, PhD *Camb.*, DipGeog *Lond.*, FRSSAf

CHAIRMAN OF COUNCIL—S. B. HOBSON, MA *Cape*, Hon. LLD

VICE-CHAIRMAN OF COUNCIL—H. A. KENDALL

PRESIDENT OF CONVOCATION—The Hon. Mr. Justice A. G. JENNETT, BA LLB *S.A.*

REGISTRAR—R. MARTIN, OBE, MC

LIBRARIAN—F. G. VAN DER RIET, MA *Stell.*, DU*Paris*

## TEACHING STAFF

[†=Part-Time]

### Accounting

Roberts, H. M., BCom *Rand* Prof.  
Orpen, R. D., BA BCom *Cape T.* Sr. Lectr.  
Liddell, D., MA BCom *Edin.* Lectr.

Little, G. E., MA PhD *Camb.* Sr. Lectr.  
Prout, E. G., MSc PhD *S.A.* Sr. Lectr.  
Steyn, W. J. A., MSc *S.A.*, PhD Sr. Lectr.  
..... Sr. Lectr.  
McGillivray, G., BSc Lectr.  
Gerrans, G. C., BSc Lectr.  
4 Jr. Lectrs.

### African Studies

Mayer, P., BSc DPhil *Oxon.*, DrJur *Heidel.* Prof.  
Lanham, L. W., MA Dip in Native Affairs  
*Rand* Sr. Lectr.  
Hammond-Tooke, W. D., MA PhD *Cape T.* Lectr.

### Classics

Dilke, O. A. W., MA *Camb.* Prof.  
Baumbach, Lydia, MA *Stell.*, BA *Camb.* Sr. Lectr.  
Shillington, Mrs. Dorothy F., MA *Cape T.* Lectr.  
Milne, A., MA *Aberd.* Lectr.

### Afrikaans-Nederlands

Antonissen, R. K. J. E., DPhil&Lit *Louvain* Prof.  
Smuts, J., MA PhD *Cape T.* Sr. Lectr.  
Truter, H. W., MA DLitt *Stell.*,  
LittDrs *Amst.* Lectr.

### Commerce

Smith, H. H., MCom *S.A.*, PhD Prof.  
2 Instrs.

### Botany

Twyman, E. S., MSc PhD *Birm.* Prof.  
Seagrief, S. C., MSc *S.A.*, PhD *Camb.* Sr. Lectr.  
Jacot-Guillarmod, Mrs. Amy F. M. G.,  
MA BSc *St.And.* Lectr.  
3 Jr. Lectrs.

### Divinity

Maxwell, W. D., TD, BA BD *Tor.*, PhD  
DLitt *Edin.*, DD *Glas.* Prof., Hd. of Dept.  
Hewson, Rev. L. A., BA *Rand*, MA *Camb.*,  
PhD (New Test.) Prof.  
Hinchliff, Rev. P. B., BA *S.A. & Oxon.*, PhD  
(Eccles. Hist.) Prof.  
Cosser, Rev. W., MA BD *Glas.*, DD *S.A.*,  
BThéol *Stras.* Sr. Lectr.  
2 Lectrs.†

### Chemistry

Barker, W. F., BSc PhD *Liv.*, FRIC,  
FRSSAf Prof.

\* Member of the Association of Universities of the British Commonwealth

**Economics**

Houghton, D. H., MA *Oxon.*, BA *S.A.* Prof.  
 Fourie, L., BA *S.A.*, MA *Stell.* Sr. Lectr.  
 Bell, R. T., MA *Vanderbilt*, BCom Lectr.  
 Orkin, Jennifer L. R., BA *Oxon.* & *Rhodes* Lectr.

**Education**

Morton, D. M., BSc MA EdB *Glas.* Prof.  
 Gerber, J. J., BSc *Stell.*, MEd *S.A.* Prof.  
 Earnshaw, H., OBE, MSc *Leeds* Lectr.  
 12 Lectrs.†

**English**

Butler, F. G., MA *S.A.*, BA *Oxon.* Prof.  
 Wahl, J. R., MA PhD *Cape T.*, DPhil *Oxon.* Sr. Lectr.  
 Terry, W. D., BA *Rand*, MA *Camb.*,  
 DLitt *S.A.* Sr. Lectr.  
 Avling, R. F., BA *Nott.* Lectr.  
 ..... Lectr.  
 3 Jr. Lectrs.

**Entomology**, see Zool. and Entomol.**Fine Arts**

Bradshaw, B. Prof.  
 Guiton, Mrs. Natalie M., BA(FA) *S.A.* Sr. Lectr.  
 Ewan, A. W. Lectr.  
 1 Jr. Lectr., 1 Instr.

**French**

Cattanéo, J. L., MA *S.A.*, Cert *Inst.dePhon.*,  
*Paris* Prof.  
 Nixon, Mrs. Hélène L., BA *Natal* & *S.A.* Lectr.

**Geography**

Rennie, J. V. L., MA *Cape T.*, PhD *Camb.*,  
 DipGeog *Lond.*, FRSSAf Prof.  
 Forbes, V. S., MA *Camb.*, PhD Sr. Lectr.  
 Griffiths, I. L., BSc PhD *Lond.* Lectr.

**Geology**

Mountain, E. D., MA *Camb.*, DSc *S.A.* Prof.  
 Ruddock, A., MSc *Durh.* Sr. Lectr.  
 Eales, H. V., MSc Lectr.

**German**

Erbe, H. E. W., PhD *Jena* Sr. Lectr.

**History**

Maxwell, Mrs. Winifred A., MA BLitt *Oxon.* Prof.  
 Crompton, J., BA *Manc.*, MA BLitt *Oxon.* Sr. Lectr.  
 Nuttall, M., BA *Camb.*, *Natal* & *Rhodes* Lectr.  
 2 Jr. Lectrs.

**Ichthyology**

Smith, J. L. B., BA *Cape*, MSc *Stell.*,  
 PhD *Camb.*, FRSSAf Research Prof.

**Law**

McKerron, R. G., MA *Aberd.* & *Oxon.*,  
 DCL *Oxon.* Prof.  
 Copeland, L. H., QC, BA *Oxon.* Sr. Lectr.  
 Kerr, A. J., BA *S.A.*, LLB *Rand*,  
 LLM *Natal* (on leave) Sr. Lectr.  
 Jones, R. W., BA LLB *S.A.*, BCL *Oxon.*  
 3 Lectrs.†

**Mathematics**

Parkyn, D. G., MA *Oxon.* (Appl. M.) Prof.  
 Abrahamson, B., MSc *Cape T.*, MS  
 PhD *Chic.* (Pure M.) Prof.  
 King, J. W., MSc *S.A.* Sr. Lectr.  
 Weigert, H., MSc *Stell.* Sr. Lectr.  
 Fick, J. R. G., MSc *S.A.* Lectr.  
 1 Jr. Lectr.

**Music**

Gruber, G., DrPhil *Vienna* Prof.  
 Mayr, R., DrPhil *Innsbruck* Sr. Lectr.  
 1 Jr. Lectr., 6 Practical Teachers

**Pharmacy**

Price, H., FRIC Prof.  
 Roberts, G. H., MSc *Belf.* Sr. Lectr.  
 Hurdle, Sylvia G., BPharm *Wales* Lectr.

**Philosophy and Politics**

Oosthuizen, D. C. S., MA *Stell.*,  
 PhilDrs *Amst.* Prof.  
 Beard, T. V. R., BA *Natal* & *Oxon.* Sr. Lectr.  
 1 Jr. Lectr.

**Physical Education**

Locke, E. E., BSc *S.A.* Sr. Lectr.  
 Hönicka, Mrs. Christa, Staats-examen *Leip.*,  
 Universitäts-dipl *Berl.* Lectr.  
 Coghlan, D. V. Lectr.

**Physics**

Gledhill, J. A., PhD *Yale* & *S.A.*, MSc *S.A.* Prof.  
 Helm, H., MSc *Cape T.* Sr. Lectr.  
 Baart, E. E., PhD *Liv.*, BSc Sr. Lectr.  
 Archer, S. F. H. J., MSc *Cape T.* Lectr.  
 Walker, A. D. M., BSc Lectr.  
 1 Jr. Lectr.

**Politics**, see Philos. and Pol.**Psychology**

Wild, E. H., PhD *Lond.*, MSc *S.A.*,  
 FBPsS Prof.  
 Williams, W. H., BA BEd *Melb.*, MA  
 EdD *Stan.* Sr. Lectr.  
 Marsh, M. C., BA *S.A.*, PhD Lectr.

**Social Science**

Irving, J., MA *Camb.*, DPhil *S.A.* Prof.

Watts, H. L., BA *S.A.*, BA PhD  
La Grange, Mrs. Frieda H.,  
MA(SocSci) *Stell.*

Sr. Lectr.  
Lectr.

Alberts, L. E., BSc *Pret.*  
2 Jr. Lectrs.

Lectr.

### INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH

Houghton, D. H., MA *Oxon.*, BA *S.A.*  
Chairman, Bd. of Management  
..... Dir.

Pauw, B. A., MA BD *Stell.*, PhD *Cape T.*  
Res. Officer  
Strauss, C. B., MSc *Corn.*, BA Res. Officer  
5 Jr. Res. Officers

### Zoology and Entomology

Ewer, D. W., MBE, MA *Camb.*, PhD *Birm.*  
Prof.  
van Hille, J. C., MSc PhD *Utrecht* Sr. Lectr.  
Callan, E. McC., BSc *Manc.*, DIC,  
PhD *Lond.* Sr. Lectr.  
Alexander, Anne J., BSc *Natal*, PhD Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Accountant: D. F. Blain. Asst. Registrar:  
W. J. Askew, BCom *Natal*. Admin. Asst.:  
Doreen D. Light. Dep. Librarian: R. A. Brown,  
MA *Oxon.* Dean of Students: H. J. Chapman,  
MBE, BA LLB *S.A.* Catering Manager: F. D.  
Sudano.

WARDENS OF RESIDENCES: St. Mary's Hall:  
Sheila Maritz, MSc *S.A.*; Oriel Hall: Mrs.

Gurling C. Plaistowe; Milner Hall: Mrs. P. A.  
Sutton, BSc *S.A.*; Jan Smuts Hall: H. J. Chap-  
man, MBE, BA LLB *S.A.*; Founders Hall: J. J.  
Gerber, BSc *Stell.*, MEd *S.A.*; Drostdy Hall:  
J. W. King, MSc *S.A.*; Piet Retief Hall: Rev.  
L. A. Hewson, BA *Rand*, MA *Camb.*; Thomas  
Pringle Hall: .....

## ASSOCIATED INSTITUTIONS

LEATHER INDUSTRIES RESEARCH INSTITUTE (tel.:  
Grahamstown 720). Incorporated 1946. Under  
control of C.S.I.R. Dir. & Res. Prof.—S. G.  
Shuttleworth, MSc PhD *S.A.*, FRIC.

S.A. WOOL TEXTILE RESEARCH INSTITUTE (tel.:  
Grahamstown 1574). Incorporated 1953. Under  
control of C.S.I.R. Dir. & Res. Prof.—C. C.  
Kritzinger, MSc *Stell.*, MS *Cinc.*, PhD *S.A.*

## GENERAL INFORMATION

The beginnings of Rhodes Univ. date from 1855, when St. Andrew's Coll. was founded at Grahamstown. For many yrs. this sch. prepared students for degree exams., as well as for the usual sch. exams. In 1878 the sch. establd. a separate coll. dept. for the purpose of preparing students for the exams. of the Univ. of the Cape of Good Hope. In 1904, generous financial support from the Rhodes trustees, the citizens of Grahamstown and the public bodies of the Eastern Cape, made it possible to separate this coll. dept. from the sch., and it was incorporated by act of parliament as Rhodes Univ. Coll. The coll. continued to prepare students for the degrees of the Univ. of the Cape of Good Hope until 1916, when it became a constituent coll. of the Univ. of S. Africa. In 1949, parliament passed an act incorporating the coll. as Rhodes Univ., which came into being on March 10, 1951. From the same date (up to 1959), the S. African Native Coll. (now the Univ. Coll. of Fort Hare) was affiliated to the new univ.

The univ. now owns an impressive array of bldgs. erected progressively since 1914 on an excellent site, the nucleus of which was donated to the coll. by the govt. All the bldgs., which

comprise admin., academic and residential blocks, are situated within easy reach of one another, and of the univ. sports fields.

Grahamstown is a town with a population of about 24,000, of whom over half are non-Europeans. The students of the univ. are, however, drawn from all parts of the Union and the Fed. of Rhodesia & Nyasaland.

CONSTITUTION. The univ. consists of the chancellor, the principal, who is *ex officio* the vice-chancellor, the vice-principal, who is *ex officio* the pro-vice-chancellor, the council, senate and convocation, together with the profs., lectrs., other teachers and the students.

LANGUAGE OF INSTRUCTION. English.

INCOME (1959). £463,000 (govt. grant, 55 per cent.; hostel fees, 27 per cent.; academic fees, 16 per cent.; other sources, 2 per cent.).

FACULTIES AND DEANS (1960). *Arts*, Prof. R. K. J. E. Antonissen (Afrikaans-Nederlands); *comm.*, Prof. D. Liddell; *div.*, Prof. W. D. Maxwell; *educn.*, Prof. D. M. Morton; *law*, Prof. R. G. McKerron; *sci.*, Prof. D. W. Ewer (zool.); *soc. sci.*, Prof. J. Irving.

**LIBRARY.** Over 100,000 vols., excl. unbound periodicals, pamphlets, etc. The Cory library contains a collection of material relating to the hist. of the Eastern Cape Province.

**ADMISSION.** See Appendix II. Non-matriculated candidates may be admitted to certain dipl. and cert. courses.

**FIRST DEGREES.** BA, BSc, BSc(Pharm), BCom, BEcon, BSocSc—3 yrs.; BA(FA), BMus—4 yrs. 'The hons. degree in arts, fine arts, sci., comm., econ. and soc. sci. requires 1 yr. of study after the ordinary degree. In arts and soc. sci., however, an hons. degree may also be taken as a 1st degree after 4 yrs.' study, without obtaining the ordinary degree. In this course there is more specialization in the 3rd and 4th yrs. than in the more usual method of taking an ordinary degree first. Hons. degrees may be taken in the following subjects: a Bantu lang.; Afrikaans-Nederlands; appl. maths.; bot.; chem.; classics; comm.; econ.; Engl.; entomol.; fine art; French geog.; geol.; German; Greek; hist.; Latin maths.; pharm.; philos.; philos., pol. & econ. pol.; psychol.; sociol.; soc. anthropol.; zool.; or a combination of any 2 approved langs.

**HIGHER DEGREES.** BED, LLB, BD—2 yrs. of instructn. following an approved degree in another fac. By res.: MA, MA(FA), MSc, MCom, MEcon, MSocSc—1 yr. after hons. degree; MMus, MEd, LLM—1 yr. after BMus, BED, LLB, respectively; PhD (all facs. except law)—2 yrs. after master's degree or 3 yrs. after hons. degree; DLit, DSc, DEcon, LL.D, DD, DSocSc, DMus—4 yrs. after master's degree or 5 yrs. after hons. degree or BED, LLB, BD. All the doctorates may also be awarded as honorary degrees. The higher degrees are open to grads. of other univs. provided they attend Rhodes Univ. for an approved period.

**DIPLOMAS.** 1 yr.—leather sci., educn., soc. work, personnel welfare & management (all post-grad.). 2 yrs.—soc. studies (non-grad.). 3 yrs.—law, theol., music, lower secondary teacher (all non-grad.). 4 yrs.—fine art, art teacher (both non-grad.).

**CERTIFICATES.** 2 yrs.—religious knowledge, secretarial practice. 3 yrs.—higher primary teacher, theory of accty. 4 yrs.—art teacher. (All non-grad.).

**OTHER COURSES.** First-yr. courses are given for students proceeding to other univs. for degrees in engin., med., dent., vet. sci. and agric.; and a special BSc degree enables a student to obtain exemption from two yrs. of the course for a degree in surveying at certain other univs. The full courses of trg. for professl. dipls. in music are also given.

**RESEARCH.** The Leather Industries Res. Inst. (see 'Assoc. Instrns.', above) originated as a tanning res. section of the chem. dept. and gradually developed, until in 1942 it was able to move into a separate bldg. and became an indep. dept. In

1946 it was formally constituted as a res. inst. under the control of the Council for Scientific and Indust. Res., but it still remains closely associated with the univ.

The S.A. Wool Textile Res. Inst. (see 'Assoc. Instrns.', above), incorporated in 1953, is also under the control of the C.S.I.R. and closely associated with the univ.

Inst. of Soc. & Econ. Res. (see p. 762) was establ. in 1954 to co-ordinate and extend res. in soc. scis.

**FEES.** The following cover all charges for registration, tuition, labs., ord. exams., graduation, library and students' socs.: BA, BA(FA), BCom, BEcon, BSocSc, BMus, £60 p.a.; BSc, BSc(Pharm), LLB, £70 p.a.; BD, BED, £55 p.a. Hons. degrees, £60 p.a. (£75 if labs. used). Master's degrees, £30 p.a. (£45 if labs. used) plus exam. fee, £10. PhD, £25 p.a. (£40 if labs. used) plus exam. fee, £20. Dipls.: educn., fine art, secondary teacher's, £55 p.a.; art teacher's, £70 p.a. Certs.: primary teacher's, £55 p.a.; art teacher's, £65 p.a. Other dipls. and certs., £60 p.a.

**ACADEMIC YEAR.** March to Nov., 4 terms of approx. 7 weeks each.

**ADULT EDUCATION.** Extension lectures are given from time to time by members of the staff in the main towns of the Eastern Province.

**ENTRANCE SCHOLARSHIPS, ETC.** Several govt. bursaries (up to £100 p.a. for 3 yrs.); 2 Alfred Beit scholps. (£50 for 1 yr.); 2 Reynolds bursaries (£75 p.a. for 3 yrs.); other bursaries of varying amounts.

**FELLOWSHIP** open to grads. of any univ. Hugh Le May fellowship, about £1500 for 1 yr., awarded in alternate yrs. for advanced res. in humanities.

**STUDY LEAVE.** Academic staff may be granted 6 mos.' leave (3 mos. full pay, 3 mos. half pay) after each period of service of 5 yrs.

**RESIDENCES.** *Men:* Founders Hall (Botha House, College House, Cory House, Matthews House), accomm. 192 students; Drostdy Hall (Struben House, Graham House, Drostdy Lodge, Atherstone House), 197; Jan Smuts Hall (Jan Smuts House, Adamson House), 218; Piet Retief Hall (Piet Retief House, Livingstone House), 55; Thomas Pringle Hall, 120. *Women:* Oriel Hall (Beit House, Jameson House, Oriel House), accomm. 170 students; St. Mary's Hall (John Kotze House, Phelps House, Olive Schreiner House), 204; Milner Hall, 55. Residence fees: £125 p.a.

**ATHLETIC UNION** controls all sporting activities incl. sports clubs. **STUDENTS' REPRESENTATIVE COUNCIL** controls all other student activities.

**PUBLICATIONS.** *Calendar*; *Prospectus*; *Report* (annual); *Rhodian* (annual students' publicn.).

## THE YEAR 1959

**DISAFFILIATION of Univ. Coll. of Fort Hare.** By act of parliament this coll., which had been affiliated to the univ. since 1951, was disaffiliated at the end of 1959. For a limited period, however, the univ. will continue to examine students of the coll. for degrees for which they were already registered.

**RESIGNATIONS.** Prof. W. W. Battiss (fine art) ; J. W. King (phys.), apptd. sr. lectr., Natal ; H. J. Lethbridge (soc. sci.), apptd. lectr., H.K. ; Dolores A. Mather-Pike (music) ; A. R. A. Noel (bot.), apptd. lectr., U.C. Rhodesia & Nyasaland ; Sheila F. Osborn (Engl.) ; J. T. Powell (phys. educn.), apptd. lectr., Ill. ; B. L. Reynolds (pharm.), apptd. lectr., Adel. ; A. T. C. Slee (pol.), apptd. sr. lectr., Makerere Coll. ; E. F. Stack-Forsyth (phys.) ; Prof. C. Todd (fine art), apptd. to chair, Makerere Coll.

**HONORARY DEGREES.** LLD—S. B. Hobson, chairman, univ. council. DD—Rev. J. B. Webb, pres., Methodist Conference.

## Statistics

## STUDENT NUMBERS, 1960

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	879	94
Women . .	464	16
Total	1343	

**Distribution by Faculties.** *Arts*, 501 ; *comm.*, 199 ; *div.*, 30 ; *educn.*, 81 ; *law*, 18 ; *sci.*, 545 ; *soc. sci.*, 34. Also 45 'special' students not studying for a degree or dipl. Total : 1453.

*Included in the figures above are :—*

Postgraduate students, 162.

New admissions, 542.

Students from other countries, 294. (Country from which largest number came : Fed. of Rhodesia & Nyasaland, 239).

**DEGREES AWARDED (1959).** *Arts* : BA, 82 ; BA (hons.), 9 ; MA, 4 ; BA(FA), 3. *Comm.* : BCom, 13 ; BCom (hons.), 1. *Div.* : BEd, 2. *Educn.* : BEd, 2 ; MEd, 1. *Law* : LLB, 3. *Sci.* : BSc, 34 ; BSc (hons.), 15 ; MSc, 9 ; BSc (pharm.), 2. *Soc. sci.* : BSocSc, 1. PhD (all facs.) : 6.

**DIPLOMAS AND CERTIFICATES AWARDED (1959).** UED, 31 ; dipl. fine art, 1 ; dipl. theol., 2 ; HPTC, 4 ; art cert., 3 ; cert. theory of accty., 13 ; cert. secretarial practice, 4 ; cert. religious knowledge, 1.

# UNIVERSITY OF SOUTH AFRICA\*

Founded 1873 as University of the Cape of Good Hope

263 Skinner Street, Pretoria

Postal Address : P.O. Box 392, Pretoria, Transvaal, South Africa

Cables and Telegrams : Unisa, Pretoria

Telephone : 2-2345, Pretoria

CHANCELLOR—F. J. DE VILLIERS, BA PhD DSc, FRIC

VICE-CHANCELLOR AND CHAIRMAN OF SENATE—Professor S. PAUW, BSc DPhil *Pret.*, MA

CHAIRMAN OF COUNCIL—S. P. E. BOSHOF, MA LittD

PRESIDENT OF CONVOCATION—.....

PRINCIPAL—Professor S. PAUW, BSc DPhil *Pret.*, MA

REGISTRAR—B. F. J. VAN RENSBURG, MCom BA

ASSISTANT REGISTRAR—L. G. VAN DER MERWE, BCom

## TEACHING STAFF

[† = Part-Time ; § = Hd. of Dept.]

### Accounting

Colliers, J. A., MCom *Pret.*  
Cilliers, H. S., BA LLB *Cape T.*  
Badenhorst, M. L., BCom  
Coertse, C. J., MCom *Pret.*  
de Bruin, J. W. A., BCom *Pret.*  
Loubser, J. W., BCom *O.F.S.*  
Swart, J. N., MCom(BusMan) *Pret.*

§Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Bantu Languages

Ziervogel, D., MA DLitt *Pret.*  
Louw, J. A., MA *Stell.*  
Ferreira, J. A., MA *Pret.*  
Malepe, A. T., BA  
Dau, R. S., BA  
Jubase, J. B., BA *Rhodes*

§Prof.  
Sr. Lectr.  
Lectr.  
Sr. Lang. Asst.  
Lang. Asst.  
Lang. Asst.

### Afrikaans-Nederlands

van der Merwe, H. J. J. M., MA  
DLitt *Pret.*  
Steyn, J. L., MA DLitt *Potchef.*  
Posthumus, M. J., MA DLitt *Pret.*  
Burm, O. J. E., BA *Pret.*  
Dekker, L., MA *Potchef.*  
Potgieter, S. J. B., MA *Potchef.*  
Vogel, R., MA *Cape T.*

§Prof.  
Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Lectr.

### Bibliography and Librarianship

de Vleeschauwer, H. J., PhilD CandHist  
*Ghent*, Hon. LLD *Glas.*  
Zastrau, H., BSc HDipl(Bibl) *Pret.*  
Hartmann, E. N., BA *Rand*, FLA,  
FSALA

§Prof.  
Sr. Lectr.  
Sr. Lectr.

### Business Economics

Rädel, F. E., DiplRerOec *Dresden*,  
DCom *Stell.*  
Winkle, F. F., DrEcon *Bud.*  
Bak, C., EconDr *E.H.Rotterdam*  
de Beer, J. J., DCom *Stell.*

§Prof.  
Sr. Lectr.  
Lectr.  
†Lectr.

### Anthropology and Bantu Law

Myburgh, A. C., BA LLB *Stell.*,  
DPhil *Pret.*  
Sentker, H., BA *Pret.*  
Monnig, H. A., MA *O.F.S.*  
Theron, E., BA

§Prof.  
Sr. Lectr.  
Lectr.  
Lectr.

### Auditing

du Toit, L. M., BCom  
Marx, F. M., MCom  
Oosthuizen, G. L., BCom *Pret.*

§Sr. Lectr.  
Lectr.  
Lectr.

### Classical Languages

Viljoen, G. van N., MA *Pret. & Camb.*,  
LLB *Pret.*, DLitt&Phil *Ley.*  
Naude, C. P. T., MA *Rand & Oxon.*,  
DLitt&Phil *Ley.*  
Fourie, J. M., DLitt *Pret.*, MA  
von Weber, O. A., DPhil *Bonn*  
Kriel, D. M., BA *Pret.*

§Prof.  
Sr. Lectr.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.

\* Member of the Association of Universities of the British Commonwealth



**Criminology**

van der Walt, P. J., MA DLitt *Pret.* §Sr. Lectr.

**Economics and Economic History**

Venter, K. D., BA MA(Econ) §Sr. Lectr.  
 Jones, J., MA *Stell.* Sr. Lectr.  
 van den Bogaerde, F., BCom *Stell.* Sr. Lectr.  
 Leistner, G. M. E., MA *Stell.* Lectr.

**Education**

Cilliers, D. H., MA MEd DPhil §Prof.  
 Erasmus, O. C., BA *Stell.*, DEd *Pret.* §Prof.  
 Venter, E. H., BA BCom DEd *O.F.S.* §Prof.  
 Venter, I. S. J., BA DEd *O.F.S.* §Sr. Lectr.

**English**

Davies, E., MA *Rand*, BLitt *Oxon.* §Prof.  
 Sinclair, F. D., BA Sr. Lectr.  
 Beeton, B. R., MA *Pret.* Lectr.  
 Berthoud, J. A., BA *Rand* Lectr.  
 Cheadle, B. D., BA *Rand* Lectr.  
 Smith, M. v. W., BA *Stell.* Lectr.  
 Whittock, T. G., BA *Rand* Lectr.

**French**

Blair, D. S., BA *Lond.*, PhD *Rand* Lectr.  
 Morris, R., MA *Pret.* Lectr.  
 Valkhoff, J. W. Lectr.

**Geography and Economic Geography**

Moolman, J. H., DPhil *Stell.* §Prof.  
 Smit, C. B., MA *Pret.* Sr. Lectr.  
 Tromp, R. D., MSc *Pret.* Lectr.  
 Niemann, W. H., BSc *Pret.* Lectr.  
 Scheepers, J. N., BA Lectr.  
 Ferreira, C. E., BA *Pret.* Tech. Asst  
 Haasbroek, S., BA *Pret.* Tech. Asst

**German**

Schneider, B. A. T., MA *Cape T.* §Sr. Lectr  
 Hesse, A. O., MA DLitt *Pret.* Sr. Lectr

**History**

Muller, C. F. J., MA DPhil *Stell.* §Prof.  
 van Jaarsveld, F. A., MA DLitt *Gron.* Sr. Lectr.  
 van Wijk, T., MA Sr. Lectr.  
 Davey, A. M., MA Lectr.  
 van Zyl, M. C., MA *Pret.* Lectr.  
 Zietsman, P. H., MA *O.F.S.* Lectr.

**Jewish Studies**

Newman, J., MA *Manc.*, DLitt *Pret.* †Lectr.

**Law, Mercantile**

Benade, M. L., BA *Stell.*, LLB *O.F.S.* Sr. Lectr.

**Law, Public**

Strauss, S. A., BA LLB *O.F.S.* §Prof.  
 van Dyk, H. P., BA LLB *Pret.*, LLD *Ley.* Sr. Lectr.

**Law, Roman**

Hosten, W. J., BA LLB *Stell.* §Sr. Lectr.

**Law, Roman-Dutch**

de Villiers, D., BA *Oxon.* §Prof.  
 Joubert, W. A., MA LLD *Stell.* Prof.  
 van Zyl, L. J., BA LLB *Stell.* Lectr.

**Mathematical Statistics**

Steyn, H. S., DSc PhD *Edin.* §Prof.  
 van Heerden, D. F. I., MSc *Pret.* Sr. Lectr.  
 Gonin, H. T., PhD DiplActuarial Maths  
*Edin.*, MSc *Stell.* Sr. Lectr.  
 Pretorius, G., BSc *Potchef.* Asst.

**Mathematics and Applied Mathematics**

van der Merwe, J. H., PhD *Cape T.*,  
 MSc §Prof.  
 van der Walt, B. J., MSc Sr. Lectr.  
 van der Mark, J., MSc *Potchef. & S.A.*,  
 DPhil *Ley.* Sr. Lectr.  
 Wiid, D. H., DSc *Pret.* Sr. Lectr.  
 Hall, P. R. Lectr.  
 Wolterbeek-Muller, J., Maths&PhysDrs *Ley.* Lectr.

**Music**

Roode, D. J., BMus Prof., Dir.  
 Paff, W. P., PhD *Rand* †Lectr

**Native Administration**

Van As, B. S., MA *Stell.* §Sr. Lectr.  
 Olivier, J. J., BA *Pret.* Lectr.  
 van Lill, P. D., BA *Stell.* Lectr.

**Philosophy**

de Vleeschauwer, H. J., PhilD  
 CandHist *Ghent*, Hon. LLD *Glas.* §Prof.  
 Meyer, A. M. T., MA DPhil *Pret.* Prof.

**Political Science and Public Administration**

Kleynhans, W. A., BCom MA *Pret.* §Sr. Lectr.  
 Vosloo, W. B., MA *Pret.* Sr. Lectr.  
 Worrall, D. J., MA *Cape T.* Lectr.

**Psychology**

Roux, A. S., MA DPhil *Pret.* §Prof.  
 Blignaut, F. W., MA DLitt&Phil Sr. Lectr.  
 Kruger, C. F., MA DPhil *Stell.* Sr. Lectr.  
 Schlebusch, A., MA *Pret. & Minn.* Sr. Lectr.  
 Gerdes, L. C., MA Lectr.  
 Doherty, E., MA *Pret.* Lectr.  
 Prins, S. J., BD *Pret.*, BA Lectr.  
 Seele, M. M., BA *Rhodes* Lectr.  
 Vlok, A., MA *Pret.* Lectr.

**Social Work**

van Rooyen, I. J. J., MA DPhil *O.F.S.* §Sr. Lectr.

**Sociology**

van der Walt, J. A., DPhil *O.F.S.*, MA §Prof.  
 Retief, G. M., MA DPhil *Pret.* Lectr.

**Theology**

Lombard, J. A., BA BD *Pret.*, DD *Basle* §Prof.

## GENERAL INFORMATION

By Act 12 of 1916 of the legislature of the Union of South Africa the Univ. of the Cape of Good Hope, incorporated by act of the Cape legislature in 1873, became and was incorporated in the Univ. of South Africa, with administrative seat at Pretoria.

Since 1951 the univ. has been concerned with external students only, no provision being made for attendance. The div. of studies supplies tuition (in most subjs.) by correspondence in both English and Afrikaans; but it is not compulsory for students to obtain such tuition. Students resident outside the continent of Africa are not normally admitted to exams.

The following instns. train students for the exams. of the Univ. of South Africa: Univ. Coll. of the North, Private Bag 5060, Pietersburg, Transvaal (Rector: Prof. E. F. Potgieter, MA DPhil); Univ. Coll. of Fort Hare, P.O. Fort Hare, C.P. (Rector: Prof. J. J. Ross, LLB BAdmin O.F.S., MA Yale, HSED Stell., BA BSc BEd); Univ. Coll. of the Western Cape, Private Bag, Bellville South, Cape Town (Rector: J. G. Meiring, BSc BEd PhD); Univ. Coll. of Zululand, Private Bag, Ngoye, P.O. Felixton, Natal (Rector: P. W. Cooke, MA PhD); Pius XII Coll. (associated), P.O. Roma, Basutoland (Rector: Rev. L. A. Dozois, AM PhD STD SSL Rome); Heidelberg Teachers' Training Coll., P.O. Box 220, Heidelberg, Transvaal (Rector: J. J. de Jager, BA HED); Helderberg Coll., P.O. Box 22, Somerset West, C.P. (Rector: E. L. Tarr, MA Maryland); Huguenot Coll., P.O. Box 5, Wellington, C.P. (Rector: Rev. E. J. du Toit, BA BD Stell.).

FACULTIES AND DEANS. *Arts* (incl. fine arts & music), Prof. S. J. H. Steven; *comm. & admin.*, Prof. F. E. Rädcl; *div.*, Dr. W. Cosser; *educn.*, Prof. D. H. Cilliers; *law*, Prof. W. A. Joubert; *sci.*, Prof. J. H. v. d. Merwe; *soc. sci.*, Prof. J. A. van der Walt.

ADMISSION. See Appendix II.

FIRST DEGREES. BA, BA(SocSc), BAdmin, BCom, BEcon, BSc, 3 yrs.; hons. BA, hons. BA(FA), hons. BA(SocSc), hons. BCom, hons. BAdmin, 1 yr. after corresponding bachelor's

degree; BMus, 4 yrs. Hons. BA may be conferred in African studies, Afrikaans-Nederlands lang. & lit., bibliog., classics, criminol., econ., Engl. lang. & lit., fine art, French lang. & lit., geog., German lang. & lit., Greek, hist., Italian lang. & lit., Latin, maths., philol., philos., pol. sci., psychol., Semitic langs., sociol.

HIGHER DEGREES. BD, 3 yrs. (postgrad.); LLB, 4 yrs. (postgrad.); BEd, 1 yr. (postgrad.) after dipl. in educn. or other approved course; MA, MA(SocSc), MAdmin, MCom, MEcon, MSc, 1 yr. after corresponding hons. bachelor's degree; MMus, 2 yrs. after BMus; MDiv; LLM, MEd, by thesis; DLitt&Phil, DMus, DD, LLD, DEd; PhD in admin., comm., sci., soc. sci. Doctorates (except PhD) are granted for approved theses to masters of at least 2 yrs.' standing. For the PhD degree the period is 3 yrs. The master's and doctor's degrees may also be conferred as honorary degrees.

Postgrad. study may be undertaken in acctg., African studies, Afrikaans-Nederlands, appl. maths., bibliog., bot., bus. econ., chem., classics, criminol., econ., educn., Engl., fine arts, French, geog., geol., German, Greek, hist., Italian, Latin, maths., philol., philos., phys., pol. sci., pub. admin., Semitic langs., sociol., soc. work, stats., zool.

DIPLOMAS. Educn. (1 yr.), Bantu studies (lower, 2 yrs.; higher, 1 yr.), librarianship (2 yrs.). The univ. also prepares students for the following certs. which are awarded by the relevant professional bodies: theory of accountancy (4 yrs.), attorney candidates' (3 yrs.), and civil servants' (3 yrs.) certs.

SCHOOL AND MUSIC EXAMS. The univ. controls and conducts a jr. cert. exam. of a standard 2 yrs. below matric., exams. for music certs. and licentiate diplomas (for teachers of music and solo performers), and exams. in speech trg.

PUBLICATIONS. *Calendar* (Jan.; free); *Unisa* (Nov.; free); *Moussion*; *Communications of the Univ. of South Africa* (series); *Prospectus*.

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Bldgs. approaching completion*: extension to library.

NEW DEPARTMENTS AND CHAIRS. Theol.; dept. of chem.; dept. of Russian studies.

RESIGNATIONS. Prof. N. J. van der Merwe (law), apptd. prof. of law, Pret.; Dr. A. P. du Plessis, apptd. lectr. in soc., U.C. of Zululand; Dr. C. W. H. Schmidt, apptd. to dept. of law, Pret.; Dr. H. L. Crause, apptd. prof. of soc., U.C. of the North; Dr. M. J. Louw, apptd. sr.

lectr. in geog., U.C. of the North; Prof. E. F. Potgieter, apptd. rector, U.C. of the North; T. G. Whittock, apptd. sr. lectr. in Engl., Makerere Coll.; Miss A. Lubbe, for studies to Harv.; Dr. Elize Botha, on marriage; Prof. P. de V. Pineaar, apptd. prof. sp. trg., Pret.

HONORARY DEGREES. *DLitt&Phil*—T. H. le Roux, formerly prof. of Afrikaans-Nederlands, Pret., and member S.A. Academy Arts & Sci. *PhD*—M. W. Woerdeman, rector magnificus,

Amst. ; T. E. W. Schumann, dep. chairman,  
Atomic Energy Council and member S.A.  
Academy Arts & Sci.

New admissions, 1974.

Students from other countries, 872.

## Statistics

### STUDENT NUMBERS, 1960

	<i>External</i>
Men . . . .	8284
Women . . . .	887

Total . 9171

Distribution by Faculties. *Arts*, 4440 ; *comm.*  
& *admin.*, 3314 ; *educn.*, 169 ; *law*, 698 ; *sci.*,  
476 ; *soc. sci.*, 74. Total : 9171.

*Included in the figures above are :—*

Postgraduate students, 650.

DEGREES AWARDED (1959). BA, 155 ; *hons.*  
BA, 26 ; MA, 6 ; DLitt&Phil, 3 ; *hons.* BA(FA),  
2 ; BCom, 32 ; BEcon(IA), 2 ; BAdmin, 5 ;  
*hons.* BCom, 2 ; MCom, 1 ; DPhil, 1 ; BEd, 6 ;  
MEd, 7 ; DEd, 2 ; BA(SocSci), 4 ; MA(SocSci),  
1 ; LLB, 7 ; BSc, 17 ; *hons.* BSc, 3 ; MSc, 2 ;  
PhD, 1.

DIPLOMAS AWARDED (1959). *Educn.*, 4 ;  
librarianship, 4 ; higher librarianship, 5 ; Bantu  
studies, 1 ; banking, 8.

CERTIFICATES AWARDED (1959). CTA, 92 ;  
law ex. pub. servants, 25 ; sr. law ex. pub. ser-  
vants, 1 ; cert. cand. attorneys, 10.

# UNIVERSITY OF STELLENBOSCH\*

Founded 1916

Postal and Telegraphic Address : University, Stellenbosch, Cape Province, South Africa

Telephone : 1251 Stellenbosch

CHANCELLOR—Hon. T. E. DONGES, MA LL.D. *Lond.*, Hon. DPhil

VICE-CHANCELLOR—J. S. GERICKE, BA

PRESIDENT OF CONVOCATION—R. W. WILCOCKS, PhD *Berl.*, Hon. DCL *Oxon.*, Hon. DComm

PRINCIPAL—H. B. THOM, MA DPhil

REGISTRAR—S. J. PRETORIUS, PhD *Lond.*, MSc

LIBRARIAN—G. V. MARAIS, BSc *Col.*, MA, FSALA

ACCOUNTANT—T. G. D. VAN SCHALKWYK, BComm

## TEACHING STAFF

[† = Part-Time]

### Afrikaans-Dutch

Kempen, W., MA LittD Jan Marais Prof.  
 Erlank, W. J. du P., BA *Pret. & Rand*,  
 DLitt *Pret.* Prof.  
 Opperman, D. J., MA *S.A.*, DLitt *Cape T.* Prof.  
 De Villiers, M., MA PhD *Cape T.* Prof.  
 Van der Merwe, J. H., MA Lectr.  
 2 Jr. Tech. Assts.

Agriculture, see below

### Bantu Studies

Van Eeden, B. I. C., MA DPhil Prof.  
 Olivier, N. J. J., MA LLB Prof.  
 Bruwer, J. P. v. S., MA DPhil *Pret.* Prof.  
 Schuler, G. M. K., MA Lectr.  
 Olivier, M. J., MA Lectr.  
 Oosthuysen, P. J., MA Lectr.  
 6 Student Assts. Jr. Lectr.

### Botany

Jordaan, P. G., DSc Prof.  
 De Vos, Miriam P., DSc Sr. Lectr.  
 De Bruyn, J. A., MSc *Potchef.*, PhD *Chuc.* Sr. Lectr.  
 Smith, J. G., MSc DPhil *Utrecht* Lectr.  
 Van der Merwe, R. B., MSc Lectr.  
 1 Half Jr. Lectr., 2 Tech. Assts., 21 Student Assts.

### Chemistry

Krige, G. J. R., PhD *Gött.*, MSc Prof.  
 Rohwer, E. F. C. H., MSc *S.A.*,  
 DrRerNat *Freib.* Prof.

Van der Merwe, P. W., PhD *Gött.*, MSc Prof.  
 Kritzinger, J. H., DrIng *T.H.Aachen*,  
 MSc Sr. Lectr.  
 Barnardt, J. H., DSc Sr. Lectr.  
 Malan, H. P., MSc DEd Sr. Lectr.  
 Garbers, C. F., MSc *Pret.*, PhD *Zür.* Sr. Lectr.  
 Stegmann, G. F., BSc *S.A.*, MSc (on leave) Lectr.  
 Kemp, D. M., DSc Lectr.  
 Du Preez, J. G. H., DSc Lectr.  
 De Kock, D. M., MSc *Pret.* Lectr.  
 Schneider, D. F., MSc Lectr.  
 3 Half Jr. Lectrs., 5 Tech. Assts., 48 Student Assts.

### Classics

..... Prof.  
 van Rensburg, J. P. J., MA *Lond. & Stell.*,  
 DLitt Prof.  
 Smuts, F., LittD *Utrecht*, MA Prof.  
 Hugo, A. M., LittD *Utrecht*, MA Sr. Lectr.  
 Conradie, P. J., LittD *Utrecht*, MA Lectr.  
 1 Half Jr. Lectr., 8 Student Assts.

### Commerce

..... Helpmekaar Prof.  
 Schumann, D. E. W., PhD *Virginia Poly-*  
*tech.*, MComm Prof.  
 Smith, C. A., BComm (on leave) Prof.  
 Dempsey, W. C., MComm Sr. Lectr.  
 Loubser, M. G., BComm Sr. Lectr.  
 Nolte, D. J., BComm MEd Lectr.  
 Van Dijk, Hillette A. A. Lectr.  
 Joubert, W. A., BComm Lectr.

\* Member of the Association of Universities of the British Commonwealth

Bouwer, B., MComm Lectr.  
 Schoeman, H. S., BSc *Pret.* Lectr.  
 Wessels, P. J., BComm Lectr.  
 Rörich, R. B., BA LLB †Lectr.  
 Van Wyk, H. F., BComm †Lectr.  
 Malherbe, J. F., BComm LLB *Cape T.* †Lectr.  
 13 Student Assts.

**Dutch**, see Afrikaans-Dutch

### Economics

Sadie, J. L., EcD *E.H. Rotterdam*, MComm  
 (on leave) Arthur van der Lingen de  
 Villiers Prof.  
 De Reville, Mrs. Maria J. C.,  
 DrPol&Soc *Louvain* Sr. Lectr.  
 4 Student Assts.

### Education

Du Toit, P. S., MA MEd DPhil  
 (Hist. of E.) Prof.  
 Gunter, C. F. G., MA MEd *S.A.*, DEd  
 DPhil (Philos. of E.) Prof.  
 la Grange, A. J., MA DPhil (E. Psychol.) Prof.  
 Swartz, J. F. A., MA DPhil (Methods of E.) Prof.  
 Heese, J. de V., BA DEd Sr. Lectr.  
 Uys, Anna M., MA BEd *Cape T.* Sr. Lectr.  
 Badenhurst, J. L., BA MEd Sr. Lectr.  
 Visser, P. G., BA *S.A.*, MEd Sr. Lectr.  
 McLachlan, P., MSc BEd Sr. Lectr.  
 Göldner, Mrs. Maria S. M., MA DEd  
 Sr. Lectr.  
 Müller, F. B., BSc *Pret.*, DEd *Potchef.* Sr. Lectr.  
 McMagh, Gertrude P., BA *Rand*, DEd Sr. Lectr.  
 Smit, J. N., BA Lectr.  
 Pickard, Mrs. Dorothy C., MA *Cape T.* Lectr.  
 Mocke, Mrs. Deborah, BA *Pret.* Lectr.  
 Smit, Mrs. Idalette, MA Lectr.  
 Coetzee, Marie E., BA *Potchef.* Lectr.  
 1 Tech. Asst., 4 Student Assts.

### Engineering

Straszacker, R. L., MSc(Eng) *Rand*,  
 DrEng *T.U. Berlin* Elizabeth Marais Prof.  
 Heydorn, A., DiplEng *T.H. Stuttgart*,  
 M(SA)IEE Prof.  
 Truter, R., BA BScEng *Cape T.*  
 Willie Roux Prof.  
 Sippel, J. J., BSc(Eng) *Rand* Sr. Lectr.  
 Olén, C. I., MSc(Eng) *Rand* Sr. Lectr.  
 Steenkamp, W., BSc(Eng) *Rand*, SM *M.I.T.*  
 Sr. Lectr.  
 Lutsch, W. J. F. S., BSc(Eng) *Rand* Sr. Lectr.  
 Loedolff, G. F., BSc BScEng Sr. Lectr.  
 Giljam, B., DiplMechEng *T.H. Delft*  
 Sr. Lectr.  
 Toerien, L. I., BSc BScEng Sr. Lectr.  
 Coetsee, A., BScEng *Cape T.* Sr. Lectr.  
 DeVilliers, J. W. R., BScEng Sr. Lectr.  
 Uys, J. F., BSc(Eng) *Rand* Sr. Lectr.  
 Braae, R., MScEng *Copenhagen*,  
 BSc *S.A.* Sr. Lectr.  
 Krämer, B., BScEng Sr. Lectr.

Reuter, H. O., BScEng Sr. Lectr.  
 . . . . . Sr. Lectr.  
 De Beer, C. H. M., BSc BEng Lectr.  
 Pienaar, J. F., BSc BEng Lectr.  
 Slabber, M. J. J., BSc BEng Lectr.  
 5 Mechanics, 3 Tech. Assts., 32 Student Assts.

### English

Hooper, A. G., MA PhD *Leeds* Prof.  
 Johnman, C. K., MA BEd *Cape T.* Sr. Lectr.  
 Martin, W. R., MA *S.A.* Sr. Lectr.  
 Thompson, J. B., BA *Natal* Lectr.  
 Allen, J. M., BA *Rand & Oxon.* Lectr.  
 Gillham, D. G., BA *S.A.* Lectr.  
 Paterson, Mary W., MA *S.A.* Lectr.  
 De Wet, Mrs. Hilda, BA Lectr.  
 Lectr.

### Forestry

Wicht, C. L., BA *Oxon.*, DrEng *Dresden*, BSc  
 Merensky Prof.  
 Hartwig, G. L. F., DrOecPubl *Munich*,  
 BScFor  
 Transvaal & O.F.S. Chamber of Mines  
 Prof.  
 Deetlefs, P. P. du T., DF *Duke*, BScFor Prof.  
 Borgin, K. B., MagScient *Oslo*, DSc Prof.  
 De Waal, P. H., BScFor Sr. Lectr.  
 Van Laar, A., DiplEng *Wageningen*,  
 DScFor Lectr.  
 Donald, D. G. M., BScFor *Aberd.* Lectr.  
 Grut, M., CandPhil *Copenhagen*, BScFor Lectr.  
 Saunders, G. R., MScFor Jr. Lectr.  
 2 Tech. Assts., 1 Student Asst.

### French

Oosterhof, F. M. P., MA *Pret.*, DU *Paris* Prof.  
 Cuenod, Valentine, BA *Cape T.*, DU *Paris* Lectr

### Geography

Nel, A., MA DPhil Prof.  
 Conradie, D. J., MA DPhil Sr. Lectr.  
 Jansen, J. P., MA DPhil Sr. Lectr.  
 Barnard, W. S., MA Lectr.  
 1 Tech. Asst., 18 Student Assts.

### Geology

Scholtz, D. L., DSc Prof.  
 Taljaard, M. S., DSc Prof.  
 Maske, S., MSc Sr. Lectr.  
 Rust, I. C., BSc Lectr.  
 1 Half Jr. Lectr., 2 Tech. Assts., 15 Student  
 Assts.

### German

Trümpelmann, G. P. J., BA *S.A.*,  
 PhilD *Leip.*, DPhil *Pret.* Prof.  
 Haller, H. M., PhD *Natal* Sr. Lectr.  
 Boeddinghaus, W. Lectr.

### History

Thom, H. B., MA DPhil Prof.

Van der Merwe, P. J., LittD *Ley.*, MA  
Jan Marais Prof.  
Kotzé, D. J., MA DPhil Prof.  
Swart, M. J., MA DPhil *Pret.* Sr. Lectr.  
Pretorius, J. St. E., BA O.F.S., MA Lectr.

### Home Economics

Jooste, Martha E., PhD *Oregon State*,  
MScHomeEc Sr. Lectr.  
Louw, Gertruida J., BScHomeEc Sr. Lectr.  
Wittmann, Erika E. M., BScHomeEc Lectr.  
Van der Merwe, Maria, BScHomeEc Lectr.  
Van Zyl, Mrs. Marieta L., BScHomeEc Lectr.  
LeRoux, Mrs. Isa A., BScHomeEc Lectr.  
Gillioeme, Mrs. Warnia C., BScHomeEc Lectr.  
Smit, Mrs. Maria J., BScHomeEc †Lectr.  
Maree, Mrs. Christine A. †Lectr.  
Ehlers, Catharina L., BScHomeEc Jr. Lectr.  
8 Student Assts.

### Law

De Wet, J. C., LL.D. *Stell. & Ley.*, BA Prof.  
Yeats, J. P., BA LL.D. Prof.  
Van der Westhuizen, W. M., BA LL.D. Prof.  
De Villiers, A. B., BA LL.D. Prof.  
Schwietering, K. F. J., BA S.A., LL.B. Sr. Lectr.

### Librarianship

Kesting, J. G., MA *Cape T.* Sr. Lectr.  
Marais, G. V., BSc *Col.*, MA †Lectr.  
Du Plessis, F., BA †Lectr.

### Mathematics and Applied Mathematics

Cillhé, G. G., Jr., DPhil *Oxon.*, MSc Prof.  
Le Roux, J. M., PhD *Lond.*, MSc Prof.  
Goldner, S. R. F., PhD N.Y., MSc Prof.  
Jacobsz, C., BSc O.F.S., BSc(Eng) *Rand*,  
MSc S.A. Sr. Lectr.  
Kannenbergh, K. R., DrRerNat *Bonn* Sr. Lectr.  
De Villiers, A. J., BScEng Lectr.  
Nel, L. D., BSc Lectr.  
..... Lectr.  
Dreyer, T. P., BSc (on leave) Jr. Lectr.  
1 Half Jr. Lectr., 34 Student Assts.

### Medicine, see below

### Music

Van der Spuy, G. Z., MMus Prof.  
..... Sr. Lectr.  
Behrens, R. H., BA BMus Sr. Lectr.  
De Villiers, Margaretha E. (Speech Trg.) Lectr.  
Swanepoel, C., MMus Lectr.  
De Villiers, Gertruida E. Lectr.  
Papé, Mrs. Naomi Lectr.  
Cluver, Elizabeth H. T. Lectr.  
Bowman, L. Lectr.  
Müller, D. Lectr.  
Du Plessis, H., BMus S.A., BA Lectr.  
Bouws, J. Lectr.  
Jacobsz, Anna I. Lectr.  
..... Lectr.  
Lubbe, Elizabeth M. B. Jr. Lectr.

Lambrechts, Mrs. Anny Temp. Lectr.  
Hellström, Mrs. Joy Temp. Lectr.

### Philosophy, Moral and Metaphysical

Kirsten, J. F., MA DPhil Prof.  
Degenaar, J. J., MA DPhil (on leave) Sr. Lectr.

### Physical Education

Craven, D. H., MA DPhil Prof.  
Postma, J. W., DEdPh Sr. Lectr.  
Wieffering, C. J. Sr. Lectr.  
Steinwender, Mrs. Hilde, MEdPh Lectr.  
Kelder, J. C. Lectr.  
Van der Merwe, J. J. R., BSc MEdPh Lectr.  
Nel, Hester I., MSc *Wellesley*, BSc  
(on leave) Lectr.  
Wiid, Beatrix M., BSc Lectr.  
Roberts, Rosemarie, BA BEdPh Lectr.  
2 Student Assts.

### Physics

Cilliers, A. C., PhD *Fran.*, MSc Prof.  
Zeeman, P. B., DSc Prof.  
Frahn, W. E., DrRerNat *Aachen* Prof.  
Scheffler, T. B., DSc Sr. Lectr.  
Marais, D. J., PhD *Camb.*, MSc Sr. Lectr.  
Roelofse, C. J., MSc Sr. Lectr.  
Ritter, G. J., DPhil *Oxon.*, MSc Lectr.  
Smit, M. C. B., MSc Lectr.  
Stemmet, M. C., MSc Jr. Lectr.  
2 Half Jr. Lectrs., 4 Mechanics, 2 Tech. Assts.,  
51 Student Assts.

### Psychology

Van der Merwe, A. B., MB ChB *Cape T.*  
MA DPhil Prof.  
Theron, P. A., MA DPhil Prof.  
Du Toit, J. M., PhD *Cape T.*, MSc Prof.  
Van Biljon, I. J., MA MEd DPhil Sr. Lectr.  
Van Niekerk, H. G., BA MEd Sr. Lectr.  
Botha, A. G., BA MEd Sr. Lectr.  
..... Lectr.  
..... Lectr.  
3 Tech. Assts., 10 Student Assts.

### Semitic Languages

Weiss, P. F. D., DLitt *Pret.*, MA *Pret. & Stell.*,  
BD Prof.  
Fensham, F. C., MA DPhil *Pret.*, PhD *Johns H.* Lectr.

### Social Work and Sociology

Theron, Erika, MA DPhil Prof.  
Cilliers, S. P., MA LL.B DPhil Prof.  
De Villiers, J. J., MASocWork DPhil Lectr.  
..... Lectr.  
Joubert, D. D., MA Lectr.  
Müller, Anette, MASocWork Lectr.  
3 Tech. Assts., 11 Student Assts.

### Theology

Müller, J. J., ThDr *Amst.*, DD S.A., MA Prof.  
Potgieter, F. J. M., PhD *Cape T.*, ThDr *Amst.*,  
MA Prof.

Verhoef, P. A., MA <i>S.A.</i> , ThDr <i>Amst.</i>	Prof.	Wasserman, V. D., MScAgric	Sr. Lectr.
Kotzé, J. C. G., ThD <i>Prin.</i> , BA	Prof.	Joubert, J. G. V., BSc <i>S.A.</i>	Lectr.
Van der Merwe, W. J., PhD <i>Hartford</i> , BA	Prof.		
Hanekom, T. N., DD <i>S.A.</i> , MA BD	Prof.		

**Zoology**

du Toit, C. A., PhD <i>Cape T.</i> , MSc	Prof.	Nel, R. I., DScAgric	Sp. Prof.
Malan, Magdalena E., DSc	Sr. Lectr.	Smit, C. J. B., BSc <i>Pret.</i> , PhD <i>Calif.</i>	Prof.
.....	Sr. Lectr.	Koeppen, B. H., MScFoodTechnol	Lectr.
Engelbrecht, D. v. Z., DSc	Lectr.		
De Kock, J. M., MSc	Lectr.		
4 Half Jr. Lectrs., 3 Tech. Assts., 14 Student Assts.			

**AGRICULTURE****Agricultural Bio-Chemistry**

Perold, I. S., DScAgric	Prof.	Louw, A. J., DScAgric	Prof.
Stubbs, O. J., PhD <i>Corn.</i> , BScAgric <i>Pret.</i>	Sr. Lectr.	Louw, H. A., PhD <i>Aberd.</i> , MScAgric	Sr. Lectr.
		Van der Watt, J. J., DScAgric	Sr. Lectr.
Buy, G. S., BScAgric <i>Natal</i> , MScAgric <i>Pret.</i>	Lectr.	Van Regenmortel, M. H. V., MScAgric	Sr. Lectr.
		Schoombee, N. F., BScAgric	Lectr.

**Agricultural Chemistry**

Slabber, M. H., DScAgric	Prof.		
Theron, A. A., PhD <i>Corn.</i> , MSc	Sr. Lectr.		

**Agricultural Economics**

De Waal, P. E., MS <i>Corn.</i> , MScAgric	Prof.	Reinecke, O. S. H., DScAgric <i>S.A.</i> , BSA <i>Tor.</i>	Prof.
Van Wyk, S. P., MA DPhil	Sr. Lectr.	De Wet, A. F., MScAgric	Prof.
		Strydom, D. K., PhD <i>Calif.</i> , MScAgric	Sr. Lectr.

**Agricultural Engineering**

Perold, R. P., BScEng <i>Cape T.</i> , BSc MScEng	Prof.		
Cillie, S. J. van N., BScEng <i>Cape T.</i> , BSc	Sr. Lectr.		
.....	Lectr.		
1 Asst. Lectr.			

**Animal Husbandry**

Swart, J. C., DScAgric	Prof.		
Van Rensburg, P. J. J., BScAgric	Sr. Lectr.		
Van der Merwe, F. J., DScAgric	Sr. Lectr.		
2 Student Assts.			

**Biometrics**

Prof.

**Dairy Husbandry**

.....	Prof.		
Dixon, A., MSc <i>Pret.</i> & <i>Wis.</i>	Sr. Lectr.		

**Entomology**

Dürr, H. J. R., DSc	Prof.		
Theron, J. G., PhD <i>Lond.</i> , MSc	Sr. Lectr.		
Giliomee, J. H., MScAgric	Lectr.		
Potgieter, J. T., PhD <i>Ohio</i> , MSc	Temp. Sr. Lectr.		

**Field Husbandry**

Sim, J. T. R., BSc <i>Ill.</i> , MSc <i>S.A.</i> , DScAgric	Prof.		
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**Food Technology**

Nel, R. I., DScAgric	Sp. Prof.		
Smit, C. J. B., BSc <i>Pret.</i> , PhD <i>Calif.</i>	Prof.		
Koeppen, B. H., MScFoodTechnol	Lectr.		

**Genetics**

Laubscher, F. X., DScAgric	(on leave) Prof.		
Stevens, J. M., PhD <i>Birm.</i> , MScAgric	Sr. Lectr.		
Pienaar, R. de V., BSc PhD <i>Rand</i>	Sr. Lectr.		
2 Student Assts.			

**Plant Pathology**

Louw, A. J., DScAgric	Prof.		
Louw, H. A., PhD <i>Aberd.</i> , MScAgric	Sr. Lectr.		
Van der Watt, J. J., DScAgric	Sr. Lectr.		
Van Regenmortel, M. H. V., MScAgric	Sr. Lectr.		
Schoombee, N. F., BScAgric	Lectr.		

**Plant Physiology**

Bezuidenhout, S. J. P. K., BSc <i>Potchef.</i>	Lectr.		
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**Pomology**

Reinecke, O. S. H., DScAgric <i>S.A.</i> , BSA <i>Tor.</i>	Prof.		
De Wet, A. F., MScAgric	Prof.		
Strydom, D. K., PhD <i>Calif.</i> , MScAgric	Sr. Lectr.		

**Poultry Husbandry**

Liebenberg, C. R., MScAgric	Prof.		
Erasmus, J. E., DScAgric	Sr. Lectr.		

**Veterinary Science**

De Villiers, O. T., DVSc <i>S.A.</i>	Prof.		
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**Viticulture**

Theron, C. J., MScAgric	Prof.		
De Waal, C. T., MScAgric	Sr. Lectr.		
Orffer, C. J., PhD <i>Calif.</i> , MScAgric	Sr. Lectr.		

**MEDICINE****Anæsthetics**

Foster, P. A., MB ChB <i>Cape T.</i>	Lectr.		
Cluver, J. A., MB ChB <i>Cape T.</i>	†Lectr.		
Hacking, E. B., MA MB BChir <i>Camb.</i>	†Lectr.		
Hacking, Mrs. Evangeline G., MB ChB <i>Cape T.</i>	†Lectr.		
Henderson, G. C., MB ChB <i>Cape T.</i>	†Lectr.		
Allan, R. D., MB ChB <i>Rand</i>	†Lectr.		
Woeke, J. C., MB ChB MMed <i>Cape T.</i>	†Lectr.		
Du Plessis, C. G. G., MB ChB MMed <i>Cape T.</i>	†Lectr.		

**Anatomy**

Kirsten, J. F. van E., MB ChB <i>Cape T.</i> , FRCSEd	Prof.		
Toerien, M. J., PhD <i>Rand</i> , MSc	Sr. Lectr.		

De Kock, E. C., MB ChB *Cape T.*, BSc  
Temp. Lectr.  
2 Tech. Assts., 3 Demrs.

**Dentistry**

De Wet, P. D., BDS *Rand* †Lectr.  
Tredoux, P. L., BChD *Pret.* †Lectr.

**Diseases of the Ear, Nose and Throat**

Wykerd, H. C., MD *Gron.*, FRCSEd †Lectr.  
De Villiers, J., MB ChM *Cape T.* †Lectr.  
Maytham, D. V., MB ChB *Cape T.* †Lectr.

**Diseases of the Eye**

De Kock, J. K., MB ChB *Cape T.* †Lectr.  
Ferreira, A. B. W., MB ChB *Cape T.* †Lectr.  
Du Toit, P. B., MB ChB *Cape T.* †Lectr.

**Diseases of the Skin**

Marshall, J., MD BS *Lond.* †Lectr.  
Van der Meulen, H., MD *Amst.* †Lectr.

**Gynæcology and Obstetrics**

De Villiers, J. N., MB ChB MO&G *Cape T.* Prof.  
Roux, J. P., MB ChB *Cape T.* Lectr.  
Du Toit, P. F. M., MB ChB  
MO&G *Cape T.* Lectr.  
Du Toit, D. A. H., MB ChB *Cape T.*,  
MD *Ley.* †Lectr.  
Nel, R. W. A., MB ChB *Cape T.* †Lectr.

**Medicine**

Brink, A. J., MB BCh *Rand*, MD *Pret.*,  
MRCP Prof.  
Wicht, C. L., MB ChB MMed *Pret.* Lectr.  
Le Roux, D. G., MB ChB *Cape T.*,  
MRCP †Lectr.  
Swanepoel, A., MB ChB *Cape T.*, MRCP †Lectr.  
Dry, T. J., MB ChB *Cape T.*, MS *Minn.* †Lectr.

**Neuro-Psychiatry**

Cluver, P. F., BA BM BCh *Oxon.* †Lectr.

**Neuro-Surgery**

De Villiers-Hammann, H. L., BA  
MD *Munich* †Lectr.

**Orthopædics**

Bell, H., MB BCh *Belf.*, MChOrth *Liv.*,  
FRCSEd †Lectr.  
Dall, G., MB ChM *Cape T.* †Lectr.  
Gold, J. M., MB MChOrth *Liv.*, FRCS †Lectr.  
Steytler, J. C. S., MB ChB *Rand*,  
FRCSEd †Lectr.  
Anderson, G. C., MB ChB *Cape T.*,  
MCh *Liv.*, FRCSEd †Lectr.  
Commerell, J. J., MB ChB *Cape T.*,  
MCh *Liv.*, FRCSEd †Lectr.

**Pædiatrics**

Opie, W. H., MB ChB MMed *Cape T.* †Lectr.  
Maggs, R. F., MB ChB *Cape T.*,  
MRCPEd, FRFPGlas †Lectr.  
Suckling, P. V., MD, MRCP †Lectr.  
Murray, A. B., MB ChB *Cape T.*,  
MRCPEd †Lectr.

**Pathology**

Weber, H. W., DMed *Jena* Prof.  
Retief, C. P., MB ChB MMed *Cape T.* Sr. Lectr.  
Schwär, T. G., MB ChB *Pret.* †Lectr.  
Grové, S. S., FRCS Lectr.  
Brede, H. H. D., DrMed *Cologne* Lectr.

**Pharmacology**

**Physical Medicine**

**Physiology**

Brink, H. E., DSc Prof.  
Engelbrecht, F. M., DSc Sr. Lectr.  
Nienaber, M. W. P., BM BCh MA *Oxon.*,  
BSc Sr. Lectr.  
Esterhuizen, A. C., DSc Lectr.  
Thiart, B. F., BSc Lectr.  
Wasserman, H. P., BSc MB ChB *Pret.* Lectr.  
5 Student Assts., 2 Tech. Assts.

**Public Health**

De Villiers, J. P., BA MB ChB *Cape T.*,  
MD *Dub.* Sp. Lectr.

**Radiology**

Müller, C. J. B., MB ChB DMR *Cape T.* †Lectr.  
Beyers, J. A., MB ChB *Cape T.*, MD †Lectr.  
MMed *Pret.* †Lectr.  
Keet, A. D., MB ChB *Cape T.*,  
MD *Amst.* †Lectr.  
Krige, H. N., MB ChB *Dub.*, DMR *Camb.* †Lectr.

**Surgery**

van Zyl, F. D. du T., MB ChM *Cape T.*,  
FRCSEd Prof.  
Dreyer, B. v. R., MD ChM *Cape T.*,  
FRCSEd Lectr.  
Malherbe, E. B., MB ChM *Cape T.* †Lectr.  
Van der Riet, R. le S., MB ChB, FRCSEd †Lectr.  
van Zyl, J. J. W., MB ChB *Cape T.*,  
FRCSEd †Lectr.  
Davies, D., MB ChB *Cape T.*, FRCS †Lectr.

**Thorax Surgery**

Botha, G. S. M., MD ChB *Cape T.*,  
ChM *Birm.*, FRCS, FRFPGlas †Lectr.



**Urology**

Burger, A. J. S., MB ChB <i>Cape T.</i> , FRCSed	†Lectr.
De Klerk, J. N., BSc MB ChB <i>Cape T.</i> , FRCSed	†Lectr.
Joubert, J. D. de B., BA MB ChB <i>Cape T.</i> , FRCSed	†Lectr.

**MILITARY STUDIES**

De Vos, Col. P. J. G., DSc Dean of Military Academy	
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**Aerial Navigation and Aeronautics**

Bergh, Capt. W. J., MSc <i>Pret.</i>	Lectr.
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**Economics**

Pienaar, Major E., MComm <i>Pret.</i>	Lectr.
Breedt, Capt. J. v. d. B., MComm <i>Potchef.</i>	Lectr.

**Geography**

Senekal, Capt. W. F. S., MA	Lectr.
Swanevelder, Capt. C. J., MA	Lectr.

**History**

Bakkes, Major C. M., MA <i>Pret.</i>	Lectr.
Nel, Lt.-Comdr. H. F., BA BEd <i>Cape T.</i>	Lectr.

**Mathematics**

Muller, Major C. J., MSc	Lectr.
O'Connell, Capt. R. A., BSc	Lectr.

**Physics**

Kruger, Lt.-Instr. J., MSc <i>Potchef.</i>	Lectr.
Jonker, Capt. C., BSc	Lectr.

**Sea Navigation**

De Villiers, Lt.-Instr. J., BA <i>S.A.</i>	Lectr.
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**ADMINISTRATIVE AND OTHER STAFF**

Liaison Officer: P. J. Lombard, MA. Asst.  
Registrar: A. J. Lubbe, BComm. Sr. Admin.  
Officer: J. E. Potgieter, MSc MComm *Pret.*  
Asst. Librarian: F. du Plessis, BA. Asst.

Accountant: S. P. van Blerk, BComm. Sr.  
Clerk: J. N. Malan, BA *S.A.* Cttee. Clerk:  
F. J. G. Mostert, BA.

**GENERAL INFORMATION**

The Univ. of Stellenbosch had its origin in the Stellenbosch Gymnasium founded in 1866. In 1881, by private act of parliament, the arts dept. of the gymnasium was granted a charter as Stellenbosch Coll. In 1887 (the yr. of the golden jubilee) Her Majesty consented to the coll.'s being named 'The Victoria Coll. of Stellenbosch'. By the Univ. of Stellenbosch Act, No. 13 of 1916, the coll. was incorporated on April 2, 1918, as the Univ. of Stellenbosch, and in addition to fulfilling its previous functions is entitled to examine its own students and grant degrees.

By Act No. 45 of 1926, the Elsenburg Sch. of Agric. and the fac. of agric. of the univ. were amalgamated to constitute the Stellenbosch Elsenburg Coll. of Agric. of the Univ. of Stellenbosch, which 'shall be for all purposes the fac. of agric. of the univ. and shall have all such rights and privileges and be subject to all such duties as are laid down by the Univ. of Stellenbosch Act, No. 13 of 1916'. By this amalgamation the fac. of agric. was brought into more direct touch with practical farming.

In close connexion with the univ. is the Western Province Fruit Res. Stn. of the union dept. of agric., which offers facilities for postgrad. res. in all branches of fruit production and fruit and vegetable processing. Several members of staff of the res. stn. are members of the univ. teaching staff.

**CONSTITUTION.** The univ. consists of the chancellor, the vice-chancellor, the rector, the

council, the senate and convocation, together with the profs., other lectrs. and students of the univ. The rector is *ex officio* chairman of senate.

**INCOME** (1959). £1,003,314 (govt. grants, 49·8 per cent.; annual grants from public bodies, 0·6 per cent.; interest on investments, 0·2 per cent.; fees, 21·1 per cent.; other, 28·3 per cent. (incl. boarding fees)).

**LANGUAGE OF INSTRUCTION.** Chiefly Afrikaans.

**FACULTIES AND DEANS** (1960). *Agric.*, Prof. C. J. Theron (viticulture); *arts & philos.* (incl. depts. of Bantu studies and soc. studies), Prof. W. Kempen (Afrikaans-Dutch); *comm.*, Prof. C. G. W. Schumann; *educn.*, Prof. P. S. du Toit; *engin.*, Prof. R. Truter; *for.*, Prof. G. L. F. Hartwig; *law*, Prof. W. M. van der Westhuzen; *med.*, Prof. F. D. du T. van Zyl (surg.); *sci.* (including dept. of dom. sci.), Prof. A. C. Cilliers (phys.); *theol.*, Prof. J. C. G. Kotzé.

**LIBRARIES.** Christian Marais and Carnegie. 144,576 vols. and 1400 periodicals. The univ. receives each yr. nearly 538 different annual and other publicns.

**LABORATORIES.** Chem. Inst. (De Beers bldg.) for biochem. scis.; Merensky bldg. (phys.); home econ. bldg.; educn. bldg.; phys. educn. bldg.; agric. bldg.; lab. and workshop of fac. of engin.; natural scis. bldg.; D. F. Malan bldg. (physiol. & anat.); Van der Sterr bldg. (psychol.).

**TEACHING HOSPITAL.** The Karl Bremer H. at Bellville, 17 mls. from Stellenbosch, provides facilities for undergrad. and grad. teaching for the fac. of med. of the univ.

**SPECIAL EQUIPMENT, COLLECTIONS, ETC.** Bot. gdn. and 3 hot-houses containing large collection of the peculiar xerophytic flora of S.A. Herbarium. Dept. of agric. chem.: bldg. and equipment for manurial pot-experiments. Dept. of Bantu studies: collection of specimens of native art and industry. Zool. and geol. museums. Vivarium. Pomol. dept. and Western Province res. stn. for study of deciduous and other fruit trees. Viticulture dept. for studies in wine and spirit production. Dept. of educnl. psychol.; child guidance clinic.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** 3 yrs. (4th yr. for honours.)—BA (Bantu langs., classics, comm., econ., ethiol., geog., hist., law, mod. langs., music, native admin., philos., phys. educn., psychol., soc. sci., speech trg. & dram. art; a candidate for honours specializes for 1 yr. after BA in one of the 2 majors which he took for the BA degree), BASoc Work, BSc (appl. maths., bot., chem., entomol., genetics, geol., maths., microbiol., phys., physiol., psychol., stat. maths., zool.); a candidate for honours specializes for 1 yr. after BSc in one of the 2 majors which he took for the BSc degree—honours possible in appl. maths., bot., maths., phys., stat. maths. only), BComm (accty., comm., econ., statistics, indust. psychol., transport); 3 yrs.—BMil; 4 yrs.—BMus, BScHomeEc, BScAgric (agron.-animal husb., agric.-biochem., pomol., agric. chem., viticulture, microbiol., poultry husb., dairying, entomol., agric. econ., genetics), BScFoodTech, BScFor; 5 yrs.—BSc BEng (civil, mech., electro-tech., agric.); 6 yrs.—MB ChB.

**HIGHER DEGREES.** 1 or 2 yrs.—BEd; 2 yrs. after BA(Law) or 3 yrs. after any other bachelor's degree—LLB; 2 yrs.—MA, MASocWork, MSc, MScHomeEc, MScAgric, MScFor, MComm, MEng; 3 yrs.—MEd, MMed (surg., med. obstet. & gynæcol., anæsth., pæd.); candidates are not allowed to register for MMed before 2 yrs. after obtaining MB ChB and after registration for 1 yr. with S.A. Med. & Dent. Council); 4 yrs.—BD; 2 yrs. after master's degree—DPhil, DLitt, DSc, DEd, DEdPh, DScAgric, DScFor, DComm, DEng, PhD(Eng), MD; 2 yrs. after BD—DD; 2 yrs. after LLB—LLD.

**HONORARY DEGREES.** DPhil, DLitt, DSc, DEd, LL.D., DComm may be conferred as honorary or 'earned' degrees.

**DIPLOMAS.** Higher dipl. in librarianship, sec. teacher's, 1 yr. postgrad.; dipl. in hosp. dietetics, 1 yr. after BScHomeEc; lower sec. teacher's, higher primary teacher's, teacher's dipl. in phys. educn., soc. work, for teachers of sp. classes, teaching of music, teaching of dramatic art & speech trg., 3 yrs.; lower dipl. in librarianship,

home econ., comm., dipl. for church organists, 2 yrs.; teaching of comm., 1 yr. after dipl. in comm., teaching of home econ., 1 yr. after dipl. in home econ.

**CERTIFICATES.** Sp. teacher's cert. in music, 3 yrs.; primary teacher's cert. (sp.) in music, primary teacher's cert. (sp.) in speech trg. & dram. art, sp. teacher's cert. in speech trg. & dram. art, elem. cert. in speech trg. & dram. art each 1 yr.; cert. in theory of acct., 4 yrs.

**RESEARCH.** Res. work forms an important part of the activities of the univ. In depts. of educnl. psychol., psychol., sociol., geog., hist., agric., Bantu studies, Afrikaans-Nederlands, geol., biol., law and econ., special attention is devoted to South African problems. The results of res. work are published regularly in the *Annals* of the univ. The univ. council awards special grants for carrying on scientific investigational work.

**FEES.** Registration (incl. sports fee and fees payable to students' representative council), £5 p.a. Composite (incl. tuition, exam., lab., library and, in final yr., graduation fees), p.a.: *Bachelor's degrees*: BA, BComm, £46; BAPhysEd, BASocWork, BScPhysEd, £50; BMil, £54; BSc, BScHomeEc, BScAgric, BScFoodTech, BScBEng, MB ChB (1st yr.), BScFor, LLB, £56; BMus, £60; BAMus, BA (Speech Trg. & Dramatic Art), £66; BEd (1 yr. postgrad. course), £40; BEd (2 yrs.' postgrad. course), £20; BD, registration fees for 4 yrs. plus £16 for 1 yr.; MB ChB (2nd-6th yr.), £85. *Honours degrees*: BA honours, BASocWork honours, BSc honours, BComm honours, £40 for 1 yr. *Master's degrees*: (following on an honours degree and MEd following on BEd), £10 for 1 yr.; (following on bachelor's degree), MA, MASocWork, MSc, MComm, £40 for 1st yr. and £10 p.a. for further yrs.; (students residing only 1 yr. for master's degree), MA, MASocWork, MSc, MComm, £50; MScHomeEc, MEdPh, MScAgric, MScFoodTech, MScFor, MEng, £50 for 1 yr. and for MScHomeEc and MEng £10 p.a. for each further yr. (students residing at Stellenbosch); MEng (students not residing at Stellenbosch), £32 p.a. for each yr. after 1st yr.; MMus, £66 for 1 yr.; MEd, £30 for 1st and 2nd yrs., £20 for 3rd yr. *Doctor's degrees*: £28 p.a. for 2 yrs.; DEng (students who completed res. work away from Stellenbosch), £52; PhD(Eng) (students who completed res. work away from Stellenbosch), £22 p.a. for 2 yrs. *Diploma courses*: dipl. in home econ., teacher's dipl. in home econ. & needlework, teacher's dipl. in phys. educn., sec. teacher's dipl., lower sec. teacher's dipl. (with BA subjects), lower sec. teacher's dipl. (with BSc subjects—3rd year); higher primary teacher's dipl. (also after BA), dipl. in comm., teacher's dipl. in comm., lower and higher dipls. in librarianship, £46; dipl. in soc. work, dipl. for teachers of sp. classes, £50; dipl. in hosp. dietetics, £1 : 5s. registration fees plus £1 : 10s. exam. fees.

**ACADEMIC YEAR.** 4 terms. Term dates (1961): Feb. 20–March 30; April 10–June 29; July 31–Sept. 22; Oct. 2–Dec. 8.

**PHYSICAL TRAINING.** Although phys. trg. is not compulsory the majority of the students participate in rugby, cricket, tennis, baseball, netball, boxing, swimming and athletics.

**HEALTH OF STUDENTS.** Assistance of fully trained nurse at disposal of all students who may require her services. Periodical inspections to ascertain general health of all students in univ. hostels.

**RESIDENCE.** *For men:* John Murray-Huis (tel.: 1392), accomm. 437, £110 p.a.; Wilgenhof

(tel.: 0032), 104, £104 p.a.; Helderberg (tel.: 0045), 204, £110 p.a.; Huis Visser and Huis Marais (tel.: 0046 and 0053), together accomm. 247, £110 p.a.; Simonsberg (tel.: 0072), 278, £110 p.a. *For women,* each £106 p.a.: Huis de Villiers (tel.: 0047), accomm. 116; Huis ten Bosch (tel.: 0015), 96; Huis van Niekerk (tel.: 0027), 160; Harmonie (tel.: 0041), 69; Monica (tel.: 0028), 120; Lydia (tel.: 1223), 154; Macdonaldhuis (tel.: 0033), 30; Greylock (tel.: 0043), 27; Minerva (tel.: 0088), 236.

**PUBLICATIONS.** *Calendar* (annual, Nov.); *The Stellenbosch Student* (by students' rep. council); *Annals of the Univ. of Stellenbosch* (by senate).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Total value of all benefactions received: £85,812.

**MAJOR BUILDING DEVELOPMENTS.** *Buildings completed:* 3rd storey to admin. bldg.; extension to Carnegie library. *Approaching completion:* new men's residence, extensions to Merensky bldg.

**NEW DEPARTMENTS AND CHAIRS.** Dept. of transport. Chairs of acct.; agric. engin.; for. (2); phys.; law.

**RETIREMENTS.** Prof. C. G. S. de Villiers (zool.); Prof. B. B. Keet (theol.); Dr. A. C. Leeman (plant physiol.); Prof. F. E. J. Malherbe (Dutch); Prof. J. H. Neethling (genetics); Prof. J. L. Steenkamp (agric. chem.).

**RESIGNATIONS.** Dr. J. K. Basson (phys.), to C.S.I.R.; Maj. C. L. de Wet (mil. maths.), apptd. sr. lectr. in maths., Pret.; Fidela G. de Wet (Engl.) on marriage; Susara D. Dippenaar (home econ.), Lt. P. J. Joubert (mil. phys.), to C.S.I.R.; Dr. R. G. Kriel (psychol.), apptd. lectr. in psychol., O.F.S.; Dr. J. M. Louw (engin.), to private practice; R. W. Mohr (speech trg.), apptd. sr. lectr. in speech trg., Cape T.; Maj. D. E. Nel (mil. geog.), apptd. sr. lectr. in geog., Fort Hare; Dr. E. van der Spuy (phys.), apptd. sr. phys., S.A. Atomic Energy Bd.; Dr. E. van Heerden (educn.), apptd. lectr. in Afrikaans, Rand; Capt. M. C. van Zyl (mil. hist.), apptd. lectr. in hist., S.A.; Mrs. Magdalena Vorster (phys. educn.).

**DEATH.** Dr. W. C. Brink (sr. admin. officer).

**HONORARY DEGREES.** *DPhil*—Dr. the Hon. T. E. Dönges, minister of finance, Union of S.A.; Dr. A. L. Geyer, former high commissioner of the Union of S.A. in London; H.E. Dr. E. G. Jansen, governor-general, Union of S.A.; Dr. the Hon. H. F. Verwoerd, prime minister, Union of S.A. *DLitt*—Dr. B. B. Keet, former prof. of theol.; Dr. D. F. Malherbe, author and former prof. of Afrikaans, O.F.S. *DComm*—Dr. H. J. van Eck, chairman, Industrial Development Corp.

## Statistics

### STUDENT NUMBERS, June 1960

	Full-Time	Part-Time
Men . . .	2875	190
Women . . .	1300	70
Total . . .	4175	260

Distribution by Faculties. *Agric.*, 309; *arts*, 1304; *comm.*, 433; *educn.*, 682; *engin.*, 336; *for.*, 58; *law*, 44; *med.*, 246; *sci.*, 895; *theol.*, 47

*Included in the figures above are:—*

Postgraduate students, 713.

New admissions, 1105.

Students from other countries, 244. (Countries from which largest numbers came: S.W. Africa, 189; S. Rhodesia, 25).

**DEGREES AWARDED (1959).** *Agric.*: BScAgric, 52; BScFor, 8; MScAgric, 12; DScAgric, 2. *Arts*: BA, 230; BASocWork, 17; BMus, 5; BA (hons.), 29; MA, 19; DPhil, 3. *Comm.*: BComm, 56; BComm (hons.), 3. *Educn.*: MEd, 1. *Engin.*: BScEng, 42; MEng, 1; PhD(Engl.), 1. *Law*: LLB, 18. *Milit.*: BMil, 17. *Sci.*: BSc, 94; BScHomeEc, 7; BSc in Food Tech, 1; BSc (hons.), 13; MSc, 19; MScFoodTech, 1; DSc, 3. *Theol.*: BD, 9. *Med.*: MMed, 4.

**DIPLOMAS AWARDED (1959).** Dipl. in soc. work, 2; higher dipl. in librarianship, 8; lower dipl. in librarianship, 4; teacher's dipl. in music, 18; dipl. for church organists, 5; dipl. in home econ., 34; sec. teacher's dipl., 95; teacher's dipl. in comm., 2; teacher's dipl. in home econ. & needlework, 14; lower sec. teacher's dipl., 7; higher prim. teacher's dipl., 23; teacher's dipl. in phys. educn., 9; dipl. for teachers of sp. classes, 17; dipl. comm., 4; teacher's dipl. in speech trg. & dram. art (Afr.), 2.

**CERTIFICATES AWARDED (1959).** Sp. teacher's cert. in music, 1; cert. in choir trg., 23; prim. teacher's cert. (sp.) in speech trg. & dram. art (Afr.), 6; prim. teacher's cert. (sp.) in speech trg. & dram. art (Engl.), 1; elem. cert. in speech trg. & dram. art (Afr.), 3; elem. cert. in speech trg. & dram. art (Engl.), 1.

# UNIVERSITY OF THE WITWATERSRAND JOHANNESBURG\*

Founded 1921

*Postal Address* : Milner Park, Johannesburg, Transvaal, South Africa

*Cables and Telegrams* : University, Johannesburg

*Telephone* : 835-8181

CHANCELLOR—Hon. R. FEETHAM, CMG, MA Hon. LLD

VICE-CHANCELLOR AND PRINCIPAL—W. G. SUTTON, BA BSc(Eng) *Cape T.*, MICE

VICE-PRINCIPAL—I. G. THOMAS, MA *Oxon.*

CHAIRMAN OF COUNCIL—B. L. BERNSTEIN, BA LLB

PRESIDENT OF CONVOCATION—S. S. ISRAELSTAM, PhD, FRIC

REGISTRAR—A. DE V. HERHOLDT, BCom

FINANCE OFFICER—E. L. HUDDLE, BCom

LIBRARIAN—.....

## TEACHING STAFF

[† = Part-Time]

### Accounting

Wumble, B. J. S., FSAA	Prof., Hd. of Dept.
Cairns, T., BCom <i>Cape T.</i>	Sr. Lectr.
Taylor, I. R., BL <i>Glas.</i>	Sr. Lectr.
Kritzinger, L.	Sr. Lectr.
Steele, J. T.	Sr. Lectr.
King, K. W., BCom	Sr. Lectr.
3 Lectrs.†	

### Afrikaans and Nederlands

Louw, N. P. van W., MA BEd <i>Cape T.</i> , Hon. DLitt <i>Utrecht</i>	Prof., Hd. of Dept.
Coetzee, A. J., DLitt&Phil <i>Nijmegen</i> , MA DLitt	Prof.
Nienaber, P. J., MA <i>S.A.</i> , DLitt&Phil <i>Amst.</i>	Assoc. Prof.
Van Heerden, E., MA <i>Stell.</i> , DLitt&Phil <i>Ghent</i>	Lectr.
1 Temp. Jr. Lectr., 1 Asst.†	

### Anatomy

Tobias, P. V., PhD MB BCH, FRAI	Prof.
Allan, J. C., MB ChM, FRCS	Sr. Lectr.
Andrew, Ann, MSc	Lectr.
Goldstein, D. J., BSc MB BCH	Lectr.
De Villiers, Mrs. Hertha L. A., MSc	Temp. Lectr.
Freedman, L., PhD <i>Cape T.</i>	Lectr.
Steyn, W. J., MSc <i>S.A.</i> , DSc <i>O.F.S.</i>	Lectr.
De Beer, Pamela M., MB BCH	Lectr.
7 Temp. Assts., 3 Lectrs.†, 3 Sr. Lab. Techns.	

### Archæology

.....	Prof.
Malan, B. D., BA <i>Cape T.</i> , FSA	†Lectr.

### Architecture and Quantity Surveying

Fassler, J., BArch	Prof.
Howie, W. D., BArch DipTP	Assoc. Prof.
Mallows, E. W. N., MA <i>Camb.</i>	Sr. Lectr.
Shunn, J. M., BArch DipTP	Lectr.
Herbert, G., MArch DipTP	Lectr.
Tomaselli, U. R., BArch	Lectr.
Beinart, J., BArch <i>Cape T.</i> , MArch <i>Mass.</i> , MCP <i>Yale</i>	Lectr.
Venn, O. C.	†Lectr.
Smit, N. P., BSc(Eng) <i>Cape T.</i>	†Lectr.
Milford, R. B., BSc(QS) <i>Pret.</i>	†Lectr.
Walker, C., DipQS <i>Pret.</i>	†Lectr.

### Bantu Languages

Cole, D. T., MA	Prof.
Cole, Mrs. Phyllis D., BA	Lectr.
Ramaila, H. H. S., MA <i>Col.</i>	Lang. Asst.
Mfeka, R. M., BA <i>Rhodes</i>	Lang. Asst.
Sikakana, J. M. R.	Temp. Jr. Lang. Asst.

### Botany

Roux, E. R., PhD <i>Camb.</i> , MSc	Prof.
Davidson, R. L., PhD	Sr. Lectr.
Hancock, Florence D., MSc	Lectr.
Swart, H. J., DSc <i>Utrecht</i>	Lectr.
Wilsenach, R., BSc <i>S.A.</i> , MSc	Lectr.

\* Member of the Association of Universities of the British Commonwealth

Balinsky, J. B., PhD *Lond.* Lectr.  
 Lucas, Mrs. Annabelle, MSc Jr. Lectr.  
 1 Sr. Lab. Techn.

### Chemistry and Chemical Engineering

Backeberg, O. G., MA *Oxon.*, DSc, FRIC (Org. C.) Prof., Hd. of Dept.  
 Sebba, F., MSc PhD *Cape T.*, DIC, FRIC (Phys. C.) Prof.  
 Israelstam, S. S., PhD, FRIC Assoc. Prof.  
 ..... (Chem. Engin.) Prof.  
 Marais, J. L. C., PhD Sr. Lectr.  
 Simpson, J. D., MSc PhD Sr. Lectr.  
 Mansfield, W. R., BSc *Natal* Sr. Lectr.  
 Woodburn, E. T., BSc *Cape T.* Lectr.  
 Van Es, T., BSc Lectr.  
 Walraven, J. J., ChemEng *T.H.Delft* Lectr.  
 Rosseinsky, D. R., MSc *Rhodes*, PhD *Manc.* Lectr.  
 Glasser, L., BSc *Cape T.* Lectr.  
 2 Grad. Assts., 3 Sr. Lab. Techns.

### Classics

Davis, S., MA *Camb. & Rand*, DLitt Prof.  
 Thorpe, A., BA *Oxon.*, MA Lectr.  
 Iagouros, A., BA *Constantinople* Lectr.  
 Saddington, D. B., BA Lectr.  
 Oliver, Angela J., BA *Natal & Oxon.* Lectr.  
 1 Lectr.†, 1 Grad. Asst.

### Commerce and Applied Economics

Richards, C. S., MCom *Durh.*, DSc(Econ) Prof., Hd. of Dept.  
 Van Waasdyk, T., EconDrs *E.H.Rotterdam*, MCom PhD Sr. Lectr.  
 Doxey, G. V., BSc(Econ) *Lond.*, MA *Cape T.* Sr. Lectr.  
 De Swardt, Mrs. Bernice D., MA *S.A.* Lectr.  
 Piercy, Mary V., BA *R'dg.* Res. Asst.

### Dentistry, see below

### Divinity

Fehl, N. E., MA *Brown*, BD *Andover* Prof.  
*Newton*, PhD *Chic.*

### Economics and Economic History

Lachmann, L. M., MSc(Econ) *Lond.*, DrRerPol *Berl.* Prof.  
 Samuels, L. H., BCom Sr. Lectr.  
 Wright, H. R. C., PhD *Camb.* Sr. Lectr.  
 Welsh, Mrs. Anne, BA *Oxon. & Rand* Lectr.

### Education

Gourlay, N., BSc EdB MA *Glas.*, PhD *Birm.* Prof.  
 ..... Sr. Lectr.  
 Tunmer, R., BA BEd *Natal*, BA *Camb.* Temp. Lectr.

### Engineering, see below

### English

Partridge, A. C., MA *Pret.*, PhD *Cape T.* Prof.  
 Girling, H. K., MA *Oxon.* Sr. Lectr.  
 Hall, A. D., MA *Oxon.* Sr. Lectr.  
 Girling, Mrs. Zoe N., MLitt *Camb.*, BA Lectr.  
 Birkinshaw, P. C., MA DipEd *Oxon.* Lectr.  
 Langman, F. H., BA Lectr.  
 Cronin, J. I., BA *Lond.*, MA *N.U.I.* Lectr.  
 Seymour, M. C., DPhil DipEd *Oxon.* Lectr.  
 Fosbery, M. W., BA *Oxon.* Jr. Lectr.

### Fine Arts

Martienssen, Mrs. Heather, PhD *Lond.*, BArch MA Prof.  
 Long, Marjorie K., BA(FA) *S.A.* Lectr.  
 Argent, C. P. A., BA(FineArts) *R'dg.* Lectr.  
 5 Lectrs.†, 1 Grad. Asst.

### Geography

Jackson, S. P., DIC, PhD *Lond.*, MA Prof.  
 Fair, T. J. D., MA *S.A.*, PhD *Natal* Sr. Lectr.  
 Shaffer, N. M., MS *Wis.* Lectr.  
 1 Grad. Asst.

### Geology

Gevers, T. W., MA DSc *Cape T.*, DrPhil *Munich*, FGS Prof.  
 Mendelssohn, E., MA *Harv.*, MSc Assoc. Prof.  
 Cooke, H. B. S., MA *Camb.*, DSc, FRSSAf Reader  
 Van Biljon, W. J., MSc *Pret.*, PhD Sr. Lectr.  
 Plumstead, Mrs. Edna P., DSc †Sr. Lectr.  
 Little, Jeanne de V., MSc *Cape T.* Lectr.  
 McIver, J. R., BSc *Stell.* Lectr.  
 Morris, H. C., BSc(Eng), FGS Lectr.  
 ..... Lectr.  
 1 Sr. Lab. Techn.

### Econ. Geol. Res. Unit

Pretorius, D. A., MSc Sr. Res. Fellow  
 Roering, C., BSc(Eng) Res. Fellow  
 Hargraves, R. B., MSc *Natal* Res. Fellow

### Geophysics

Hales, A. L., MA *Camb.*, MSc PhD *Cape T.*, FRSSAf Prof.  
 ..... Sr. Lectr.

### German

Seidler, H., PhD *Innsbruck* Prof.  
 1 Lectr.† Lectr.

### Hebrew

Rabinowitz, L. I., MA PhD *Lond.* †Prof.  
 Rappaport, S., PhD *Vienna* Temp. Lectr.  
 1 Lectr.†

### History

Marais, J. S., MA *Cape T.*, BA DPhil *Oxon.* Prof.  
 Ballinger, R. B., MLitt *Camb.*, BA *S.A.* Sr. Lectr.  
 Garson, N. G., BA *Camb.*, MA Lectr.

**International Relations**

Prof. Bauman, Mrs. Sheila, MA Lectr.  
2 Lectrs.†, 1 Lab. Techn.

**Law**

Hahlo, H. R., DrJur *Halle*, LLB Prof.  
Scholtens, J. E., DrJur *Amst.* Prof.  
Kahn, E., BCom LLB Prof.  
Lansdown, A. V., BA *Cape T.*, LLB *S.A.* Prof.  
Boberg, P. Q. R., BA LLB Sr. Lectr.  
Hepple, B. A., BA LLB Sr. Lectr.  
3 Lectrs.† Lectr.

**Librarianship**

Mews, Hazel, MA *Lond.*, FLA Sr. Lectr., Hd. of Dept.  
5 Lectrs.†

**Mathematics**

Isaacs, G. L., MSc *Cape T.*, PhD *Lond.* Prof., Hd. of Dept.  
Young, F., MA DipActMath Assoc. Prof.  
Boyd, A. V., MSc Sr. Lectr.  
Harrington, Catherine F., MSc Sr. Lectr.  
Stem, B., MA *Oxon.* Lectr.  
Helmstedt, Mrs. Janet M., BA Lectr.  
Higgs, D. A., BA *Camb.*, BSc Lectr.

**Mathematics, Applied**

Bleksley, A. E. H., MSc *Stell.*, DSc Prof.  
Oliver, H. O., MSc *Stell.* Sr. Lectr.  
Van der Merwe, J. H., DSc *Ley.*, MSc *Stell.* Sr. Lectr.  
Kuperman, I. B. Z., MSc *Cape T.* Lectr.  
Walker, R. M., MA *Oxon.*, BSc Lectr.  
Buric, G. C., BSc Jr. Lectr.

**Medicine**, see below**Metallurgy**, see Engineering, below**Mining Engineering**, see Engineering, below**Music**

Hartmann, F. H., DrJur *Vienna*, DMus *S.A.*, FTCL Prof.  
Schneider, U. V., MMus *S.A.*, PhD *Rhodes* Lectr.  
Van Oostveen, K. Lectr.  
1 Lectr.†, several Instrs.† in Practical Performance

**Philosophy**

..... Prof.  
Van Ryswyck, W. A. E., LLD PhD *Louvain* Sr. Lectr., Actg. Hd.  
Robinson, R. G., MA *Alta.* Lectr.  
Mercorio, G., BA *Cape T.* Temp. Jr. Lectr.

**Phonetics and General Linguistics**

..... Prof.  
Breckwoldt, G. H., DPhil *Hamburg* Sr. Lectr.

**Physics**

Nabarro, F. R. N., MBE, BSc MA *Oxon.*, DSc *Birm.* Prof., Hd. of Dept. (Exper. P.) Prof.  
Brommert, J. W., BSc Sr. Lectr.  
Eagle, B. A., BSc *S.A.*, MA *Camb.* Sr. Lectr.  
Holt, D. B., PhD *Birm.*, MSc Sr. Lectr.  
Silk, E. C. II., PhD Sr. Lectr.  
Hirson, B. M., BSc Lectr.  
James, D. L., BSc(Eng) Lectr.  
Delatizky, B., MSc *Cape T.* Lectr.  
Wiechers, G., MSc *Pret.* Lectr.  
Jackson, P. J., BSc Lectr.  
Matthews, J. W., BSc Jr. Lectr.  
Watson, S. W., BA *Cape T.*, PhD *Camb.* Temp. Lectr.

Kushlick, I., MSc *Cape T.* †Lectr.  
Kerr, D. S. M., BSc Isotope Officer  
4 Res. Assts., 2 Grad. Assts., 1 Instrument Maker, 1 Sr. Lab. Techn.

**Nuclear Phys. Res. Unit**

Sellschop, J. P. F., MSc *Stell.*, PhD *Camb.* Prof.  
Moulton, W. L., MSc *O.F.S.*, PhysDrs *Utrecht* Res. Fellow  
Scott, Mary J., PhD *Johns H.* Res. Fellow  
Keddy, R. J., MSc *Pret.* Res. Fellow  
2 Res. Assts., 1 Sr. Lab. Techn.

**Physiology**

Gillman, J., DSc MB BCh Otto Beit Prof.  
Gilbert, Christine, DSc Reader  
Levy, P. R., DPhil *Oxon.*, MSc Sr. Lectr.  
Kaminer, B., MB BCh DCH Sr. Lectr.  
Furman, K. I., BSc MB BCh, MRCPed Sr. Lectr.  
Savage, Nerina, MSc *O.F.S.*, PhD *Camb.* Lectr.  
De Caire, E. A., MA *Camb.* Lectr.  
Goldstone, B. W., BSc MB BS *Lond.*, FRCSEd Temp. Lectr.  
8 Lectrs.†, 3 Sr. Lab. Techns.

**Political Studies, including Local Government**

Le May, G. H. L., BA *S.A.*, MA *Oxon.* Prof.  
Fryer, A. K., BA PhD *Rhodes* Sr. Lectr.  
Livingstone, D. S., MA *Durh.* Sr. Lectr.

**Psychology**

MacCrone, I. D., MA *Cape T. & Oxon.*, DPhil Prof.  
Hannon, Mrs. Alma E., MA *Cape T.* Lectr.  
Lejeune, Yvonne A., PhD Lectr.  
Radloff, W. P., BSc *Natal* Lectr.  
2 Lectrs.†

**Quantity Surveying**, see Archit. and Quant. Surv.

**Romance Studies**

- Valkhoff, M., DLitt&Phil *Amst.*  
 (French) Prof., Hd. of Dept.  
 ..... (Portuguese) Prof.  
 Shackleton, M., MA *Oxon.* (French) Sr. Lectr.  
 Naldi, G., DottinLett *Florence*  
 (Italian) Temp. Sr. Lectr.  
 ..... (Portuguese) Lectr.  
 Axelson, E. V., MA *S.A.*, DLitt  
 Temp. Res. Asst.  
 1 Lectr.†, 1 Grad. Asst.

**Social Anthropology and African Administration**

- Marwick, M. G., MA BA(SS) *S.A.* Prof.  
 Lewin, J., BA LLB *Cape T.* Sr. Lectr.  
 Blacking, J. A. R., MA *Camb.* Lectr.

**Sociology and Social Work**

- Wagner, O. J. M., MA *Cape T.*, DPhil *Stell.* Prof.  
 Badenhurst, L. T., MA *Stell.*, DLitt Sr. Lectr.  
 Engelbrecht, G. K., MA PhD *S.A.* Sr. Lectr.  
 Muller, Mrs. Ceciel, BA(SocSc) *Stell.* Lectr.  
 Seawright, Mrs. Thelma R.,  
 MSocSc *Cape T.*, PhD Supt. of Field Work  
 1 Grad. Tutor†

**Statistics**

- Kerrich, J. E., DiplActuarialMaths *Edin.*,  
 MSc Prof.  
 Lutz, W. P. W., MSc Lectr.  
 Niven, Barbara S., BSc *Natal* Lectr.

**Surveying, see Engineering, below****Zoology**

- Balinsky, B. I., DBiolSc *Kiev* Prof.  
 Nolte, D. J., MSc *Pret.*, DSc Sr. Lectr.  
 Kalk, Mrs. Margaret J., BSc *Lond.*, PhD  
 Sr. Lectr.  
 MacNae, W., BSc *Glas.*, PhD *Cape T.* Lectr.  
 Hartmann-Goldstein, Ingeborg J., BSc *Pret.*,  
 PhD *Vienna* Lectr.  
 Gabie, Mrs. Vivian, PhD Lectr.  
 James, V. G., BSc Jr. Lectr.  
 1 Grad. Asst., 1 Sr. Lab. Techn.

**DENTISTRY**

(for subjects of first 2 yrs.—Anat., etc., see above ;  
 for other subjects common to D. and Medi-  
 cine—e.g. Pathol., see Medicine, below)

**Children's Dentistry**

- Kotze, A. J., MB ChB *Edin.*, BDS  
 †Lectr. & Clin. Lectr.

**Clinical and Applied Oral Anatomy**

- Stein, I., MB BCh MDS Hon. Lectr.

**Conservative Operative Dentistry**

- Shepherd, G. F., LDS *Liv.* †Prof.

**Dental Anæsthetics**

- Bentel, H., MB BCh †Clin. Lectr.  
 London, M. S., MB BCh DA †Clin. Lectr.  
 Fisher, M., MB ChB *Liv.*, DA  
 †Lectr. & Clin. Lectr.

**Dental Ethics and Jurisprudence and Conduct of Dental Practice**

- Kessel, A., BDS †Lectr.

**Dental Metallurgy and Properties of Dental Materials**

- Valcke, C. F., FDSRCS Lectr.

**Dental Prosthetics**

- Hossack, F. A., Hon. MDS *Durh.* †Prof.

**Dental Radiology**

- Gordon Stewart, F., MB BCh *Dub.*,  
 DMRE *Camb.*, FRCSI Hon. Radiologist  
 Dodds, A. E., BSc BED *S.A.*, BDS Clin. Lectr.

**Dental Science**

- Staz, J., DDS, FRSSAf Prof., Hd. of Dept.  
 Hossack, F. A., Hon. MDS *Durh.* †Prof.  
 Shepherd, G. F., LDS *Liv.* †Prof.

**Dental Surgery**

- Staz, J., DDS, FRSSAf Prof.

**Experimental Odontology**

- Dreyer, C. J., BSc *S.A.*, BDS HDiplDent Prof.

**Maxillo-Facial and Oral Surgery**

- Brown, L. J. †Lectr.  
 Brown, J. M., BDS, FDSRCS †Lectr.

**Oral Medicine**

- Dodds, A. E., BSc BED *S.A.*, BDS Sr. Lectr.

**Orthodontia**

Sr. Lectr. & Clin. Lectr.

**Pathology and Histopathology of the Teeth and Oral Cavity**

- Baikie, G. G., FDSRCS Sr. Lectr.

**Pharmacology**

- Breyer, J. H., Tandarts *Utrecht*  
 Lectr. & Clin. Lectr.

**Pre-Clinical Prosthetic Dentistry**

- Van Reenen, J. F., DiplBact *Lond.*, BDS  
 HDiplDent Lectr. & Demtr.

**Public Dentistry**

- Laing, Jean, LDS DPD *St.And.* Hon. Lectr.

**Special Anatomy and Physiology**

Staz, J., DDS, FRSSAf	Prof.
<b>Clinical Lecturers</b>	
Shear, M., BDS HDiplDent	Lectr.
Viljoen, P. T., BDS	Lectr.
Bird, A. L., BDS, FDSRCS	Temp. Lectr.
Copelyn, M., BDS HDiplDent	Temp. Lectr.
Harvey, F. E., BDS	Temp. Lectr.
Joffe, B. M., BDS	Temp. Lectr.
Lenner, J., BDS	Temp. Lectr.
37 Hon. Clin. Lectrs. in Operative, Conservative or Prosthetic Dent., 7 Hon. Clin. Lectrs. in Orthodontics; 7 Dent. Mechanicians	

**ENGINEERING**

(see also Archit., Chem. and Chem. Engin., above)

**Civil Engineering**

Jennings, J. E. B., SM <i>M.I.T.</i> , BSc(Eng), MICE	Prof., Hd. of Dept.
Ockleston, A. J., BE <i>N.Z.</i> , PhD <i>Brist.</i> , DSc(Eng), MICE	(Structural E.) Prof.
Midgley, D. C., BScEng	
PhD <i>Natal</i>	(Hydraulic E.) Prof.
Mills, R. H., BSc(Eng)	Sr. Lectr.
Maltz, M., BSc(Eng)	Sr. Lectr.
Knight, K., BSc(Eng)	Lectr.
Christiansen, K. P., CivilEng <i>Copenhagen</i>	Lectr.
Schwartz, H. I., DIC, BSc(Eng)	Lectr.
Wolhuter, C. W., BSc(Eng) <i>Stell.</i>	Lectr.
1 Sr. Lab. Techn.	

**Electrical Engineering**

Bozzoli, G. R., DSc(Eng), MIEE	
(Light Current) De Beers Prof., Hd. of Dept.	
Cormack, W., BSc(Eng) <i>Cape T.</i> , DSc(Eng), MIEE	(Heavy Current) Prof.
Kitai, R., MSc(Eng)	Sr. Lectr.
Wood, N. R., MA <i>Camb.</i>	Sr. Lectr.
Webb, V. I., BSc(Eng)	Lectr.
Posel, K., PhD	Lectr.
Milner, M., BSc(Eng)	Lectr.
Viskamp, N. E., BSc(Eng)	Jr. Lectr.
1 Lectr., 2 Sr. Lab. Techns.	

**Mechanical Engineering**

Smoleniec, S., MSc <i>Warsaw</i> , DIC, PhD <i>Lond.</i>	John Orr Prof.
Rallis, C. J., MSc(Eng)	Sr. Lectr.
Simon, H. A., BSc(Eng)	Sr. Lectr.
Duggan, T. O'D., BSc(Eng)	Sr. Lectr.
O'Donovan, K. H. J., MSc(Eng)	Lectr.
Favero, R. A. C. R., DottIng <i>Genoa</i> , MSc(Eng)	Lectr.
Boyd, C. O., BS(MetEng) <i>CarnegieTech. Inst.</i> , BSc	Lectr.
Dimitriou, C., BSc(Eng) <i>Glas.</i>	Lectr.
Van Gorp, A. B. M., Ir <i>T.H.Delft</i>	Temp. Lectr.
Adams, A. R., BSc(Eng)	Lectr.
Gibson, R. E.	Instr.
1 Sr. Lab. Techn.	

**Metallurgy**

Mavrocordatos, C. E., BMet <i>Sheff.</i> , FIM	Prof.
Siff, A., MA <i>Cape T.</i>	Sr. Lectr.
Le Roux, D. B., BSc(Eng)	Lectr.
Timmermans, O. E. B., PhD	Lectr.
Robinson, F. P. A., PhD	Lectr.
1 Sr. Lab. Techn.	

**Mining Engineering**

Black, R. A. L., DSC, BSc(Eng) <i>Lond.</i>	
Chamber of Mines Prof.	
Edwards, E. P., BSc(Eng) <i>Lond.</i>	
(Mining E.) Sr. Asst.	
Edwards, T., BSc <i>Lond.</i>	Sr. Lectr.
Simpson, T. P.	Sr. Lectr.

**Surveying**

Lauf, G. B., DSc(Eng)	Prof.
Freislich, J. G., BSc(Eng)	Sr. Lectr.
Watt, I. B., BSc(Eng)	Sr. Lectr.
Meyer, O. H. H., DiplIng <i>Berl.</i>	Lectr.

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc., see above)

**Anæsthetics**

Nicholson, J. C., MB ChB <i>Manc.</i> , DA	Chief Anæsthetist
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**Diseases of Children**

Heymann, S. C., BSc MB BCH	†Chief Pædiatrician
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**Diseases of Children, Surgical**

Trubshaw, W. H. D., FRCS	†Sr. Surgeon
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**Diseases of the Skin**

Gluckman, I.	†Chief Dermatologist
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**Dispensary Practice**

Granat, L., MB BCH <i>Cape T.</i>	Tutor
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**Ear, Nose and Throat, Diseases of**

Fox, G. M.	†Sr. Aural Surgeon
Kerr, W. A., DLO	†Sr. Aural Surgeon

**Eye, Diseases of the**

Franks, M., MB BCH DOMS, FRCSEd	†Chief Ophthalmologist
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**Forensic Medicine**

Friedman, J., MD BCH DPH	Hon. Prof.
Weintraub, C. M., MB BCH	†Lectr.

**Medicine**

Elliott, G. A., OBE, MD <i>Cape T.</i> , FRCP, FRSSAf	Prof., Chief Physician
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**Gear, J. H., BSc MB BCh DTM&H**  
 Assoc. Prof., Sr. Physician, Sr. Asst. to  
 Prof.  
 2 Sr. Lab. Techns.

### Medicine, Physical

**Lomey, A. L., MD BCh DPhysMed**  
 †Chief Specialist

### Neurology

**Geerling, R., Arts Holland, MD Amst.**  
 Chief Neurologist

### Nursing Education

**Peacock, P. N. B., MB ChB DPH Cape T.,  
 DTM&H**  
 †Hd. of Sub-Dept.

Teaching in this sub-dept. is also undertaken  
 by staffs of depts. of Anat., Chem., Educn.,  
 Obstet. and Gynæcol., Pathol., Pharmacol.,  
 Physiol., Physiotherapy, Psychol., Surg. and  
 Zool., and by teaching staffs of Johannesburg  
 General Hosp. and Nursing Coll.

### Obstetrics and Gynæcology

**Heyns, O. S., MA BSc Cape T., DSc, FRCOG**  
 Prof., Chief Obstetrician & Gynæcologist  
**Daubenton, F., BSc MB BCh**  
 Sr. Asst. to Prof., Sr. Obstetrician &  
 Gynæcologist

### Occupational Therapy

**Lomey, A. L., MD BCh DPhysMed**  
 †Hd. of Sub-Dept.

**Grieves, S. G.** Lectr.  
**Cynkin, Simme, DipOT** Lectr.  
**Jack, Beatrice I.** Craft Instr.  
 2 Instrs.†

### Orthopædics

**Edelstein, J. M., MB ChB Edin.,**  
**MChOrth Liv., FRCSEd**  
 †Nuffield Lectr., Chief Orthopædic Surg.

### Pathology and Microbiology

**Becker, B. J. P., MD BCh DPH DTM&H**  
 (Morbid Anat. & Histopathol.) Prof.,  
 Hd. of Dept.

**Stein, H. B., MSc MD BCh DPH DCP**  
 (Chem. Pathol.) Prof.

**Murray, J. F., MD ChB DPH St.And.**  
 (Clin. Pathol.) Hon. Prof.

**Heinz, H. J. R. E., PhD Munich** Sr. Lectr.  
**Siew, Shirley, MB BCh** Sr. Lectr.

**Getz, G. S., BSc MB BCh** Lectr.

**Mendelsohn, D., BSc MB BCh** Lectr.

**Bradlow, B. A., BSc MB BCh** Lectr.

**Manson, Mrs. Margaret D. E., MB BCh** Lectr.

**Abrahams, C., MB BCh** Lectr.

2 Grad. Assts., 3 Lab. Techns.

### Pharmacology and Therapeutics

**Hovy, J. W. H., BSc Pret., PhD** Prof.  
 1 Temp. Jr. Lectr., 2 Sr. Lab. Techns. Sr. Lectr.

### Physiotherapy

**Lomey, A. L., MD BCh DPhysMed**  
 †Hd. of Sub-Dept.

**Blair, Jean** Sr. Lectr.

**Taylor, Mrs. Gwendoline D.** Lectr.

**Hinz, Margarete F. H.** Lectr.

**Kastell, Mrs. Helen B.** †Lectr.

1 Temp. Jr. Lectr.

Teaching in this dept. is also contributed to by  
 staffs of depts. of Phys., Chem., Zool., Anat.  
 Physiol., Surg. and Gynæcol. & Obstet.

### Plastic Surgery

**Cuthbert, J. B., MA PhD Cape T.,  
 MB BS Lond., FRCSEd**  
 †Sr. Plastic Surgeon

### Preventive Medicine

..... Hon. Prof.  
**Peacock, P. N. B., MB ChB DPH Cape T.,  
 DTM&H**  
 †Sr. Lectr.

### Psychological Medicine

**Hurst, L. A., BA BSc MB BCh PhD Cape T.,  
 MD Pret.** Prof.

**Geerling, R., Arts Holland, MD Amst.**

†Clin. Lectr.

**Katz, S. M., MD BCh Liv.** †Clin. Lectr.

6 Lectrs.†, 9 Clin. Demrs.

### Radiology

**Kaye, J., DMR Cape T.** Chief Radiologist

### Surgery

**Du Plessis, D. J., MB ChB Cape T., ChM,  
 FRCS** Prof., Chief Surgeon

**Leonsins, A. J., MB BCh, FRCSEd,  
 FRFPGlas** Sr. Asst. to Prof., Sr. Surgeon

2 Sr. Lab. Techns.

### Thoracic Surgery

**Fatti, L., MB BS Lond., FRCS**  
 †Sr. Thoracic Surgeon

### Tropical Medicine

**Gear, J. H. S., DipBact Lond., BSc MB  
 BCh DPH DTM&H**  
 †Sr. Lectr.

### Urology

**Brayshaw, H. C., MB ChB Edin., FRCS,  
 FRCSEd**  
 †Chief Urologist

### Vascular Diseases

2 Second Medical Assts.†

### Venereal Diseases

**Sieff, B., MB BCh** †Sr. Clin. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar : H. van Huyssteen, BA *Cape T.*, LLB S.A. Accountant : G. E. S. Burns. Asst. Accountant : F. H. Barnett. Public Relations Officer : K. Andrew.

LIBRARY. Dep. Librarian : I. Isaacson, BA,

FSALA ; Asst. Librarians : Mavis E. G. Anderson, BA *Brist.*, DipLib *Lond.*, FLA ; Moira E. Farmer, BA LibDipl *Cape T.*, FSALA ; Betty J. Lunn, BA, FSALA ; Mary B. Lucas, BA, FSALA.

## CONSTITUENT INSTITUTIONS

BERNARD PRICE INSTITUTE OF GEOPHYSICAL RESEARCH, Milner Park, Johannesburg (tel. : 835-1578). Founded 1936. Dir.—Prof. A. L. Hales, MA *Camb.*, MSc PhD *Cape T.* The Inst. is situated on the univ. campus and is governed by a bd. apptd. by the univ. council. Apart from its own activities, the Inst. provides teaching for engin. students as well as trg. and res. facilities for advanced students.

BERNARD PRICE INSTITUTE FOR PALÆONTOLOGICAL RESEARCH, Milner Park, Johannesburg (tel. : 835-8181). Founded 1949. Dir.—S. H.

Haughton, BA *Camb.*, DSc Hon. LLD *Cape T.*, FGS, FRSSAf. The Inst. is accomm. in the univ. and is governed by a bd. apptd. by the univ. council. Library, museum and res. facilities are available for the use of students and visiting res. workers.

ERNEST OPPENHEIMER INSTITUTE OF PORTUGUESE STUDIES is housed in the univ. library and administered by the univ. Visiting profs. are brought to the univ. by the Inst. which also provides a lectr. in Portuguese lang., library facilities and study grants.

## ASSOCIATED INSTITUTIONS

GOVERNMENT ARCHÆOLOGICAL SURVEY, Milner Park, Johannesburg (tel. : 835-1378). Dir.—B. D. Malan, BA.

GOVERNMENT METALLURGICAL LABORATORY, Milner Park, Johannesburg (tel. : 835-1181). Actg. Dir.—J. Levin, BSc(Eng).

NATIONAL INSTITUTE FOR TELECOMMUNICATIONS RESEARCH, Milner Park, Johannesburg (tel. : 835-5255). Dir.—F. J. Hewitt, MSc PhD.

NATIONAL INSTITUTE FOR PERSONNEL RESEARCH,

P.O. Box 10319, Johannesburg (tel. : 835-2466). Dir.—S. Biesheuvel, MBE, MA PhD.

RESEARCH UNITS. The univ., jointly with the C.S.I.R., participates in the following res. units : Dental, Nutrition, Cardio-Pulmonary. Res. units in Nuclear Phys. and in Econ. Geol. are subvented from outside sources.

SOUTH AFRICAN INSTITUTE FOR MEDICAL RESEARCH, Hospital St., Hillbrow, Johannesburg (tel. : 44-1444). Establd. 1912. Dir.—Prof. E. H. Cluver, ED, MA MD BCH *Oxon.*, DPH *Lond.*

## GENERAL INFORMATION

The Univ. of the Witwatersrand, Johannesburg, has developed out of the South African Sch. of Mines (1896), the Transvaal Technical Inst. and the Transvaal Univ. Coll. (1906), the South African Sch. of Mines and Technol. (1910), and the Univ. Coll., Johannesburg (1920). In 1921 Univ. Coll., Johannesburg, was reincorporated as the Univ. of the Witwatersrand, Johannesburg, with effect from March 1, 1922. This devel. was made possible partly by support from the public, amounting in all, up to the end of 1922, to over £220,000. The municipality provided a fine site (80 acres) at Milner Park, a mile from the centre of the town. Expenditure on bldgs. totals £2,661,925. The med. sch. is a separate bldg. in Hospital Hill on a site donated by the govt.

CONSTITUTION. The main authorities are the council, in which the govt. and executive authority of the univ. is vested ; the senate, which superintends and controls the discipline and

instrucn. of the several depts., exams., award of degrees, etc. ; and the bds. of facs., which are ctees. of the senate.

INCOME (1959). £1,326,818 (fees, 30 per cent. ; govt. grant, 60 per cent. ; other grants, interest on investments, etc., 10 per cent.).

FACULTIES AND DEANS. *Archit.*, Prof. J. Fassler ; *arts*, Prof. O. J. M. Wagner (sociol.) ; *comm.*, Prof. C. S. Richards (comm. & appl. econ.) ; *dent.*, Prof. J. Staz ; *engin.*, Prof. J. E. B. Jennings (civil engin.) ; *law*, Prof. H. R. Hahlo ; *med.*, Prof. E. H. Cluver (med. educn.) ; *sci.*, Prof. S. P. Jackson (geog.).

LIBRARIES. Main library, 298,000 vols., 4180 current periodicals ; Witwatersrand med. library, serving the med. sch. and the profession ; several deptl. libraries and museums.

RESEARCH STATIONS. Univ. field res. stn. : situated on the farm Frankenwald, which is

owned by the univ.; mainly bot. res. Marine biol. res. stn.: situated on Inhaca Island, Mozambique, which is owned by the govt. of Portuguese E. Africa. **UGANDA GORILLA RES. UNIT** at Kisoro.

**TEACHING HOSPITALS.** *Med.*: main teaching hosp.—the Johannesburg H., which includes the General H., Non-European H., Queen Victoria Maternity H., Transvaal Memorial H. for Children; associated teaching hosps.—Baragwanath H., Coronation H., Tara H., Bridgman Memorial H., St. John Ophthalmic H. *Dent.*: Univ. Oral & Dental H.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** BA, BSc, BCom, BMus, 3 yrs. pass (4th yr. for hon.); BA hon. may be taken in langs., philos. scis., classics or soc. scis.; BSc hon. in chem., phys. or theoret. phys. BA Logopedics, BAFineArts, BASocWork, BAPub Admin, BScPhysiotherapy, BSc(Eng), 4 yrs.; BSc hon. may be taken by 1 yr.'s further study after BSc in anat., appl. maths., bot., geog., geol., maths., psychol., zool.; BSc(QS), 5 yrs.; BDS, 5½ yrs.; MB BCh, BArch, 6 yrs.

**HIGHER DEGREES** (open to grads. of other univs.). BED (1 yr. full-time, 2 yrs. pt.-time course), exam. and dissertation; LLB, 3 yrs.; MMed(Path), 4 yrs. Thesis: MA, MSc, 1 yr. after hon.; MArch, MEd, MSc(Eng), LL.M., MD; MCom (exam. and thesis). Thesis, with yrs. from 1st degree: ChM, DDS (thesis and, if required, exam.), 3 yrs.; PhD, 4 yrs. (not in med., law, or dent.); DArch, DSc(Econ), LLD (thesis and, if required, exam.), 7 yrs. Original publ. work: DLitt, DSc, DSc(Eng), 4 yrs. after 1st degree.

**HONORARY DEGREES.** DLitt, DSc, DSc(Eng), MD, LLD may be conferred as honorary or as 'earned' degrees.

**DIPLOMAS.** Librarianship, educn. of the deaf, 2 yrs.; logopedics, 3 yrs.; native affairs, 2 yrs. pt.-time; med., surg., obstet. & gynæcol., anaesth., child health, pub. health, indust. health, 1 yr.; psychol. med., 2 yrs.; radiol. diag., radiotherap., 3 yrs.; trop. med. & hyg., 6 mos.; nursing, 1½ yrs.; occupnl. therapy, 3½ yrs.; physiotherapy educn., 1½ yrs.; econ. of local govt. & admin., 2 yrs. pt.-time; cert. in theory of accty., 4 yrs. pt.-time; law, law (public service), 3 yrs.; higher dipl. in dent., 1 yr.; pub. dent., 1 yr.; orthodontics, 2 yrs. (full-time) or 3 yrs. (pt.-time); maxillo-facial surg., 2 yrs.; quant. surv., 5 yrs.; town planning, 3 yrs. pt.-time.

**RESEARCH.** All depts. have facilities for post-grad. res., over-all supervision being exercised by the univ. res. cttee. In addn., the univ. administers res. grants made to members of staff by govt.-controlled bodies, chiefly the S.A. Council for Scientific and Indust. Res., from funds voted by parliament for the purpose. See also 'Constituent Institutions' and 'Assoc. Institutions' (p. 783) and 'Research Stations' above.

**STUDY LEAVE.** 4 mos.' leave of absence during an academic term may be granted by the council to an officer who has completed 6 yrs.' continuous service. Salary arrangements are: 2 mos. full pay, 2 mos. half pay, after 6 yrs.' service; 3 mos. full pay, 1 mo. half pay, if taken after 7 yrs.' service; 4 mos. full pay, if taken after 8 yrs.' service. Sp. leave without salary may be granted by the council for certain purposes, e.g. overseas study.

**FEES.** BA, £265; BMus, £300; BASocWork, BALogopedics, BAFineArts, BAPubAdmin, £380; BA hon., BSc hon., BCom hon., £75 for 1st yr. and £10 for every yr. or portion of yr. thereafter; BSc, £330; MB BCh, £660; BSc Physiotherapy, £380; DipOccTherapy, £248; BSc(Eng), £440; BCom, £265; cert. in theory of accty., £170; LLB, £210; BArch, £497; BSc(QS), £497; DipQS, £420; BDS, £605.

**ACADEMIC YEAR.** Feb. to Nov., 2 terms totalling about 28 wks.

**LANGUAGE OF INSTRUCTION.** English.

**'OPEN' AWARDS FOR FIRST DEGREE COURSES.** Numerous state and municipal bursaries.

**'OPEN' SCHOLARSHIPS FOR GRADUATES.** Ainsworth (mod. hist.), min. £150 p.a. for 2 yrs. plus £50 for books; H. B. Webb, £150 p.a. for 2 yrs.; African Explosives and Chem. Industries Ltd., £300 p.a. for 2 yrs.; G. A. Denny (soc. relns.), £250 p.a. for 2 yrs.

**GRADUATES' ASSOCIATIONS.** Convocation (all grads.), mining engin. graduates' assocn.; med. graduates' assocn.

**STUDENT RESIDENCES.** College House and Dalrymple House, Milner Park (tel.: 34-4419); accomm. 150 men, fee £150 p.a. Univ. Residence, Cottesloe, Auckland Park (tel.: 31-2836), 350 men, £150 p.a. Isabel Dalrymple House, Milner Park (tel.: 835-7830), 150 women, £150 p.a. Douglas Smit House, Milner Park (tel.: 835-7698), 30 African med. students, £115 p.a.

**STUDENT HEALTH SERVICE.** A students' health insurance soc. exists for all students taking a 1st degree (except MB BCh).

**STUDENTS' REPRESENTATIVE COUNCIL.** The functions, powers and privileges of the S.R.C. are prescribed in rules made by the council.

**PUBLICATIONS.** *Calendar* (annual), 5s.; *Gazette* (twice a year), free; *African Studies* (quarterly), £1: 10s. p.a.; *S.A. Journal of Medical Scis.* (quarterly), 21s. p.a.; *Palæontologia Africana* (annals of the Palæontological Res. Inst.); *English Studies in Africa* (twice a year), 10s. p.a.

**WITWATERSRAND UNIVERSITY PRESS.** Under control of a publcs. cttee., the press publishes work of staff and sr. students and three journals, *African Studies*, *S.A. Journal of Medical Scis.* and *English Studies in Africa* (see above). The prof. of Bantu langs. supervises the first journal and the publishing of books in and on African langs. All printing is done by commercial firms.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Transvaal & O.F.S. Chamber of Mines, £150,000 for a new residence for men; African Explosives & Chem. Industries Ltd., £50,000 for a chair of chem. engin.

**MAJOR BUILDING DEVELOPMENTS.** New bldg. for central maintenance workshops; extensive alterations to phys. block.

**NEW DEPARTMENTS.** Dept. of phonetics & logopedics expanded into dept. of phonetics & general linguistics; dept. of chem. engin. establ.; dept. of local govt. & pub. admin. reorganized as dept. of pol. studies, including local govt.; new dept. of div.

**RETIREMENTS.** Dr. F. A. H. De Beer (mech. engin.); Dr. T. B. Berry (dent.).

**HONORARY DEGREE.** DSc—S. M. Naudé, pres., C.S.I.R.

## Statistics

## STUDENT NUMBERS, 1960

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time*</i>
Men . .	4118	94
Women . .	1159	78
	—	—
Total .	5277	172

Distribution by Faculties. *Archit.*, 277; *arts*, 1306; *comm.*, 987; *dent.*, 186; *engin.*, 954; *law*, 188; *med.*, 892; *sci.*, 659. Total: 5449.

*Included in the figures above are:—*

Postgraduate students, 740.

New admissions, 1990.

Students from other countries, 190. (Country from which largest number came: Fed. of Rhodesia & Nyasaland, 121).

**DEGREES AWARDED (1959).** *Archit.*: BArch, 22; BSc(QS), 2; MArch, 1. *Arts*: BA, 150; BAFineArts, 2; BALogopedics, 8; BASocWork, 7; BMus, 4; BA (hons.), 13; BMus (hons.), 1; MA, 5; MEd, 4; PhD, 2. *Comm.*: BCom, 39. *Dent.*: BDS, 23. *Engin.*: BSc(Eng), 115; MSc(Eng), 6; PhD, 4; DSc(Eng), 2. *Law*: LLB, 20. *Med.*: MB BCh, 186; BScPhysiotherapy, 9; MD, 3. *Sci.*: BSc, 50; BSc (hons.), 26; MSc, 10; PhD, 7; DSc, 1.

**DIPLOMAS AND CERTIFICATES AWARDED (1959).** *Postgrad.*: anæsth., 4; med., 2; psychol. med., 2; obstet. & gynæcol., 2; surg., 1; indust. health, 1; dent. (higher), 1; town planning, 4. *Other*: law, 14; cert. in theory of acctg., 44.

\* Part-time students are 'occasional students', extra-mural students being included in numbers for full-time students, *i.e.* those following a full-degree curriculum.

# UNIVERSITY COLLEGE OF FORT HARE\*

Established in 1916 as the South African Native College

Postal Address : P.O. Fort Hare, South Africa

Cables and Telegrams : Hoof. Fort Hare

Telephone : Alice 20

CHAIRMAN OF COUNCIL—S. PAUW, BSc DPhil *Pret.*, MA *S.A.*

CHAIRMAN OF CONVOCATION (SENATE)—THE RECTOR

RECTOR—J. J. ROSS, BA BSc BEd *S.A.*, LLB BAdmin *O.F.S.*, MA *Yale*, HSED *Stell.*

REGISTRAR—H. J. du PREEZ, BA *Stell.*

ASSISTANT REGISTRAR—M. P. NEL

LIBRARIAN—M. SPRUYT, BA LL.Drs *Ley.*, LDiplBibl *Pret.*

## TEACHING STAFF

### African Studies, Anthropology, Administration

Raum, O. F., BA PhD *Lond.* Prof.  
Ndamse, C. M. C., MA *Hartford* Lectr.  
Gitywa, V. Z., BA *Rhodes*  
Curator, Malan Museum

### Afrikaans and Nederlands

Coetzee, Rev. A., MA *S.A.*, Dip'Theol Prof.  
*Stell.*, DLitt Lectr.  
Vorster, J., BA *Rand*

### Agriculture

van Wyk, J. H., BSc(Agric) *Pret.* Sr. Lectr.  
Farm Manager

### Bantu Languages

..... Prof.  
Mzamane, G. I. M., MA *S.A.* Lectr.  
Guma, S. M., BA *S.A.*, MA *Cape T.* Lectr.  
Burns-Ncamashe, S. M., BA BEd *S.A.* Lectr.

### Botany

Giffen, M. H., MA *Cape T.*, MSc *Camb.* Prof.  
..... Sr. Lectr.  
Giffen, Miss E. M., BSc *Cape T.* Lectr.

### Chemistry

Galloway, A. S., PhD *St.And.*, FRIC Prof.  
Kemp, A. D., MSc *Rand*, DPhil *Oxon.* Sr. Lectr.  
..... Sr. Lectr.  
Govinden, H. S., BSc *Rhodes* Lectr.  
Ntongana, T. M., BSc *Rhodes* Jr. Lectr.  
1 Technician

### Classics

Jacobs, K., LitHumDrs *V.U.Amst.*, Prof.  
DLitt *Ley.*

### Commerce

Slabbert, J. A., BCom *O.F.S.* & *Stell.*

### Divinity

Oosthuizen, Rev. G. C., BA ThM *Stell.*,  
MA *Cape T.*, DPhil *S.A.*, STM  
U.T.S.(N.Y.), ThD *Amst.* Sr. Lectr.  
Hect, Rev. F., CandPhil CandTheol *Halle*,  
CandMin *Berl.* Lectr.  
Gamede, A. B., MA *S.A.* & *Wheaton* Lectr.

### Economics

..... Prof.  
..... Sr. Lectr.  
Smit, A. D., BCom *O.F.S.* Lectr.

### Education

Botma, J. P., MA DEd *Stell.* Prof.  
Seboni, M. O. M., BA DEd *S.A.* Sr. Lectr.  
Dyasi, H. M., BSc BEd Lectr.

### English

Venter, J. A., BEd DLitt *Potchef.* Prof.  
Darroll, Gertrude M. H., MA *S.A.* Sr. Lectr.  
Millard, G., BA *Natal* Lectr.

### Geography

Nel, Major D. E., MA *Stell.* Sr. Lectr.  
Childs, N. T., BA *Rhodes* Lectr.

\* Associate Member of the Association of Universities of the British Commonwealth

**History**

Coetzee, G. C., DPhil *Pret.*  
Pretorius, J. G., BA *O.F.S.*

Prof.  
Lectr.

**Physics**

Davidson, J. T., MSc *S.A.*  
Pieterse, P. H., MSc *Stell.*

Prof.  
Sr. Lectr.  
Lectr.

**Law**

Pont, D., LLD *Utrecht*, LLB *S.A.*  
Thom, J. B., BA LLB *Stell.*

Prof.  
Lectr.

**Politics**, see Philos. and Pol.

**Mathematics and Applied Mathematics**

van Rensburg, G. J. J., BSc *Potchef.*,  
MSc *Pret.*  
Linde, S., MSc  
Masondo, A. M. L., BSc *Rhodes* &  
*Rand*

Sr. Lectr.  
Sr. Lectr.  
  
Lectr.

**Psychology**

Muller, A. D., MA *Pret.*, DLitt&Phil  
*V.U.Amst.*  
van der Berg, J. C., MA *Potchef.*

Prof.  
Sr. Lectr.  
Lectr.

**Philosophy and Politics**

Rauche, G. A., PhD *S.A.*  
Crause, C. A., MA DrJur *Amst.*

Sr. Lectr.  
Sr. Lectr.

**Zoology**

Meiring, A. J. D., MSc PhD *S.A.*  
Saayman, J. E., MSc *Stell.*  
Visser, J. G. J., MSc *Stell.*

Prof.  
Lectr.  
Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Bursar: F. P. G. Hunter, LLB *Lond.* Wardens  
& Tutors of Hostels: Beda Hall, M. O. M.  
Seboni, BA DEd *S.A.*; Wesley House, S. M.  
Guma, BA *S.A.*, MA *Cape T.*; Iona House, E.  
Makhanya, BA *Rand*; Women's Hostel: 'Eluk-  
hanyisweni', C. M. C. Ndamse, MA *Hartford*.  
Boarding Master, Dining Hall: A. K. McGilli-  
vray. Hon. Physician & Hon. Health Officer:

....; Asst. Health Officer: L. S. Mtoba,  
BSc(Hyg) *Rhodes*. Estate Manager: J. S. M.  
Clark.

LIBRARY. Asst. Librarian: E. Makhanya, BA  
*Rand*. Library Assts.: A. W. Z. Kuzwayo, BA  
*Rhodes*; K. L. Mali, BA *Rhodes*; W. W. T.  
Mbate, BA *S.A.*

**GENERAL INFORMATION**

Founded in 1916 as the South African Native  
Coll. to provide, under Christian auspices, facili-  
ties for the higher educn. of Africans, the coll.  
offered courses for the external degrees of the  
Univ. of South Africa until 1951 when it became  
affiliated to Rhodes Univ.; the present title was  
adopted in 1952. As from Jan. 1, 1960, the college  
was transferred from the dept. of educn., arts &  
sci. to the dept. of Bantu educn. and courses for  
the external degrees of the Univ. of South Africa  
were again offered.

CONSTITUTION. The main coll. authorities,  
under the dept. of Bantu educn., are the govern-  
ing council and senate.

INCOME (1958). Total: £116,119 (govt. grants,  
£90,221; tuition fees, £17,095; other, £8803).

FACULTIES. Agric., arts, comm., div., educn.,  
law, sci.

LIBRARY. Howard Pim libr., 40,000 vols.

LABORATORIES. Bot., chem., geog., phys.,  
psychol., zool.

MUSEUM. F. S. Malan museum for ethno-  
logical study and res., especially in relation to  
African cultures and customs.

ADMISSION. For admission to first degree  
courses, exemption from the matric. exam. of the

Jt. Matric. Bd. of the Univs. of S. Africa (see  
Appendix II) is required.

FIRST DEGREES (of Univ. of S.A.). Courses are  
now provided for degrees of the Univ. of S.A.  
(As a transition measure, students who had pre-  
vious to 1960 begun studies for degrees of Rhodes  
Univ. may complete their degrees under the  
regns. of that univ.).

HIGHER DEGREES (of Univ. of S.A.). BEd, MA,  
MSc, PhD, DEd.

DIPLOMAS. *Awarded by Univ. of S.A.*: univ.  
educn. dipl. (1 yr. postgrad.). *Awarded by the  
coll.*: univ. educn. dipl. (1 yr. non-grad.), dipl.  
in theol. (2 yrs. postgrad.), dipl. in theol. (3 yrs. non-  
grad.), advanced dipl. in agric. (3 yrs. non-grad.).

CERTIFICATES. Coll. cert. in theol. (non-grad.,  
2 yrs.).

FEES. Tuition and board: £90 p.a.

ACADEMIC YEAR. Two terms: March-June,  
Aug.-Nov.

LANGUAGE OF INSTRUCTION. English.

STUDENT RESIDENCES. For wardens, see  
'Admin. and Other Staff', *above*. For men:  
Beda Hall (Anglican), accomm. for 100 students;  
Wesley House (Methodist), 135 students; Iona

House (Presbyterian), 80 students. For women : 'Elukhanyisweni', 50 students. Temp. hostels : 100 students.

STUDENT HEALTH is looked after by Lovedale Hosp.

STUDENTS' REPRESENTATIVE COUNCIL is consulted by univ. authorities on certain student matters.

PUBLICATIONS. Annual *Calendar* ; occasional Fort Hare Papers (literary and scientific).

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, June 1960

	<i>Full-Time</i>	<i>Part-time</i>
Men . . .	297	11
Women . . .	50	2
	—	—
Total . . .	347	13

Distribution by Faculties. *Agric.*, 16 ; *arts*, 124 ; *div.*, 4 ; *educn.*, 55 ; *sci.*, 161. Total : 360.

*Included in the figures above are :—*

Postgraduate students, 39.

New students, 54.

Students from other countries, 5 (from Fed. of Rhodesia & Nyasaland).

DEGREES AWARDED (by Rhodes Univ.) (1959) : BA, 50 ; BSc, 33 ; BEd, 3 ; BA (hons.), 4 ; BSc (hons.), 1.

DIPLOMAS AWARDED (1959). By Rhodes Univ. : UED grad., 32 ; UED non-grad., 15 ; theol., 1. By the coll. : *agric.*, 3.

CERTIFICATES AWARDED (1959). By the coll. : theol., 10.

# UGANDA

Makerere College  
The University College of East Africa (p. 790)



# MAKERERE COLLEGE THE UNIVERSITY COLLEGE OF EAST AFRICA\*

Founded 1949; previously established as Makerere College, 1922

Postal Address: P.O. Box 262, Kampala, Uganda, East Africa

Cables and Telegrams: Makcol, Kampala

Telephone: Kampala 2471

VISITOR—H.E. Sir FREDERICK CRAWFORD, KCMG, OBE

CHAIRMAN OF COUNCIL—Sir DONALD MACGILLIVRAY, GCMG, MBE

PRINCIPAL—B. DE BUNSEN, CMG, MA *Oxon.*

VICE-PRINCIPAL—Professor A. W. WILLIAMS, MA MD *Camb.*, FRCP

SECRETARY—A. TATTERSALL, MA *Camb.*

REGISTRAR—P. F. VOWLES, MA *Oxon.*

BURSAR—J. E. BURROUGH

LIBRARIAN—H. HOLDSWORTH, MA *Leeds*, FLA

## TEACHING STAFF

[†=Part-Time]

### Agriculture

Wilson, F. B., MBE, MA DipAgric *Camb.*,  
AICTA Prof.  
Keay, Margaret A., MA *Cape T.*,  
PhD *Camb.* (Agric. Bot.) Reader  
Pawson, E., BSc PhD *Lond.*, FRIC  
(Agric. Chem.) Sr. Lectr.  
Mahadevan, P., BSc *Ceylon*, PhD *Glas.*  
(Animal Husb.) Sr. Lectr.  
Boshoff, W. H., BSc(Eng) *Rand*,  
MSc(AgricEng) *Durh.* (Agric. Engin.) Lectr.  
Joy, J. L., BSc(Econ) *Lond.* (Agric. Econ.) Lectr.  
Arman, Pamela, BSc *R'dg.*, MSc *Lond.*  
(Agric. Chem.) Lectr.  
Huxley, A., BSc *R'dg.* (Hortic.) Lectr.  
Goodchild, A. J. P., BSc *Lond.*  
(Agric. Zool.) Lectr.  
Bowden, B. N., BA BSc DPhil *Oxon.*  
(Agric. Bot.) Lectr.  
Macdonald, A. S., BSc(Agric) *Durh.*  
(Crop Husb.) Lectr.

### Art

Todd, C. Prof., Hd. of Sch.  
Maloba, G. P. Lectr.  
Ntiro, S. J., DipFineArt *Lond.* Lectr.  
Kingdon, J. S. Lectr.  
Whitaker, Mrs. H. Margaret †Lectr.

### Botany

Lind, Edna M., BSc PhD *Liv.*  
Reader, Hd. of Dept.

Calder, E. A., BSc *Leeds*, PhD *Lond.* Sr. Lectr.  
Milburn, T. R., BSc *Durh.* Lectr.  
Villiers, T. A., BSc PhD *Lond.* Lectr.  
Tallantire, Anne C., BSc *Durh.* Lectr.  
Morrison, M. E. S., MSc *Belf.*  
Nuffield Res. Worker

### Chemistry

Crawford, M. M., DSc *Glas.*, PhD *Munich*,  
FRIC Prof., Hd. of Dept.  
Naylor, R. F., DIC, BSc PhD *Lond.*,  
FRIC Sr. Lectr.  
Peal, W. J., BSc PhD *Lond.* Sr. Lectr.  
Gill, E. K., BSc *McG.*, MSc PhD *Ott.* Lectr.  
Williams, J. F. A., BSc PhD *Lond.* Lectr.  
Woodhead, M., BSc PhD *Leeds*, FRIC Lectr.  
Dandy, A. J., BSc PhD *Birm.* Lectr.

### Economics and Political Science

Walker, D., MA *Camb.*  
(Econ.) Prof., Hd. of Dept.  
Ehrlich, C., BSc(Econ) PhD *Lond.*  
(Econ.) Sr. Lectr.  
Kennedy, T. A., BA *Durh.* (Econ.) Lectr.  
Elkan, W., BSc(Econ) PhD *Lond.* Lectr.  
Livingstone, I., BA *Sheff.*, MA *Yale*  
(Econ.) Lectr.  
Kibaki, E. M., BA BSc(Econ) *Lond.*  
(Econ.) Asst. Lectr.

\* Associate Member of the Association of Universities of the British Commonwealth

Engholm, G. F., BSc(Econ) *Lond.*  
(Pol. Sci.) Lectr.  
Whitaker, P., MA *Dub.*, PhD *Manc.*  
(Pol. Sci.) Lectr.

**Education**

Lucas, E., MA *Camb.* Prof.  
Bright, J. A., BA *Lond.* Reader  
McAdam, Mrs. Hrothgarde L. M.,  
MA *Camb.* Sr. Lectr.  
McAdam, K. J., BA BEd *Melb.* Lectr.  
Creaser, H., BSc *Leeds* Lectr.  
French, A., BA *Oxon.* Lectr.  
Watson, T., MA *Camb.* Lectr.  
Kent, R. B. Lectr.  
Wingard, P. G., MA *Oxon.* Lectr.  
Kajubi, W. S., MSc *Chic.* Lectr.  
Harbottle, Mrs. M., MA *Glas.* Lectr.

**English**

Warner, A. J., MA *Camb.*, PhD *Rand* Prof.  
Stuart, D. D., MA *Cape T.*, BLitt *Oxon.* Sr. Lectr.  
Harris, R. G., BA *Brist.* Lectr.  
Macpherson, Mrs. Margaret, MA *Oxon.* Lectr.  
Carlin, M. M., BA *Rhodes & Camb.* Lectr.  
Warner, Mrs. Phyllis, BA *Liv.*, MA *Rand* Lectr.  
Dane, P., BA *Lond.* Lectr.  
Whitlock, T. G., BA *Rand* Lectr.

**Geography**

Baker, S. J. K., MA *Liv.* Prof.  
McMaster, D. N., MA *Oxon.*, PhD *Lond.* Lectr.  
Langlands, B. W., BA *Lond.* Lectr.  
Ominde, S. H., MA *Aberd.* Lectr.  
Henderson, F. P., BSc *Edin.* (Geol.) Lectr.  
Temple, P. H., BA *Liv.* Asst. Lectr.

**Geology**, see Geog.

**History**

Ingham, K., MC, MA DPhil *Oxon.* Prof.  
Beachey, R. W., BA *Qu.*, PhD *Edin.* Sr. Lectr.  
Gertzel, Cherry J., BA *W.Aust.*, BLitt  
DPhil *Oxon.* Lectr.  
Bridges, R. C., BA *N.Staffs.* Lectr.  
Whyte, J. H., BA BLitt *Oxon.* Lectr.  
Carter, Jennifer J., BA PhD *Lond.* Asst. Lectr.

**Mathematics**

Welter, C. P., MSc PhD *Rand* Reader, Hd. of Dept.  
Phythian, J. E., MSc *Manc.* Lectr.  
Hume, G. C., BSc *Lond.* Lectr.  
Hutson, V. C. L., MA PhD *Camb.* Lectr.  
Mann, C. D., MSc *Leeds* Lectr.

**Medicine**, see below

**Physics**

Andrews, J. P., DSc *Lond.*, FIP Prof.

Thomson, D. M., MA PhD *Camb.* Sr. Lectr.  
Ball, C. J., MA PhD *Camb.* Lectr.  
Harrisson, L. E., MA *Camb.* Lectr.  
Rose, C. W., BSc BEng *Syd.*, PhD *Lond.* Lectr.

**Political Science**, see Econ. and Pol. Sci.

**Sociology and Social Anthropology**

Southall, A. W., MA *Camb.*, PhD *Lond.* Prof., Hd. of Dept.  
Goldthorpe, J. E., MA *Camb.*,  
BSc(Econ) *Lond.* Lectr.

**Veterinary Science**, see below

**Zoology**

Beadle, L. C., MA *Camb.* Prof.  
Bolwig, N., MagScient DrPhil *Copenhagen* Sr. Lectr.  
Miller, P. L., BA PhD *Camb.* Lectr.  
Wasawo, D., MA *Oxon.*, PhD *Lond.* Lectr.  
Thurston, June P., MA *Camb.*, PhD *Lond.* Lectr.  
Goma, L. K. H., BSc *Rhodes*, MA *Camb.* Nuffield Res. Fellow  
Visser, S. A., Ir *T.H.Delft* Nuffield Res. Fellow

**MEDICINE**

**Anæsthetics**

Hamerton, J. R., MB BS *Lond.*, FFARCS  
†Lectr.

**Anatomy**

Galloway, A., MBF, MA MB ChB *Aberd.*,  
DSc *Rand*, FRSSAf, FRCS Prof.  
Allbrook, D. B., MB BS PhD *Lond.* Reader  
Chagula, W. K., BA *Camb.* Lectr.  
Hall-Craggs, E. C. B., BA MB BChir *Camb.* Lectr.  
Davies, A. G. M., MD *Brist.*, DMRD *Brist.*  
& *Lond.* \*†Lectr.  
Sebuwufu, P. H. Temp. Lectr.

**Gynæcology and Obstetrics**

Rendle-Short, Coralie, MB ChM *Brist.*,  
FRCOG Prof.  
Trussell, R. R., MB ChB *Birm.* First Asst.  
Kayton, Daphne Lectr.  
Mansfield, H. N., MD *Lond.* \*†Lectr.  
Alderdice, A. A., MD *Syd.*, MRCP †Lectr.  
Mitford Barberton, G. de B., BM  
BCh *Oxon.* †Lectr.  
Bulwa, F. M. †Lectr.  
Tolley, Mary, MB ChB *N.Z.*, FRCS †Lectr.

**Medicine**

Williams, A. W., MA MD *Camb.*, FRCP Prof.  
Jelliffe, D. B., MD *Lond.*, MRCP  
(Pædiatrics) Prof.  
Shaper, A. G., MB ChB *Cape T.*, MRCP  
Lectr. & First Asst.  
Somers, K., MB BCh *Rand*, MRCP Lectr.

Rankin, A. M., MB BS *Adel.*, MRCP Lectr.  
 Hutton, P. W., MD *Camb.*, MRCP \*†Lectr.  
 Vaizey, J. M., MD *Camb.*, MRCP \*†Lectr.  
 Alderdice, A. A., MD *Syd.*, MRCP †Lectr.  
 Welbourn, Mrs. Hebe, MD *Birm.*

(Pædiatrics) \*†Lectr.  
 Stroud, C. E., BSc MB BCh *Wales*,  
 MRCP (Pædiatrics) †Lectr.  
 White, R., MD (Pædiatrics) †Lectr.

### Pathology

Davies, J. N. P., MD *Brist.* Prof.  
 Wilson, A. A. M., BA BM BCh *Oxon.* Sr. Lectr.  
 Wright, D. H., BSc MB ChB *Brist.* Lectr.  
 McKinney, B. E. G., MB ChB *Rotunda* Lectr.  
 Dodge, O. G., MD *Manc.* Lectr.  
 Buck, S. C., MA MB BChir *Camb.* \*†Lectr.  
 Lothe, F., MB ChB *Sheff.*, MRCPEd \*†Lectr.  
 Holland, J. T., MB ChB *Glas.* †Lectr.  
 Stansfield, D., MB BS *Lond.* †Lectr.

### Pharmacology

Lock, J. A., BSc *Lond.* Sr. Lectr.

### Physiology

Luck, C. P., BSc MB BCh *Rand* Prof.  
 Wright, P. G., BSc PhD *Lond.* Sr. Lectr.  
 Lipton, A., BSc *Lond.* Lectr.  
 Crawford, M. A., BSc *Edin.* (Biochem.) Lectr.

### Preventive Medicine

Bennett, F. J., MB ChB *Cape T.* Sr. Lectr.

### Surgery

McAdam, I. W. J., MB ChB *Edin.*,  
 FRCSEd Prof.  
 Cook, J., MB ChB *Edin.*, FRCSEd First Asst.  
 Lunn, H. F., BSc MB BS *Lond.*, FRCS Lectr.  
 Huckstep, R. L., MA MD *Camb.*,  
 FRCSEd, FRCS Lectr.  
 Burkitt, D. P., MD BAO *Dub.*, FRCSEd \*†Lectr.  
 Ellis-Jones, D. W., MB ChB *Liv.*, DO  
 (Ophthalmol.) †Lectr.  
 Davies, A. G. M., MD DMRD *Brist.* †Lectr.  
 Darling, J. S., OBE, MB BCh BAO *Belf.*,  
 FRCS †Lectr.

Martin, J. A. M., MB BS *Lond.* †Lectr.  
 Batten, K. L., MB BS *Lond.* †Lectr.  
 Alikar, M. J., BPh DDD *Northwestern* †Lectr.  
 Ashman James, P., MB ChB *Brist.*, FRCS †Lectr.  
 Asplett, P. R. (Dental Surg.) \*†Lectr.

### VETERINARY SCIENCE

Polding, J. B., BSc PhD *Lond.* Prof.  
 Jackson, C., BSc *Rand*, BVSc DSc *S.A.*  
 (Vet. Anat.) Prof.  
 Barrett, M. A., BSc *R'dg.* (Animal Husb.) Reader  
 Luke, W. S., BA *Camb.* (Vet. Med.) Reader  
 Simpson, Mrs. Ruth M., BVSc *Liv.*  
 (Vet. Pathol.) Reader  
 Harthoorn, A. M., DVSc *Utrecht*, FRCVS  
 (Vet. Physiol.) Sr. Lectr.  
 Fripp, P. J., BSc *Lond.* (Vet. Physiol.) Lectr.  
 Bosa, G. M., DipVetSc (Vet. Anat.) Asst. Lectr.  
 9 Lectrs.†

### EAST AFRICAN INSTITUTE OF SOCIAL RESEARCH

#### Anthropology and Sociology

Perlman, M. C., BA BLitt *Oxon.* Jr. Res. Fellow  
 Maleche, A., BA *Camb.*, MA *Ohio*  
 Jr. Res. Fellow  
 Woodburn, J. C., BA *Camb.* Jr. Res. Fellow

#### Economics

Ord, H. W., MA *Camb.* Sr. Res. Fellow  
 Stenning, D. J., MA PhD *Camb.*  
 Sec., Appl. Res. Unit

### EXTRA-MURAL STUDIES

Moore, G. H., MA *Camb.* Dir.  
 Resident Tutors for Uganda  
 Prosser, R. C., BSc(Econ) *Lond.*  
 Kironde, E., BA *Camb.*  
 Resident Tutor for Kenya  
 Hughes, I. W., LLB *Wales*  
 Resident Tutor for Tanganyika  
 Slee, A. C. T., BSc *Lond.*, MA *S.A.*,  
 PhD *Cape T.*

### ADMINISTRATIVE AND OTHER STAFF

Wardens : Mitchell Hall, Rev. F. B. Welbourn,  
 MA *Camb.* ; Northcote Hall, H. P. Dinwiddy,  
 MA *Camb.* ; New Hall, M. V. Temple, MA  
*Wales* ; Mary Stuart Hall, Alice M. Burnet,  
 MA *Oxon.* ; University Hall, J. W. T. Allen,  
 MA *Oxon.* ; Livingstone Hall, R. A. Hamilton,  
 MA *Oxon.* Dep. Librarian : E. J. Belton, BA  
*Oxon.*, FLA. Asst. Librarians : Barbara M. A.

Bee, BA *Natal*, FSALA ; Priscilla M. Allen, BA  
*Oxon.*, FLA. Chaplains : Catholic, Rev. Fr.  
 P. Foster, MA *Oxon.* ; Other Branches of the  
 Church, Rev. D. A. Payne, MA *Oxon.* Dep.  
 Bursar : F. G. Sutton ; Asst. Bursars : S. S.  
 Mullin ; Phyllis M. King. Estates Officer, H. C.  
 Bulpin.

## GENERAL INFORMATION

Makerere Coll. was founded in 1922 as a technical sch. under the educn. dept. of Uganda admin. Following the De la Warr report in 1937, which pointed to the future of the coll. as a centre of higher studies in E. Africa, under the inspiration of Sir Philip Mitchell the coll. was presented with land and an endowment and a nucleus of its bldgs. Work on the present admin. block was inaugurated by H.R.H. the Duke of Gloucester, and the block with its twin chapels was completed in 1941. Support and benefactions from African and European sources have consolidated the inter-territorial status of Makerere. On the recommendation of the Asquith commission in 1945 it was definitely decided that the coll. should become the centre of univ. studies in E. Africa. A scheme of special relationship with the Univ. of London\* was entered into at the end of 1949, whereupon the coll. assumed its present title. Courses leading to the general degrees of the Univ. of London in arts and sci. started at the beginning of 1950.

The coll. is wholly residential. It is open to all students, regardless of race, colour and religion, who have the academic qualifs. necessary for admission. Entries are accepted from any of the E. African territories, *i.e.* Kenya, Uganda, Tanganyika and Zanzibar. There is a limited number of places for students from other territories.

The coll. is situated on the outskirts of Kampala. The clin. section of the vet. sch. is at Kabete, near Nairobi. A coll. farm for the fac. of agric. has been establd. at Kabanyolo, 13 mls. from Kampala.

A major bldg. programme has been undertaken since 1948, financed mainly by grants of £2,200,000 from C.D. & W. funds. This includes a library, new teaching and res. bldgs. in all facs., 5 halls of residence, and accomm. for staff.

**CONSTITUTION.** This follows closely the pattern of the English civic univs., with a council consisting of lay and academic members as the governing body, and an academic bd. responsible for all academic matters.

**INCOME (1958-59).** £592,501 (endowment and grants, 3.5 per cent.; govt. grants, 90.5 per cent.; tuition fees, 4.5 per cent.; misc., 1.5 per cent.).

**FACULTIES AND DEANS (1959-60).** *Agric.*, Prof. F. B. Wilson; *arts*, Prof. D. Walker (econ.); *educn.*, Prof. E. Lucas; *med.*, Prof. A. Galloway (anat.); *sci.*, Prof. M. M. Crawford (chem.); *vet. sci.*, Prof. J. B. Polding.

**LOCATION.** The coll. is situated on Makerere hill, and the med. school (*address*: P.O. Box 2072, Kampala) on the adjacent hill of Mulago, both on the outskirts of Kampala. The clin. section of the vet. school is at Kabete, near Nairobi (*address*: P.O. Kabete, Kenya).

**LIBRARIES.** Main library, approx. 62,000 vols.; sub-library at med. sch., approx. 16,000 vols.

**CHAPELS AND MOSQUE.** There are 2 chapels (the chapel of St. Augustine for Catholics and the chapel of St. Francis for members of other branches of the church), and a mosque.

**TEACHING HOSPITAL.** Govt. African hosp. at Mulago, Kampala, on the same site as the med. sch.

**FACILITIES OF SPECIAL INSTITUTIONS.** The East African Inst. of Soc. Res. is administered by the coll. Its main function is field res. in Uganda, Kenya, Tanganyika and Zanzibar, covering anthropol. studies in particular tribes, or urban surveys and comparative studies of particular aspects of problems of interest to all E. African territories in the field of sociol., econ., psychol., public admin. and law, and linguistic res.

**ENTRANCE REQUIREMENTS.** For admission to degree courses in the facs. of agric., arts and sci. the entry requirements approximate closely to those of the Univ. of London. For admission to dipl. courses or the licentiatehip in med. & surg. (LMS(EA)) passes in appropriate subjects must have been obtained in the H.S.C. or G.C.E. (A level). Admission to the sch. of fine art is by a sp. entrance exam. and by passes in the sch. cert. or G.C.E. (O level).

**FIRST DEGREES (of Univ. of London).** The following degrees may be taken under the scheme of special relationship: BA (gen.), 3 yrs.; BA (hons.) in English, hist., geog., maths., 3 yrs.; BSc (gen.), BSc (spec.) in geog. & maths., 3 yrs.; BSc(Econ), BSc(Agric), 3 yrs.

**HIGHER DEGREES (of Univ. of London).** MA, MSc, 2 yrs. after first degree. Open to grads. of Univ. of London.

**DIPLOMAS, LICENTIATESHIP.** The coll. awards dipls. in vet. sci. (4 yrs.), educn. (non-grads., 2 yrs.; grads., 1 yr.) and fine arts (4 yrs.), and a licentiatehip in med. & surg. (5 yrs.). The LMS(EA) is a qualif. registrable by the General Med. Council.

**CERTIFICATES.** The coll. awards a cert. in fine arts (2 yrs., identical with first 2 yrs. of dipl. course), and a cert. in religious studies (3 yrs., may be taken concurrently with any final award).

**LEAVE** in the U.K. or at their homes for members of staff recruited from overseas: 3 months every 2 yrs. For locally recruited staff, 3 months in U.K. every 4 yrs.

**FEES.** Residence, £125; tuition, £30 (arts, sci., educn.) £40 (med., vet. sci.).

**ACADEMIC YEAR.** July to April. 3 terms of 10½ weeks.

1960-61: July 11 to Sept. 13; Oct. 3 to Dec.

\* For a note on these 'special relationship' arrangements, see p. 973

13; Jan. 16 to April 4. 1961-62: July 10 to Sept. 12; Oct. 2 to Dec. 12; Jan. 15 to April 3.

LANGUAGE OF INSTRUCTION. English.

ADULT EDUCATION. The dept. of extra-mural studies provides courses in Uganda, Kenya and Tanganyika.

APPOINTMENTS BOARD. Sec., M. V. Temple, MA *Wales*.

OLD STUDENTS' ASSOCIATION. Makerere Coll. Union Soc. Further information from sec., c/o The Principal, Makerere Coll., P.O. Box 262, Kampala.

RESIDENCE. (For wardens, see 'Administrative and Other Staff', p. 792). On admission to the coll., students reside in one of the halls of residence: Mitchell Hall (112 men), Northcote Hall (180 men), New Hall (160 men), Mary Stuart Hall (100 women), University Hall (160 men), Livingstone Hall (160 men). At Kabete, Kenya, there is accomm. for vet. sci. students in their clin. yrs. and at Kabanyolo for agric. students in their first yr.

STUDENTS' UNION. Makerere Coll. guild.

PUBLICATIONS. *Calendar*; *Annual Report*.

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Wellcome Trust, £12,500 for mobile field lab., physiol. dept.; Ford Foundation, \$136,000 for appl. res. unit, E. African Inst. of Soc. Res.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: new library (opened by H.M. the Queen Mother); extensions to med. sch. and med. library.

RESIGNATIONS. S. J. Colman (extra-mural studies), apptd. dir. of extension, Nfld.; J. M. Wilson (chem.); Lalage Bown (extra-mural), apptd. to extra-mural dept., U.C., Ibadan; Dr. R. W. Beachey (hist.), apptd. assoc. prof., Alta. [since reapptd. to Makerere]; R. C. B. Hartland-Rowe (zool.), apptd. asst. prof., Alta.; D. F. G. Poole (zool.), apptd. lectr., Brist.; Mrs. Margaret Whitaker (art).

DEATH. E. W. Moxham (asst. bursar).

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	813	—
Women . . .	68	—
Total . . .	881	—

Distribution by Faculties. *Agric.*, 49; *arts*, 317; *educn.*, 66; *fine arts*, 28; *med.*, 121; *sci.*, 268; *vet. sci.*, 32. Total: 881.

*Included in the figures above are* :—

Postgraduate students, 4.

New admissions, 199.

Students from other countries, 3. (2 from U.K., 1 from U.S.A.).

DEGREES AWARDED (sp. relation with Univ. of Lond.) (March 1959). BA gen., 18; BSc gen., 12.

DIPLOMAS AWARDED (1958-59). *Agric.*, 13; *educn.*, 43; *fine art*, 5; *med.* (licentiatehips), 11; *vet.*, 4.

CERTIFICATES AWARDED (1958-59). *Fine art*, 5 religious studies, 11.

# UNITED KINGDOM

- 1 University of Birmingham (p. 826)
- 2 University of Bristol (p. 843)
- 3 University of Cambridge (p. 856)
- 4 University of Durham (p. 891)
- 4a Durham Colleges (p. 895)
- 4b King's College, Newcastle upon Tyne (p. 902)
- 5 University of Exeter (p. 914)
- 6 University of Hull (p. 920)
- 7 University of Leeds (p. 926)
- 8 University of Leicester (p. 942)
- 9 University of Liverpool (p. 947)
- 10 University of London (p. 962)
- 11 University of Manchester (p. 1096)
- 12 University College of North Staffordshire (p. 1118)
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- 18 University College of Sussex (p. 1194)
- 19 University of Wales (p. 1196)
- 19a University College of Wales, Aberystwyth (p. 1199)
- 19b University College of North Wales, Bangor (p. 1204)
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- 19d University College of Swansea (p. 1213)
- 19e Welsh National School of Medicine (p. 1218)
- 20 St. David's College, Lampeter (p. 1222)
- 21 University of Aberdeen (p. 1223)
- 22 University of Edinburgh (p. 1234)
- 23 University of Glasgow (p. 1251)
- 24 Royal College of Science and Technology, Glasgow (p. 1266)
- 25 University of St. Andrews (p. 1271)
- 26 Queen's University of Belfast (p. 1282)



*The places named are seats of university institutions as numbered overleaf*

# THE UNIVERSITIES OF THE UNITED KINGDOM

[Contributed by Sir James Mountford, Vice-Chancellor of the University of Liverpool]

**HISTORICAL OUTLINE.** Diversity, rather than conformity to a pattern, is the key to an understanding of the universities of the United Kingdom. All are dedicated to the preservation and advancement of knowledge, to teaching and research, and to education for the learned professions; but in pursuit of these common purposes they exhibit great variety in their general organization, internal government, range and balance of studies, methods of instruction, and student life. The reason for this is not far to seek. The universities were founded at widely different dates, and have been influenced by and have responded in different ways to changing intellectual and social environments. Above all, they have always been autonomous bodies, evolving in their own ways, finding solutions wherever possible for their own problems, and remaining free from any attempt on the part of the state to impose uniformity on them or to subject them to a central control.

It is nevertheless possible and convenient to treat the universities as belonging to one or other of four main groups, the members of each of which have a more or less close family resemblance. These groups are: the two older English universities of Oxford and Cambridge; the four Scottish universities; the universities of London, Durham and Wales, all of which have federal constitutions; and the modern or 'civic' universities.

The universities of Oxford and Cambridge originated in guilds of teachers who settled in those towns in the second half of the 12th century. The early development of Oxford is closely connected with the expulsion in 1167 of foreign-born scholars from the University of Paris, while that of Cambridge is associated with a migration of scholars from Oxford in 1209. Quite early in the history of both universities, pious benefactors founded residential colleges for teachers and students; University, Balliol and Merton colleges in Oxford date from 1249-64, and Peterhouse in Cambridge from 1284. In succeeding centuries, colleges have continued to be established right up to the present time (e.g. St. Antony's at Oxford in 1959 and Churchill College at Cambridge in 1960). There are now at Oxford 26 colleges and 5 other recognized 'halls' for men and 5 colleges for women; at Cambridge there are 18 colleges and one other recognized 'house' for men, and for women there are 2 colleges and 2 recognized 'halls' (including New Hall founded in 1954). Most of the colleges have 300 undergraduates or

less; but a few, such as Christ Church at Oxford and Trinity at Cambridge, are very considerably larger. This collegiate system has long been the outstanding characteristic of Oxford and Cambridge. Each college is a completely autonomous body so far as its property, finances and internal affairs are concerned. The university has its own separate identity and its own constitution; and it would be quite misleading to think of it as a federation of colleges or as a body which, except within strict limits, has any control over the colleges. Although at Oxford and Cambridge it is the universities themselves which alone have the right to confer degrees and determine the conditions on which they grant them and which provide the central libraries and laboratories as well as much formal instruction, the vital focus of academic life is in the colleges: it is by being a member of a college that a student becomes a member of the university; for some part of his student career he resides in his own room in his college; he dines regularly in the college hall where the head of the college presides at the high table; though regular attendance is no longer compulsory, the college chapel fosters his religious observances; the college library provides a quiet haven where he can read seriously or browse at leisure; and his studies are to a great extent guided by the senior members (generally called 'fellows') of his own college who have rooms and (if unmarried) live within the college building. A student's loyalty to his college and affection for it continue throughout later life.

The history of these two universities and of the colleges is closely interwoven with the broad pattern of national development: at the Reformation, for example, they suffered confiscations of land and revenues; and in the 17th century Oxford so staunchly supported the king in the civil war that he made the town his headquarters. Through the centuries many of the leading figures in statesmanship, the law, the church and literature as well as in scholarship, were trained in one or other of these two universities, and the portraits of notable men which adorn the dining-halls and common-rooms of the colleges to which they belonged are an epitome of the annals of the nation.

The mediæval curriculum, based on the seven liberal arts (the *trivium*—grammar, logic and rhetoric—and the *quadrivium*—arithmetic, geometry, music and astronomy) with the addition of the higher 'faculties' of theology, law and



medicine, persisted up to the time of the Reformation and beyond; indeed even as late as the second half of the 18th century teaching was still largely traditional; and formal and written examinations for degrees were not introduced (first in Cambridge) until 1772. In the 19th century, however, and particularly after 1850, widespread reforms were inaugurated as the vigour of the two universities asserted itself, religious tests for membership of the university were abolished (the last in 1871), modern subjects of study were encouraged and developed, and to the prestige deriving from antiquity of foundation there was added the intellectual and educational primacy which in many fields is accorded to Oxford and Cambridge. In the session 1958-59 there were 8699 full-time students at Oxford and 8844 at Cambridge.\*

Three of the Scottish universities trace their origins to the 15th century, St. Andrews being founded in 1411, Glasgow in 1451 and Aberdeen in 1494. The fourth, Edinburgh, was established by the town council in 1583. As now constituted, St. Andrews incorporates three and Aberdeen two other foundations (all dating from the 15th or 16th centuries) which were at one time independent; and Queen's College, Dundee, founded in 1881, is also part of the University of St. Andrews. To Glasgow there is now affiliated the Royal College of Science and Technology.

Though it was John Balliol, father of a king of Scotland, who founded one of the oldest colleges in Oxford, the idea of colleges where senior and junior members live together communally did not take firm root north of the border; and apart from St. Andrews, where the newer type of halls of residence has been specially fostered within the last half-century, a long tradition within the Scottish universities has favoured the independence of the student in the matter of living accommodation. As in England the sons of Oxford and Cambridge have played a prominent part in the national life, so in Scotland the names of many who have moulded the fortunes of the northern kingdom or brought lustre to the name of Scotland in public life and in the learned professions are associated with the universities.

At this point of time it is hazardous to institute comparisons over the centuries; but it is clear that the Scottish universities in their teaching and curriculum freed themselves from the formalities of the mediæval scheme of studies rather sooner than did Oxford and Cambridge; and though the level of attainment for degrees fluctuated considerably from time to time, at no period in Scotland does the social side of university life appear to have predominated over the intellectual as it did in the two English universities in the 17th and 18th centuries. In the session 1958-59 there were 2418 full-time students at St. Andrews, 5583 at Glasgow (together with 1766 at the Royal College of Science and Technology), 1872 at Aberdeen and 5537 at Edinburgh.

The University of London, now the largest in the country with 20,993 full-time students in 1958-59, was not established until the 19th century. It was in 1826 that, in part as a protest against the denominational tests still imposed at that time for entry to Oxford and Cambridge, what is now known as University College, London, was founded; and as a counter-protest King's College, London, came into being in 1829. The University of London itself was constituted by royal charter in 1836 as a body empowered to examine and confer degrees on students of approved institutions, and until 1900 its work was restricted to these functions in the exercise of which, however, it influenced and co-ordinated the work of the various other colleges of university rank which were founded from time to time in London (*e.g.* Bedford College for Women in 1849). From 1858 its degrees, except in medicine, were made available for students other than those in certain recognized institutions and the external degrees of the university which were then instituted still continue to provide both at home and overseas an academic award of high standing for part-time students and others who are not enrolled in a university. London, too, in 1878 was the first university in the United Kingdom to admit women to its degrees. Since 1945 it has had special relationships with the new university colleges founded in colonial territories under the auspices of the Inter-University Council (*see* pp. 818 and 973).

In 1900 and again in 1926 the university's constitution and powers were revised and it is now not only a teaching as well as an examining body, but has become a federation in which are incorporated 13 medical schools associated with hospitals, 14 non-medical colleges (called schools of the university, and including *e.g.* University College and King's College), together with a number of postgraduate and other institutions. Some other centres of higher education in London are also affiliated to the university, and in still others certain members of staff are recognized as teachers of the university. The six largest schools of the university are University College (with 2938 full-time students in 1958-59), Imperial College of Science and Technology (2541), King's College (2105), London School of Economics (2062), Queen Mary College (1304) and Guy's Hospital Medical School (1048).

The University of Durham was founded in 1832 largely on the initiative of the cathedral authorities. The College of Medicine in Newcastle upon Tyne, established in 1834, was linked with the university in 1852 and in 1871 the College of Physical Science (later Armstrong College) in Newcastle was founded as part of the university. The university is now organized on a federal basis in two divisions, one consisting of the Durham branch and the other of the College of Medicine and Armstrong College in Newcastle amalgamated under the name of King's College. There are,

\* See footnote to p. 810

however, proposals afoot that the Newcastle division should become an independent university. From its inception the university in the city of Durham was influenced by the collegiate pattern of Oxford and Cambridge, and eight of its halls of residence, in which 64 per cent. of its students live, have the status of colleges of the university, the oldest dating from 1833. In 1958-59 there were 1398 full-time students in Durham itself, and 3556 in King's College, Newcastle. With the university there are affiliated Codrington College, Barbados, West Indies, and Fourah Bay College, Freetown, Sierra Leone, West Africa.

Like London and Durham, the University of Wales is federal. It was in 1872 that a university college was founded in Aberystwyth as the result of a movement for higher education supported, often from the most meagre resources, by all sections of the population of the principality. In 1883 a second college was established in Cardiff and a third in Bangor in 1884. The University of Wales was founded in 1893 with Aberystwyth, Cardiff and Bangor as its constituent colleges; a fourth college was established at Swansea in 1920; and in 1931 the Welsh National School of Medicine, originally an offshoot of the Cardiff college, was given the status of a school of the university. In 1958-59 there were 5851 full-time students in the university as a whole, Cardiff having 1819 and Aberystwyth 1433.

The modern or 'civic' universities of England, which collectively had 32,200 full-time students in 1958-59, gained their full status only in the present century. Their rise and development has profoundly modified the whole pattern of university education in England.

They mostly had their origin in the university colleges which, under various designations, were established in large centres of population in the second half of the 19th century. These colleges themselves were in many instances the inheritors and successors of more loosely organized literary, scientific and cultural societies, many of which had been influenced by the extension courses and lectures provided by Oxford and Cambridge. The primary purpose underlying the establishment of these colleges was to provide centres of higher learning at a university level for the young people of the area in which they were founded. By their very nature they were not conceived as being residential on the Oxford and Cambridge pattern; the idea of halls of residence took root slowly; and though the universities which have emerged from them now draw their students from all parts of the country, few provide accommodation for more than 25 per cent. of their undergraduates. In some places the driving force which led to their foundation was an individual benefactor, in others the local community as a whole was inspired to provide itself with a college. The earliest of these newer institutions was Owen's College in Manchester (1851), followed by the Yorkshire College of Science in Leeds (1874), University College, Bristol (1876), Firth College, Sheffield (1879), Mason Science College in Birmingham (1880),

University College, Liverpool (1881), University College, Nottingham (1881), Reading University College (1892) and Exeter University Extension College (1894). Within the 20th century Hartley University College was founded in Southampton (1902), a University College in Leicester (1918) and a University College in Hull (1927). Where there was also a local school of medicine, it generally became closely linked with the university college and so formed the nucleus of a future faculty of medicine.

Until they attained the status of full universities, these colleges prepared their students for the external degrees of the University of London. The first move was in the direction of federation. By a charter of 1880 the Victoria University was founded with a federal constitution and Owen's College, Manchester, was made the first constituent college, to be joined subsequently by University College, Liverpool (1884), and the Yorkshire College, Leeds (1887). In 1900, however, Mason College in Birmingham obtained its own charter as a university, and any trend towards federation was abruptly halted. Liverpool obtained its own charter in 1903, and Leeds in 1904, leaving the title of Victoria University in the sole possession of Manchester. Sheffield was granted a charter in 1905 and Bristol in 1909. The other university colleges had longer to wait, and apart from Reading, which obtained full status in 1926, no other universities were created until after the end of the second world war. There then followed in quick succession Nottingham (1948), Southampton (1952), Hull (1954), Exeter (1955) and Leicester (1957). In 1958-59 Manchester had 4626 full-time students, together with 1487 in the affiliated Manchester College of Science and Technology; Leeds had over 4500; Birmingham had nearly 4000, Liverpool over 3600 and Bristol over 3000; Sheffield exceeded 2700 and Nottingham had nearly 2400; Hull, Reading and Southampton had more than 1400 and Exeter more than 1200; and at Leicester there were more than 1000.

With the civic universities we can include the Queen's University of Belfast. It was founded by royal charter as Queen's College in 1845, and, together with colleges in Cork and Galway, became part of a federal Queen's University in 1850. In 1880 the title of the university was changed to the Royal University of Ireland; and in 1908 a fundamental reorganization led to the establishment in what is now Eire of a National University of Ireland consisting of University College, Dublin, and the colleges in Cork and Galway, and to the conferring of full and separate university status on the college in Belfast under its present title. The income of the Queen's University is now largely derived from the government of Northern Ireland, which since 1945 has relied on the advice given by the University Grants Committee. The number of full-time students in the university is in excess of 3200. (For the University of Dublin (Trinity College) see Appendix I.)

The University College of North Staffordshire

was founded in 1949 at Keele Hall near Newcastle-under-Lyme, largely on the initiative of the late Lord Lindsay of Birker, master of Balliol College. It is exceptional in several respects: its curriculum provides an integrated course of study in the humanities, the social sciences and the natural sciences; though not of full university status it is nevertheless empowered to confer the degree of BA; major academic matters are controlled by a board, the majority of whose members are representatives of the universities of Oxford, Manchester and Birmingham; and it is a self-contained and entirely residential academic community. In 1958-59 it had 689 students.

The youngest member of the university family is the University College of Sussex at Brighton which was formally constituted in 1959. It owes its origin to a scheme formulated locally, in support of which the University Grants Committee agreed to make grants for capital expenditure and maintenance. A draft constitution has been approved and Mr. J. S. Fulton, formerly principal of University College, Swansea, and vice-chancellor of the University of Wales, took up his duties as the first principal in October 1959. It is expected that sufficient progress will have been made with academic buildings and the recruitment of staff for a small number of students in arts to be admitted in October 1961 and a full entry of 200 in arts and science in October 1962. To begin with, students will be accommodated in lodgings in Brighton itself. The new college will grant its own degrees of BA and BSc and standards will be guaranteed by an academic advisory committee of five or six outside persons of recognized standing. A distinctive feature of the curriculum in arts will be the grouping of subjects under the headings: English studies, European studies and social studies.

The only other degree-giving institution in the United Kingdom is St. David's College at Lampeter in Wales. It was established in 1822 and its royal charter empowers it to confer bachelor's degrees in arts (BA) and theology (BD and LTh). It is entirely residential and in 1958-59 had 162 students.

It was only belatedly that women achieved full status within the universities. Although Bedford College for Women was established in London in 1849, it was not until 1878 that the University of London led the way for other universities by admitting women to degrees. At Oxford, Lady Margaret Hall was founded in 1878, Somerville in 1879, St. Hugh's in 1886, St. Hilda's in 1893 and St. Anne's (formerly the Society of Oxford Home-Students, established in 1879) in 1952. Of the Cambridge colleges, Girton originated at Hitchin in 1869 and was removed to the near neighbourhood of Cambridge in 1873. Newnham was founded in 1871. Oxford admitted women to examinations in 1884, to degrees and full membership in 1920 and to university teaching posts in 1927. Cambridge admitted women informally to tripos examinations in 1872 and to 'titles of degrees' in 1923; in 1926 women were declared eligible for university teaching posts and therefore for membership of boards of faculties, but not

until 1948 were they admitted to actual degrees and full membership of the university. Women have been admitted to the universities of Scotland since 1892, to Durham since 1896 and to all the modern civic universities from their foundation.

**UNIVERSITY CONSTITUTIONS.** All the universities of the United Kingdom exercise their rights and functions in virtue of royal charters, which in the case of the older English and Scottish universities superseded the earlier papal bulls which authorized their foundation. Supplementary to the charter of each university, and in conformity with it, are statutes (in Scotland, ordinances) which are approved by the sovereign in council. A charter defines the powers, privileges and constitution of the university in broad general outline; the statutes, which within the framework of the charter can be amended on the initiative of the university, provide for the more important and permanent details which, particularly in matters of constitution, need to be clearly set forth. Subsidiary to the charter and statutes, there are ordinances, decrees, graces and regulations which the university itself finds it convenient to promulgate from time to time for the orderly conduct of its affairs; and it is under these headings that, for example, the particular requirements for entrance and for the award of degrees are laid down.

Each university has as its official head a chancellor, a person distinguished in rank, in public service or in scholarship, who is elected for life by one of the statutory bodies of the university. Though the office is in the main honorific, the chancellor normally presides at the largely formal meetings of the supreme governing body of the university and at congregations where he confers degrees. Many universities provide for the election of one or more pro-chancellors for a limited period of years who act for the chancellor in his absence, except in the matter of conferring degrees, which then becomes a function of the vice-chancellor. In the four Scottish universities, in addition to the chancellor, there is also a rector elected for a period of three years by the matriculated students for the time being; he may be a person of great distinction, a popular figure, or a transient notoriety; he is *ex-officio* president of the university court, though in most instances he does not exercise this right; he also appoints to the court an assessor who may in fact act for a succession of rectors. In most universities the chief academic and administrative officer is the vice-chancellor, who holds a permanent appointment (except in Oxford, Cambridge, London, Durham and Wales, where his tenure is for two to four years); in Scotland the official title is principal, though the holder of the office is usually nominated as vice-chancellor by the chancellor; in London there is also a permanent officer with the title of principal who shares administrative and academic duties with the vice-chancellor. The chief executive functions are in the hands of the registrar or secretary, who prepares the official business for the university bodies, keeps the uni-

versity records and ensures the carrying out of official enactments. At both Oxford and Cambridge there are two proctors appointed annually from amongst the fellows of colleges whose primary functions are the care of undergraduate discipline but who are also *ex-officio* members of certain university bodies.

The academic side of university government is based on faculties each of which is concerned with the affairs of a group of related studies; and for the minor details a faculty is often advised by boards of studies. The number of faculties varies from one university to another as to some extent does the grouping of subjects within faculties of the same name in different universities. The work of the faculties is co-ordinated and approval given to their recommendations by some higher academic body, which in the majority of universities is called the 'senate'. The conduct of financial affairs is very generally entrusted by charter or statute to a university body for which the commonest name is the 'council'. Ultimate authority within the university is, in most instances, vested in a supreme governing body for which 'court' is the most usual name.

When we turn to the individual universities or groups of universities we find not only that there are many confusing divergences of nomenclature but that within the broad pattern outlined above the precise distribution of function as between the various bodies is far from being identical. Furthermore, very important distinctions can be drawn according to the size and composition of the university bodies and the powers and influence within the university constitution which is exercised by the academic staff, by the graduates of the university or by lay members nominated and appointed from outside the university.

At Oxford and Cambridge the government of the university is entirely in the hands of members of the university and there is no representation of any outside authority on any of the statutory bodies. At Oxford the chief legislative functions are in the control of the 'congregation', a very large body comprising the resident teachers and administrators in the university; every measure submitted to it, however, has to be initiated by the 'hebdomal council', a smaller body of between twenty and thirty members elected from within the university, which digests the great volume of business coming from the general board of the faculties. Financial administration, though not financial policy, is entrusted to the 'curators of the chest', an elected body of twelve academic persons, who must be consulted by the hebdomal council when finance is involved in its proposals. When a statute is passed by congregation by less than a two-thirds majority it must be submitted to 'convocation', a body to which belong masters of arts and holders of higher degrees who have kept their names on their college books and paid their dues. Convocation, however, has only a suspensory veto and that for a limited time. Its other functions are to elect the chancellor and to approve honorary and official degrees. In view of the fact that most

of its members reside far from Oxford, it is only rarely and only on the most controversial of issues that more than a fraction of its members assemble. At Cambridge the pattern is very similar to that at Oxford. The chief legislative body is called 'regent house', to which belong the teachers and administrators resident in the university. The much smaller initiating and executive body which sifts the proposals of the general board of the faculties is called the 'council of the senate'; it consists of the chancellor and vice-chancellor together with sixteen resident graduates elected by regent house. Corresponding to convocation at Oxford there is the senate, consisting of bachelors of divinity, masters of arts and doctors; apart from some formal duties, it elects the chancellor and is a court of appeal in certain cases from decisions of regent house. Financial affairs are in the hands of a financial board comprised of a small number of academic persons elected or appointed by the other university bodies.

In quite sharp contrast to the self-contained form of university government at Oxford and Cambridge are the constitutions of the modern 'civic' universities. At Oxford and Cambridge the government of the university has in essence evolved from the closed corporations or guilds of teachers and students. In the modern universities the pattern was determined by other considerations, not the least of which was the large spread of interested bodies which were concerned in their foundation and development. Here the three major bodies are the court, the council and the senate. The court is the supreme governing authority; it is a large body, often between 300 and 400 in number, containing not only the professors and representatives of the graduates of the university and heads of schools, but persons nominated by other universities, by local authorities and educational organizations within the university area, by religious denominations, and by learned societies. It meets annually to receive the financial accounts and other reports on the work of the university and to appoint certain university officers; it may also meet specially for other purposes; and in most cases it is the body which elects the chancellor, and in a few cases appoints the vice-chancellor. The council, generally containing between 30 and 40 persons, is the body which administers the finances of the university; it confirms the recommendations of senate for academic appointments; and it authorizes academic regulations proposed by senate; in most universities, generally in consultation with the senate, it appoints the vice-chancellor. The majority of its members are appointed by the court, a restricted number is nominated by senate or faculties from amongst the professoriate and other teaching staff, and some are nominated by local authorities; the chancellor and vice-chancellor are *ex-officio* members. The council is thus predominantly not an academic body, though some or many of its lay members may in fact be graduates of a university. Though it has wide powers which could be used to thwart the considered advice

and recommendations of the senate, it refrains in practice from interfering in matters of purely academic policy, and in academic appointments; and it is generally agreed that the worldly wisdom and experience of affairs collectively possessed by the council has in many ways brought very considerable advantages to the newer universities. The senate, of which the vice-chancellor is *ex-officio* chairman, is, subject to the powers of council, the chief academic body; it approves and co-ordinates the work of the faculties, makes recommendations for the filling of professorships and other academic posts, and is responsible for the teaching and discipline of the undergraduates. Its membership consists of the professors of the university with the addition in most cases of a limited number of representatives of the other teaching staff, who apart from their wide representation on faculties and boards of studies do not have a share in the university government comparable to that afforded by the congregation at Oxford or regent house at Cambridge. The graduates of a modern university are members of a statutory body generally called convocation which meets annually and may discuss and express an opinion on any matter concerning the university but has no powers corresponding to those of the convocation at Oxford or the senate at Cambridge.

The government of the Scottish universities is defined by the Universities (Scotland) Acts of 1858 and 1889, modified in the case of St. Andrews by an act of 1953. The supreme governing body is the court, which, unlike the body of the same name in England, is a small but powerful one consisting of the rector, the principal, the lord provost of the city, three members nominated by the chancellor, the rector and the lord provost, four members elected by the academic senate and four by the general council; it administers the property and finances of the university, makes academic appointments, and can review any decision of senate against which there is an appeal. In St. Andrews the court is of the same general pattern but consists of 21 persons. The 'senatus academicus', which has responsibility for instruction and discipline, and has the sole power of granting degrees, consists of the professors of the university together with a limited number of other members of the teaching staff; its *ex-officio* chairman is the principal, who is appointed by the crown except at Edinburgh, where his appointment (like that of a small number of professors) is in the hands of a special body of curators of patronage. The general council, which consists of the chancellor, the members of the court, the professors, the graduates, and readers and lecturers of one year's standing, meets twice annually and may make representations to the court on any matter affecting the university; it elects the chancellor and appoints its own four representatives to the court.

The underlying principle of the constitution of the federal universities of London, Durham and Wales is that in academic and financial matters which concern the whole university the central

authority has control, leaving the constituent colleges and institutions to manage all other matters for themselves. In London the court, which has 17 members including representatives of the senate, persons appointed by the crown and persons nominated by the London County Council, controls the finances; it is the body which applies to the University Grants Committee, local authorities and other public bodies for grants and distributes them to the constituent schools and institutes of the university. The senate is the supreme governing and executive body in academic matters, and appoints, in consultation with the school concerned, the professors, readers and all but the more junior members of the teaching staff. Its fifty or so members include representatives of the constituent schools, of the faculties and of the graduates; amongst its important standing committees are the academic council and the collegiate council. Convocation, which consists of the graduates who have paid a prescribed fee, elects 17 members to the senate, and may discuss and express its opinion on any university matters; it is a matter of importance that its elected chairman is *ex officio* a member of the court and of the senate. Each of the constituent schools of the university has its own internal form of government, consisting in general of a governing body with lay representation, an academic board composed from members of the teaching staff and a finance committee.

The governing bodies of the University of Durham are a court of about 30 members, the senate, boards of faculties and convocation, all of which have functions closely similar to the corresponding bodies in London. In the composition of these bodies the two divisions of the university at Durham and Newcastle have appropriate representation and the court contains a number of lay members. The warden of the Durham Colleges and the rector of King's College, Newcastle, alternately act for periods of two years each as vice-chancellor. For its internal affairs each division is governed by a council and an academic board.

The University of Wales is governed centrally by a large court of over 250 members, including representatives of local authorities and public bodies in Wales and of the graduates of the university. Its finances are controlled by a council of about 20 members, on which in addition to the vice-chancellor and heads of the constituent colleges there are members appointed by the court and by local authorities. Academic matters are in the hands of an academic board consisting of representatives of the faculties in the constituent colleges. The guild of graduates is constituted similarly to the convocation of the modern universities, and has the same right of expressing its opinion on university matters. Each of the constituent colleges has its own board of governors, council and senate for the conduct of its internal affairs. The principals of the four constituent university colleges act in rotation as vice-chancellor, each for a period of two years.

**RELATIONSHIP TO GOVERNMENT.** The universities of the United Kingdom are independent self-governing bodies which do not come within the jurisdiction or control of any ministry. It is from royal charters that they derive their rights and privileges; and any amendment of their charters or statutes is made by the crown acting through the privy council on the application of the universities themselves. It is true that, from time to time, royal commissions have been appointed and acts of parliament passed to deal with situations which the universities themselves for one reason or another were unable to resolve: such, for example, are the Oxford and Cambridge University Acts of 1854, 1856 and 1877, the Durham University Acts of 1861 and 1935, the London University Acts of 1808 and 1926 and the St Andrews University Act of 1953; but the initiative in setting these exceptional procedures in motion has generally come from within the universities themselves and they have always been adopted with the co-operation or at least the concurrence of the universities concerned. Furthermore, whatever changes may thereby have been effected in the constitution or structure of a single university, the essential autonomy of universities both individually and collectively has invariably been preserved: they alone decide what degrees they shall award and the conditions on which they shall grant them; they alone decide what students they shall admit and what professors and other academic staff they shall appoint; they can hold property and they have unfettered discretion in the use of their own funds.

This freedom of the universities from any form of governmental direction is all the more noteworthy when viewed against the background of financial assistance which is now given to universities by the Treasury. Until the end of the first world war, such grants as were made to universities from governmental sources were sporadic and inconsiderable in amount. Universities relied for most of their income on endowments and private donations, on the fees paid by their students, and in many cases on grants from local authorities. In July 1919, however, when the financial stability of universities was causing great anxiety, the Treasury established a standing committee with the title of 'The University Grants Committee' which had the following terms of reference: 'To enquire into the financial needs of university education in the United Kingdom, and to advise the government as to the application of any grants that may be made by parliament towards meeting them'. For the session 1919-20 the total of the grants made available to the new committee for distribution to the universities and the independent university colleges was £916,000; by 1929-30 the sum had risen to £1,800,000; and it increased slowly to £2,224,000 in 1939-40, by which time it represented just over one-third of the entire income of the universities. During the second world war, when the contribution of the universities to the national effort, especially on the scientific side, was

of paramount importance, the maintenance of the annual Treasury grant at much the same level saved the universities from undue worry about their finances.

By 1945 it had become clear that there would be in the future a greater demand and a greater need than ever before for university education; and that consequently not only must the subvention provided by the state be increased but also the nature of the partnership which, for a quarter of a century, had been developing between the universities and the University Grants Committee should be made more explicit. In 1946, therefore, the terms of reference of the University Grants Committee were significantly revised, and with the further amendments approved in 1952 they now read as follows: 'To enquire into the financial needs of university education in Great Britain; to advise the government as to the application of any grants made by parliament towards meeting them; to collect, examine, and make available information relating to university education throughout the United Kingdom; and to assist, in consultation with the universities and other bodies concerned, the preparation and execution of such plans for the development of the universities as may from time to time be required in order to ensure that they are fully adequate to national needs'. The declared function of the University Grants Committee is no longer formally restricted to the distribution of grants; and the co-ordinated development of the universities in the post-war years has been firmly founded on the information and advice which the committee has placed at the disposal of the universities and on the continuous consultations which have taken place on matters of broad policy no less than on details of planning. The extent to which parliamentary grants made available to the committee and so to the universities have increased in the post-war period is indicated by the following figures. Apart from grants for buildings and equipment, the amount given towards recurrent expenditure for the five-year period 1947-52 was £64,630,000; for 1952-57 it was £120,000,000; and in March 1957 the chancellor of the exchequer announced that the grants for 1957-62 would be £173,500,000, rising from £30,600,000 in 1957-58 to £39,500,000 in 1961-62. The recurrent Treasury grant in the session 1947-48 represented 55·8 per cent. of the total income of universities; in 1958-59 it accounted for almost 68 per cent.

There are three reasons why this vast increase in the actual sums given to universities and the striking change in the proportion such sums bear to total income have not brought with them any diminution in the autonomy of the universities. In the first place, informed public opinion is convinced that universities could not do their work effectively if there were any encroachment on their freedom; secondly, there is a firmly established feeling of confidence between the universities and the government; and thirdly, the wisdom and impartiality of the University Grants Committee

itself and the effectiveness of the committee's procedures in relation both to the Treasury and the universities have provided a practical solution for a situation which could have raised problems of great magnitude.

The University Grants Committee (abbreviated as U.G.C.) as now constituted has two full-time officers, a chairman (Sir Keith Murray, BSc PhD MA BLitt) and a secretary (Sir Cecil Syers, KCMG, CVO, MA), who are assisted by a small number of permanent officials. The sixteen other members of the committee are appointed by the chancellor of the exchequer after consultation with the minister of education and the secretary of state for Scotland, are part-time and unpaid, and individually serve for a term of years only. Rather more than half of these members are university professors or other persons of high academic distinction and sound judgment who have an intimate knowledge of universities; and though they are appointed as individuals and not as representatives of particular universities or of particular fields of study, they are so selected that collectively they can assess academic needs of all kinds. The other members of the committee include the headmaster of a famous school, a local authority director of education and prominent leaders of commerce and industry. Generally at least one member of the committee is a woman. From time to time the main committee appoints sub-committees consisting of a nucleus of its own members who sit with the appropriate experts to advise it on particular topics such as medical education, social science, slavonic studies, technology, halls of residence. The offices of the committee are at 38 Belgrave Square, S.W.1 (tel.: Sloane 9912). The committee publishes annually a statistical abstract entitled *Returns from Universities and University Colleges*, which deals with the various categories of students, the degrees and diplomas awarded and the staffing and finances of the individual universities. After the end of each quinquennium the committee also publishes a lengthy report entitled *University Development* which is much less statistical than the annual returns but provides an invaluable survey of the whole field of university affairs; it is here that one gets the clearest picture of the broad lines of progress, of the needs that are emerging and of the problems that still await solution.

The recurrent grants made through the University Grants Committee are based on a five-year period. A year or so before the beginning of each quinquennium members of the committee and of some of the sub-committees visit each university institution to gain by personal contact with the governing body, the professors, the non-professional staff and the students an insight into the working of the university, its achievements, its needs and its programme for development. So far from being inquisitorial, these visits are a fruitful source of mutual understanding. By a fixed date each university subsequently submits to the committee a detailed estimate of its income and

expenditure for the ensuing quinquennium, and on the basis of these estimates the committee makes its own consolidated recommendation to the Treasury. When on the advice of the chancellor of the exchequer, parliament has voted the money which he judges to be needed, the committee makes an allocation to each university in England, Scotland and Wales. In the case of Oxford and Cambridge the colleges do not participate in the allocation, which is made for university purposes only; in London, Durham and Wales the central university authorities distribute the allocation made to the university amongst the constituent colleges and institutions.

It is at this point that the freedom of the universities is made particularly manifest. The assistance provided is given as a block grant for each of the five years and is not divided under sub-headings; and apart from an understanding that academic salaries shall be paid within agreed ranges, each university expends its grant alongside its other income in the way it thinks best. For their part, the universities are very conscious and jealous of the trust thus reposed in them, and no one of them would contemplate embarking on a major change of policy involving heavy future commitments without previous consultation with the committee. This quinquennial system of grants also affords a valuable element of flexibility in the conduct of university affairs; within reasonable limits a university can plan with some confidence for five years ahead and husband its resources accordingly.

Non-recurrent grants made by the Treasury towards the cost of new buildings and their equipment, the adaptation of older structures and the acquisition of sites, are assessed on an annual basis, though the total amounts to be made available for each year are announced well in advance so that planning can proceed in an orderly fashion. The proposals made by the universities for such capital expenditure are given an order of priority by the University Grants Committee and approved within the limits of available finance. Before final approval is given, the plans for each separate building are scrutinized and commented upon by the committee with the assistance of the Ministry of Works; and a document known as the Gater Report, published in 1956 under the auspices of the committee, was intended to assist universities in ensuring the maximum economy in their building procedures. From time to time also, on the basis of its accumulated experience, the committee indicates what standards of accommodation for various purposes it considers reasonable in normal circumstances. In the earlier post-war years, when the resources of the universities were at a low ebb, most of the non-recurrent grants covered the whole cost of a project. More recently, as universities have in varying degrees been able to secure funds for themselves by public appeals, they have found it possible to contribute something towards the cost of new buildings from their own resources; but for the major part of such expenditure they



have still to rely on Treasury aid.

Between 1947 and 1957 approximately £42,000,000 was expended by way of non-recurrent grants; for each of the years 1958 and 1959 the sum of £12,000,000 was promised and for the years 1960-63 a total of £60,000,000.

**FINANCE.** In the session 1958-59, which is the latest year for which complete returns are available, the total income of the universities of Great Britain amounted to £52,273,306. The chief items within this sum were: interest on endowments, £1,795,344 (3·4 per cent.), of which £943,259 was for particular purposes and £852,085 for general purposes; donations and subscriptions, £479,093 (0·9 per cent.); grants from local authorities, £1,500,918 (2·9 per cent.); Treasury recurrent grants, £35,476,015 (67·9 per cent.); grants from other government departments, £972,103 (1·8 per cent.); tuition, examination and other fees, £5,739,316 (11 per cent.) including £209,466 from the Ministry of Education for the fees of teachers in training; payments for research, £3,657,530 (7 per cent.), of which £1,801,440 came from government departments and £1,856,090 from other bodies; and various miscellaneous items, £2,652,987 (5 per cent.).

For the same session, 1958-59, the total expenditure of the universities, apart from £403,186 allocated to reserves, amounted to £51,526,275. The major items within this sum were: administration, £3,529,171 (6·8 per cent.); salaries and payments for superannuation of teaching staff, £22,900,637 (44·4 per cent.); departmental and laboratory maintenance, including wages of technical staff, £10,326,286 (20·4 per cent.); libraries and museums, £2,155,268 (4·1 per cent.); repairs and maintenance of buildings, £1,763,843 (3·4 per cent.); other maintenance costs including light and heating, £4,988,764 (9·7 per cent.); capital expenditure met from income, £468,925 (0·9 per cent.); general educational expenditure including examinations, publications and student amenities, £3,201,703 (6·2 per cent.); and miscellaneous items, £2,191,678 (4·3 per cent.).

**PRE-UNIVERSITY EDUCATION.** All but a relatively small minority of the English and Welsh students who enter the universities have been educated up to the age of 18 or over in one or other of three types of grammar school. First there are the grammar schools maintained or assisted and controlled by local education authorities with the aid of grants from the Ministry of Education; pupils in these schools pay no fees and with rare exceptions will have had their primary education up to the age of 11 or 12 in a school maintained by a local education authority; they account for about 78 per cent. of the whole grammar school population; and pupils from such schools account for about 60 per cent. of the university population. Secondly, there are direct grant schools which receive aid directly from the Ministry of Education and not through a local education authority; it is a condition for receiv-

ing grant that at least one-quarter of the pupils shall have free education and that the fees payable by the remainder shall be related to parental income; these schools are controlled by a board of governors on which local education authorities must be represented; many, but not all, of the pupils will have previously attended a local education authority primary school up to the age of 11 or 12, which is the normal age for entry to direct grant schools; the pupils in these schools account for about 12·5 per cent. of the whole grammar school population; and pupils from such schools account for about 13·5 per cent. of the university population. Thirdly, there are the independent schools which receive no grant from the Ministry of Education or from local education authorities but depend on their endowments and fee income; the control of these schools is vested in a self-perpetuating governing body on which a representative of the Ministry of Education may in some instances be invited to sit; apart from the holders of scholarships awarded by the school, all pupils pay whatever fees may be fixed by the governing body; the age of entry to these schools is normally 13 and most of the pupils will previously have attended a fee-paying and privately owned preparatory school; the pupils in independent schools account for about 10 per cent. of the whole grammar school population; and pupils from such schools account for 18·5 per cent. of the university population.

Separate schools for boys and for girls is the predominant pattern of grammar school education; just over 30 per cent. of the local education authority schools, but less than 4 per cent. of direct grant and independent schools, are attended by both sexes. The local education authority grammar schools are almost exclusively for day pupils and the number of boarding places provided in such schools throughout the country is only about 1 per cent. The direct grant schools are also mainly for day pupils, but many of them have some boarding provision for pupils whose homes are outside the school area; all told, about 9 per cent. of the pupils at such schools are boarders. In the independent schools, on the other hand, 70 per cent. of the pupils are boarders. Transfer from one type of grammar school to another is always possible subject to a place being available, but in practice it is quite exceptional.

The frequently used term 'public school' is not current in the official documents of the Ministry of Education. It came into use in the early 18th century to describe those grammar schools of good standing, often originating in charitable foundations for poor scholars, to which well-to-do parents were beginning to secure entrance for their sons as boarders in preference to having them educated by a tutor or in a small private school. The term is now popularly used, with social as well as educational connotations, mainly in reference to the independent boarding schools for boys; but a more precise and generally agreed description, which includes most direct grant schools, defines a public school as one which is



represented on the Governing Bodies' Association or the Headmasters' Conference. There are in fact about 190 such schools and their eligibility for representation on the organizations just mentioned depends upon how free their governing bodies are from outside control, on the proportion of senior pupils in the school, and on the number of their former pupils who have gone on to universities. By analogy the term 'public school' is used, though much less frequently, in reference to girls' grammar schools of comparable standing.

The statutory age below which a pupil is not permitted to leave school is 15; but the full grammar school course extends to the age of 18 or a little over. The most important stage in the education of grammar school pupils is the VIth form, which is entered at about the age of 16 and extends over two or three years. It is here that pupils can begin to develop their own special interests, learn to some extent how to work by themselves, and prepare for entry to the universities or the professions. Generally the VIth form is organized in sections with distinctive titles, e.g. classics VIth, science VIth, modern VIth, according to the main emphasis on a particular field of study. Some form of daily religious observance is a feature of all grammar schools and some schools of all three categories are particularly associated with the Anglican, Methodist or Roman Catholic denominations. In day schools the activities of the day begin with a brief service of morning prayers conducted by the headmaster or headmistress in the school assembly hall; schools which provide for an appreciable number of boarders have their own chapel, sometimes a building of great beauty, where services are conducted by a chaplain who is generally a full member of the staff of the school.

Public education in Scotland, exclusive of the universities, is administered centrally by a government department, the Scottish Education Department, and locally by 35 education authorities. Many of the grammar schools in Scotland, though now often assisted from public funds, are old foundations endowed by benefactors by whose names they are still known (e.g. George Watson's College in Edinburgh); the newer ones, officially designated as senior secondary schools, have been established by the local authorities. Few of the older Scottish schools have developed a boarding side to any considerable extent. Some dozen or so schools (including several wholly for boarders and outside the official system) are represented on the Headmasters' Conference and are included in the list of public schools. Apart from the older grammar schools in the large cities, most schools are co-educational.

In Northern Ireland school education is administered by the Ministry of Education for Northern Ireland and by local education authorities. An important feature of the educational system is the number of schools which are managed by religious denominations though generously assisted from public funds.

**ADMISSION.** In Appendix II a comprehensive

and detailed account of university requirements for entry to first degree courses will be found; but something may here be said about the broad outlines. To qualify for admission to a university in order to read for a degree, a prospective student must have passed an examination or examinations which satisfy the minimum academic requirements for matriculation. At Cambridge a specific matriculation examination known as the 'previous examination' can be taken; at Oxford the corresponding examination, known as 'responsions', was held for the last time in 1960. Except for the Queen's University of Belfast, the other universities do not hold a separate matriculation examination of their own, but rely entirely upon the results of examinations conducted in England and Wales by nine examining bodies approved by the Ministry of Education for the General Certificate of Education (G.C.E.). In Scotland the Scottish Education Department awards a Scottish Leaving Certificate and in Northern Ireland the Ministry of Education awards a Senior Certificate; both of these are recognized by all universities as providing evidence which can be used for purposes of matriculation. In the case of the special matriculation examinations, the only question at issue is whether or not the candidate passes; if he does so, he thereby fulfils the minimum entrance requirements of the university concerned. But the General Certificate of Education, the Scottish Leaving Certificate and the Senior Certificate of Northern Ireland are intended to serve a variety of purposes, of which qualification for university entrance is only one; and it is only under specified conditions that these certificates are accepted by universities. Thus, the subjects for the General Certificate of Education are examined at three levels of attainment: the ordinary level, which is taken at about the age of 15 or 16, and the advanced and scholarship levels, which are taken two or three years later; and in general the minimum entrance requirements for universities when based on the General Certificate of Education involve the passing of five or six subjects selected from a prescribed list, two at least of which must be passed at the advanced or scholarship level. Similarly there are special conditions under which the Scottish Leaving Certificate and the Senior Certificate of Northern Ireland are accepted for university entrance.

Although the minimum entrance requirements of all universities are very much the same in principle, there are many differences in detail as between universities. The Scottish Universities Entrance Board, however, defines requirements which are common to the four universities in Scotland and the Northern Universities Joint Matriculation Board (which is also an approved examining body) defines those which are common to Manchester, Liverpool, Leeds, Sheffield and Birmingham. A partially successful attempt was made in 1948 to ensure interavailability of minimum entrance requirements; but it cannot now be assumed that the requirements laid down by one university will necessarily be accepted at

other universities. While it is still true to say that in many cases it will be found that the passing of examinations which satisfy the minimum of one university will also satisfy most other universities, it is always wise to enquire directly from the particular university concerned whether its own minimum entrance requirements have in fact been satisfied.

The satisfying of minimum entrance requirements does not for any university carry with it the right of entry; it is a general academic prerequisite and no more. Whether a person who has satisfied these minimum requirements will be admitted depends upon a number of factors. In the first place some faculties and departments require that particular subjects shall have been included in the qualifying examinations and often that they shall have been passed at the advanced level, e.g. mathematics at the advanced level is required generally for degrees in science and engineering and Latin at the ordinary level is widely, though not universally, required for an arts degree; and these particular faculty or departmental requirements can only be ascertained with certainty by consulting the calendars and prospectuses of the individual universities. Secondly, a bare pass even at the advanced level may not be thought to justify admission if the subject concerned is intended to be one of the candidate's main fields of study; the achievement in the qualifying examination must show promise of success in the university course. Thirdly, even though a student may have satisfied the general university and the particular faculty and departmental requirements, and have reached a respectable standard in the crucial subjects, the limited number of places available may introduce an element of competition between candidates; and special entrance examinations of a high standard are held by the majority of Oxford and Cambridge colleges and a few London ones to enable a selection to be made from amongst the applicants. Furthermore, consideration is always given to confidential reports from heads of schools; and personal interviews are very frequently arranged before a final decision is taken about admission.

For certain courses of study for a first diploma or certificate in some universities it is not necessary to have satisfied the same kind of academic requirement as is demanded for courses leading to a first degree; this is particularly so in the case of those courses in subjects such as social science which are intended to be taken by rather older persons whose formal education has not followed the normal pattern or whose personal experience gives them special claims for admission.

To be accepted for postgraduate study and research leading to a higher degree, a candidate must in general possess a first degree which is relevant to his proposed field of study, though that degree need not in most cases have been taken in the same university. Whether an applicant is admitted to postgraduate study and research is a matter which in the first instance is within the control of the head of department concerned, but

registration as a candidate for a higher degree has to be approved by the faculty or a special board of the university. The number of qualified applicants who can be accepted depends in departments of pure and applied science upon the accommodation available in research laboratories and in all departments on the number of members of staff who are free to supervise research.

Overseas students who wish to read for a first degree or a first diploma must submit evidence of academic attainments comparable to those demanded of British students and satisfy the university that their knowledge of English is adequate for the purposes of the course they wish to pursue; any documents they submit should be properly attested by a responsible educational authority in their own country. In the case of some countries, it is also advisable that applications should be submitted through the official representative in the United Kingdom of the country concerned. Each application is judged on its individual merits, but the number of vacancies is limited and, in general, overseas students are recommended wherever possible to take their first degree in their own country. Those who wish to pursue a course leading to a higher degree or diploma must submit evidence of their attainments to the satisfaction of the head of the department concerned and of the university.

**STRUCTURE OF DEGREE AND DIPLOMA COURSES.** In the interests of clarity it is essential to refer to the degrees awarded by United Kingdom universities as being either first degrees or higher degrees. In the actual nomenclature of degrees there is a very confusing diversity: for example, BA and BSc are the titles of first degrees in arts and science respectively in most universities, but at Oxford and Cambridge the BA is awarded to students of both arts and science; in Scotland the first arts degree is called MA; at Oxford the BSc is a higher degree; but at Cambridge the title BSc is not used at all; and at Oxford and Cambridge the MA is granted without any further course of study or examination to any BA of the university after a specified number of years and on payment of a fee. The courses of study for a first degree demand full-time attendance at the university except in the case of evening students at Birkbeck College of the University of London and candidates for the external degrees of London. The period of study for a first degree in arts and science is a minimum of three years and may be four; in other faculties and for some professional courses, such as architecture in the faculty of arts, the period is generally longer and in the case of medicine and dentistry may be as much as six years. Exemption from first-year lectures and examinations is sometimes available on the basis of passes at the advanced level of the General Certificate of Education; but no first degree is awarded until the completion of three years of university study. It is only very exceptionally that a student transfers from one university to another during his course of study for a first degree; the credit allowed for courses previously

taken depends upon the regulations of the university to which he transfers and upon the individual case; and in no circumstances, not even if he already has a first degree of another university, can he graduate without at least two years' full-time attendance at the university to which he goes.

In the faculties of arts and science the curricula and the first degrees awarded are of two main kinds: those which involve the study of a number of subjects not all of which need be pursued for the whole three years and in none of which is very highly specialized work required; and those which concentrate on a single field of study and its immediate ancillaries. The first of these types of degree is designated as *pass* or *ordinary*, and success depends upon the passing of the various subjects separately at the appropriate standards; failure in a subject can be retrieved by re-examination or by the substitution of another approved subject. The second type is called *honours* and is further particularized by mention of the field of specialization, e.g. honours in classics, history, natural science, physics, etc.; success depends upon the candidate's performance in a comprehensive final examination (known at Oxford as 'schools' and at Cambridge as the 'tripsos') which can be attempted on only one occasion; successful candidates are normally awarded their degree as class I, II or III, the second class often being divided into two sections; the unsuccessful are either awarded a pass degree or allowed some credit towards the requirements for such a degree. In some universities the two types of degree are known as *general* and *special* respectively, and it is there possible for distinction or honours to be awarded for exceptional merit in the examination for the general degree. Since the curricula for the two kinds of degree in arts or science diverge considerably, it is usual for a student to be admitted to an honours or special course immediately on entry to the university or possibly at the end of his first year. In other faculties the courses of study for the ordinary and honours degrees are not so distinctive in the earlier years at least, and in some instances, e.g. medicine, there is indeed a common final examination on the results of which a candidate of unusual merit may be awarded his degree with honours.

The courses for first diplomas and certificates are relatively simple in structure. Usually there is a closely defined curriculum covering one or two years which is followed by all candidates for a given award, though exemptions may be granted from particular parts of the course on the basis of previous attainments or experience. Most courses demand full-time attendance but some, e.g. in public administration, are part-time and extend over a longer period.

Higher degrees can be divided into three categories: masterships, the doctorate in philosophy (PhD or DPhil), and the senior doctorates. Candidates for a master's degree (e.g. MA, MSc, etc., with which should be classed the BPhil and BLitt of some universities) are normally required to

possess a first degree, though it need not have been gained in the same university. Work for the degree most generally involves full-time attendance at the university for two years; it may involve the taking of special courses of study and seminars; it almost always involves the writing under supervision of a thesis or dissertation on some particular topic within the student's special field of interest; a written examination is sometimes required in lieu of or in addition to a dissertation; and an oral examination is rarely dispensed with. It is possible, however, in many universities for a mastership to be awarded on the basis of a thesis to a person who has taken a first degree at that university (but not elsewhere) without further full-time attendance. The degree of PhD, which is common to all faculties and for which a first degree (or an approved equivalent, e.g. a diploma in technology awarded by the National Council for Technological Awards) is a prerequisite, is awarded after two or, more frequently, three years' full-time work within the university; though attendance at seminars may be required, the main test is the writing of a thesis which makes an original contribution to knowledge, an oral examination is very commonly required. In many universities members of the teaching staff are eligible for the degree of PhD under special conditions. The senior doctorates, which are designated on a faculty basis (e.g. DLitt, DSc, MD, etc.) and for which the possession of at least a master's degree is a normal prerequisite, are awarded to more mature and established workers on the basis of published contributions to knowledge.

Higher diplomas, e.g. in various branches of technology, in public health, etc., may be awarded, according to the subject and the university, either on a full-time or less frequently on a part-time basis. The possession of a first degree or first diploma is the normal prerequisite; attendance at formal courses of instruction with the passing of a written examination is the basis of the award, and a dissertation is not required. A certificate or diploma in education is awarded after one year of full-time study to graduates who are training to become teachers.

Except at Oxford and Cambridge where the examining is mainly done by panels of teachers drawn from the various colleges, one or more external examiners for each subject are appointed from the staffs of other universities to take part in the assessment of the work of candidates for a first degree or first diploma. This system helps to ensure a uniformity of standards throughout the universities. For all higher degrees a small panel of two or three persons, one at least of whom is from another university, is appointed to adjudicate on the dissertation or published work and, when necessary, to conduct an oral examination. For the PhD degree an oral examination is often required by regulations; for the DLitt, DSc and comparable degrees such an examination is very seldom held.

STAFF. The normal grades of the teaching staff are: professor, reader, senior lecturer, lecturer,

assistant lecturer and demonstrator. In most university departments there is only one professor who is responsible for the organization of the instruction given in his subject and, where laboratories are involved, for the requisitioning and proper use of materials and equipment. In some of the pure and applied sciences the various branches are organized as separate departments, e.g. physical chemistry alongside of organic chemistry. When there are two or more professors in a single department, one of them is either permanently or for a period in administrative charge. The titles 'associate professor' and 'assistant professor' have never had any wide currency in the United Kingdom and are now very exceptional. Until the end of the second world war, the title of reader was mostly conferred on persons in charge of a subject or branch of a subject for which a professorship and separate department were not yet provided or alternatively on persons who had quite unusual distinction in a particular field of work; and in status the reader had precedence of a senior lecturer. Since 1945, however, in some universities the title of reader is awarded more readily than formerly in recognition of merit in research and the distinction between the two grades in status and salary is becoming less significant. At present the number of readerships and senior lectureships combined is restricted, in accordance with an understanding reached with the University Grants Committee, to about 22 per cent. of the total full-time non-professorial teaching staff. Lectureships represent the career grade in university teaching and the maximum salary (now £1850) is reached at about age 40-45; but a lecturer has a reasonable prospect of securing promotion to a higher post in his own or another university. The post of assistant lecturer is usually held on an annual basis for three years and is regarded as being either temporary, and so not renewable after three years, or probationary, in which case promotion to a lectureship follows. Demonstratorships in most universities are temporary posts normally held for only one or two years. Most of the teaching work of the universities is done by full-time members of staff, of whom in 1958-59 there were in England, Scotland and Wales 1505 professors, 824 readers, 1247 senior lecturers, 5253 lecturers, 1249 assistant lecturers and demonstrators and 1047 in other subsidiary categories; these figures, however, exclude 719 lecturers, assistant lecturers and demonstrators at Cambridge, and 390 at Oxford, who combine university with college work; they also exclude those college tutors who hold no university appointment. In some special departments and faculties, notably in medicine, an appreciable amount of instruction is given by part-time members of staff. It is impossible, therefore, to give precise figures for staff-student ratios, but, taking full-time staff alone, the proportion varies from 1 : 7.5 to 1 : 10.5 according to the special circumstances of an individual university or faculty.

At Oxford and Cambridge the traditional

method of undergraduate instruction is the tutorial, a device which demands a high ratio of staff to students and imposes a heavy burden on the teacher. Every junior member of a college is placed by the college in the care of a senior member of the university who guides his studies, suggests to him what books he should read, what lectures if any he should attend, sets him essays and other written work, and week by week discusses with him, either individually or in small groups, what he has read and the work he has written. At the end of a term or vacation a more rigorous but still informal probing by the college may take place into a student's progress. Both the university and the colleges provide an abundance of formal lectures open to all members of the university, but attendance at them is not made compulsory by any regulation. In the case of science subjects involving experimental work in laboratories the instruction is inevitably more formalized than in the humanities.

In the other universities in general the basis of undergraduate instruction is the formal lecture, reasonable attendance at which is compulsory; in some of the more popular subjects in the larger universities a class of a hundred or more is not abnormal. The amount of written work which can be demanded from the students and dealt with by the staff differs greatly from subject to subject. The virtues of a more intimate form of instruction have, however, long been recognized, and wherever the ratio of staff to students permits, small tutorial groups to supplement or replace formal lectures have become a normal part of the programme of instruction. Written 'terminal' examinations are usually conducted by the departments at least once within the session and there is normally a statutory university examination in some part of the student's curriculum at the end of each session.

Candidates for postgraduate degrees involving research are in all universities assigned to the care of a supervisor who helps in the selection of a topic within the candidate's chosen field and places his experience as an original investigator at the disposal of the student. The departmental seminar for the reading and discussion of papers written by the students and for surveys of current progress in the subject is often an important part of the postgraduate training.

It is frequently stated that about a third of a university teacher's time is or should be available for his own researches. During term the pressure of teaching duties and, in the case of the more senior members of the staff, of administrative and committee work, often make it difficult to achieve anything like this standard, and investigations which demand continuous application have often to be reserved for vacations. Conditions differ, however, very greatly not only from university to university but from one department to another. In this connexion it may be noted that there is no established practice of granting sabbatical leave; but members of staff are fairly frequently released for a term or their teaching load is reduced in

order to enable them to finish a particular piece of original work or widen their experience.

The salaries of the academic staffs of universities are based on scales or ranges approved for purposes of grant by the Treasury after consideration of recommendations of the University Grants Committee to whom representations are made from time to time by the universities and the Association of University Teachers. At present in faculties other than medicine a professorial salary is within the range of £2600 to £3600, that of readers and senior lecturers may have a maximum of £2425 or in special circumstances £2525, that of a lecturer rises from £1050 by annual increments of £50 and later of £75 to £1850, and that of an assistant lecturer rises from £800 by £50 annually to £950. For posts in London an additional allowance of between £60 and £100 is paid, according to grade. The salaries of clinical professors rise to £3900. The salaries of medically qualified non-professorial teachers in the faculties of medicine are higher than those in other faculties and there is a uniform annual increment of £100.

Superannuation for members of the academic and senior administrative staffs of all United Kingdom universities has, since 1919, been dealt with under the Federated Superannuation System for Universities (F.S.S.U.). The institution contributes a sum equivalent to 10 per cent. of the member's salary, the member himself contributing 5 per cent. The combined sums are paid as premiums on insurance policies of various types (endowment assurances, deferred annuities, etc.). To meet his individual requirements, the member has the choice between a number of policies issued by an approved list of insurance companies. If he moves to another institution within the scheme he takes his accrued rights with him. The policies mature in the member's 60th year and the capital and further contributions then accumulate interest until the actual date of retirement (normally at 65 in most universities in England and Wales, but at 67 in Oxford, Cambridge, Liverpool, London and Manchester and, for professors, at 70 in the Scottish universities). The capital available on retirement is normally used for the purchase of an annuity of a kind appropriate to the circumstances of the member, though it is within the discretion of the institution to agree to other arrangements. It is inherent in the scheme that the amount of the annuity is directly related to the totality of a member's emoluments during his whole career as a university teacher, and bears no necessary relationship to his salary at retirement. To alleviate the hardships which arise under F.S.S.U. in a period when costs of living have been rising, the Treasury approved some years ago a scheme for a modest supplementation of F.S.S.U. annuities. In 1960 a new scheme was introduced whereby the supplementation is directly related to years of service and to the average salary received during the three years immediately preceding retirement.

When a person joins a university staff from some other service, any cash he is able to withdraw from another pension scheme may be accepted as a single premium under the F.S.S.U. towards an eventual annuity.

No generally applicable statement can be made about the method of filling vacant academic posts in universities. In the case of professorships at Oxford and Cambridge there is usually a formal announcement that a chair is vacant, and persons interested are invited to forward their names to the vice-chancellor for consideration by a duly constituted board of electors who need not confine their attention to the names submitted and whose decision is final. Elsewhere the particular circumstances determine whether a chair shall be advertised or filled on the basis of private enquiries, and a mainly or wholly academic *ad hoc* committee, variously constituted in different universities, makes a recommendation to be confirmed by the appropriate higher bodies. A small number of chairs (mostly in the older subjects) at Oxford and Cambridge and in the Scottish universities, known as regius professorships, are within the patronage of the crown, but it is believed that academic advice is normally sought before appointments are made to them. In all universities many chairs are specially associated with the names of benefactors, etc. (e.g. the Wykeham professorship of logic at Oxford). Many posts as reader, senior lecturer and lecturer are filled by promotion from within the university, but a considerable number are publicly advertised and appointments are made on the recommendation of a committee of the faculty concerned. The majority of posts as assistant lecturer are advertised. When an important post is advertised many universities take steps to ensure that the announcement is made not only at home but overseas. In no U.K. university is there any restriction as regards nationality, religious belief or political opinion to debar candidates from appointment. The overwhelming majority of university teachers have in fact taken their first or a higher degree in a U.K. university; but apart from Oxford and Cambridge, each university has on its staff a substantial number, and generally an appreciable majority, of teachers who have graduated at some other university in the U.K.

**STUDENTS.** In 1958-59\* there were 100,204 full-time students in the universities of the United Kingdom (apart from Belfast); of these 80,805 were reading for a first degree and 3928 for a first diploma; 14,839 were engaged in research or other advanced work (including 3185 who were taking the postgraduate course for a teacher's diploma); and 632 were attending courses not leading to a degree or diploma. Of these full-time students, 6084 came from overseas Commonwealth countries and 4116 from foreign countries. The

\* The latest detailed figures published by the University Grants Committee in their official *Returns* relate to 1958-59, see also 'The Year' section of each university entry below.

number of men students was 75,879 and of women 24,325. The over-all percentage of those in arts faculties was 43, in science and technology 38.4, in medicine and dentistry 15.3; but for the students engaged in research and advanced work (apart from teachers in training) the percentages were 35.4, 53.1 and 8.1 respectively.

The number of part-time students in 1958-59 was 15,879 of whom 2577 (mostly evening students) were reading for a first degree or first diploma, 5468 were engaged in research or advanced work and 7834 were 'occasional' students taking intra-mural courses (including 'refresher' courses) not leading to a degree. Of the part-time students 2270 came from overseas Commonwealth countries and 1944 from foreign countries. Of the 5468 part-time advanced students 46.1 per cent. were in medicine and dentistry, 39.3 per cent. in arts and 13.7 per cent. in science and technology.

The number of full-time students residing in colleges or halls of residence in 1958-59 was 26.6 per cent. of the total, in lodgings 49.6 per cent. and at home 23.8 per cent.; of the men 22.5 per cent. were in colleges or halls, 53.3 per cent. in lodgings and 24.2 per cent. at home; the percentages for women were 39.1 in colleges and halls, 38.2 in lodgings and 22.7 at home. These figures, however, need further interpretation. At Oxford and Cambridge (where the number of home students is quite insignificant) all lodgings used by students who cannot be accommodated within their college are approved by the authorities, and students who live in them dine regularly in their college, participate fully in the life of the college and are under the academic supervision of the college. At Oxford 49.7 per cent. live in college and 50.3 outside; at Cambridge the percentages are 54.3 and 45.7. Apart from Oxford and Cambridge (and Durham) the provision which universities themselves make for the accommodation of their students is by way of halls of residence which are in the charge of a resident warden appointed by the university; the warden is in most cases a full-time or part-time member of the academic staff of the university and is assisted in hall by a small number of resident tutors drawn from the staff. The students who live in hall take their main meals there, use the common-room and library facilities provided and enjoy the full benefits of a corporate life in a homogeneous community with an ethos of its own. There are two major respects, however, in which halls differ from the colleges of the older universities: the warden and tutors are not concerned as such with the academic work of the students, and though they take a keen interest in their personal welfare they do not supervise their studies; and when a student ceases to reside in hall he has no continuing rights or obligations, and, except in the most favourable circumstances, his connexion with it ceases, even though he may still be a student within the university. The provision of halls varies very greatly: e.g. at Durham 64 per cent. of all the students are in halls, at Reading 56.8, at Bristol 27, in Wales 25.1

(Aberystwyth 41, Cardiff 15.5), at Newcastle 20.5, in London 17.8, at Leeds, Liverpool, Manchester and Sheffield 14.5 to 17, in Scotland 12.7 (St. Andrews 40.2, Aberdeen 1.1), and at Birmingham 11.8. In a number of these universities, however, the percentage is likely to rise in the near future as new halls are completed. Outside of Oxford and Cambridge the lodgings used by women not living in hall or at home must be approved by the university; men are generally free to make their own arrangements, though lists of approved lodgings are usually available.

Social life at Oxford and Cambridge centres in the college, and within each college there are athletic, debating and other societies confined to members of the college. Almost all colleges have their own athletic grounds. There is also a great proliferation of university societies open to all members of the university who wish to join; some of them are of long standing, others exist for a brief space and are heard of no more. Apart from the athletic and boating clubs and the dramatic societies, the best known are the Union at Oxford and the Union Society at Cambridge, both of which provide for their members a good library and the usual amenities of a club, but which are even more famous for their debates at which many who later achieved eminence in public life have first made their quality known. In most other universities there is a guild of undergraduates or students' representative council, the establishment of which is prescribed by charter. The students themselves elect their own officers to conduct the affairs of the guild. The social activities of the guild are centred in a Union building, owned by the university but managed by the students themselves, in which are provided dining-rooms, cafeterias, a library for leisure reading, a hall for debates and dancing, a gymnasium, lounges and quiet rooms. Normally there is a single union for men and women; in some places student meals are provided in a refectory run by the university. Membership of the guild and the payment of the subscription to the union (at present about £6 per annum) are compulsory for full-time undergraduates. The major societies, debates and the athletic clubs are organized as part of the guild activities, and the other student societies, religious, political, literary, or departmental, hold their meetings in the union. Athletic grounds are provided by the university, but in large cities they are often some considerable distance from the union. In all universities there is an officers' training corps which is the responsibility of the army authorities and in some there is also an air squadron; membership of either of these is entirely voluntary.

Particularly since 1945 universities have developed student health services in order to ensure that a student's academic progress shall not be unnecessarily impeded through lack of medical attention; in some cases there are one or more full-time medical officers in charge of this work; the extent of compulsion imposed on students to avail themselves of these services varies, but at

least a general overhaul on admission and a chest X-ray are usually expected. Associated with the health services in almost all universities there is a voluntary or compulsory scheme of physical education for students. Care for other aspects of the personal welfare of students in non-residential universities is provided by some form of advisory service which ensures that a student who finds himself in some difficulty knows clearly to which member of the staff he may freely and confidently go for help and counsel. There is often a special adviser for overseas students. Most universities have at least one accommodation officer who has full charge of the lists of approved lodgings. There is also an appointments board with appropriate staff to help students to secure posts on graduation; the good relations established between these boards and prospective employers of all kinds are of very great benefit to all concerned.

At Oxford and Cambridge the fees payable by a student include university and college dues, tuition fees and (if he lives in college) charges for rooms and meals; some colleges are more expensive than others, and living in lodgings is not necessarily cheaper than living in college. It is scarcely possible to reside at either university for the three terms each of eight weeks for much less than £300 even on the most economical basis. In the other universities the tuition fees are around £50 per session for an arts first degree course and £60 for other faculties. Tuition fees for higher degrees average £30 per session, but £40 is charged when laboratory work is involved. In Scotland these fees are somewhat lower. The fees for first diploma courses are in general less than those for degree courses. The cost of residence in a hall for a session of thirty weeks is within the range of £140 to £160, but this sum often does not include the cost of lunches on weekdays. Reasonably good lodgings with partial board are not obtainable at much under £3:10s. per week, and in some places the minimum is above this figure. Apart from clothing, travel and personal expenditures, an overseas student would be well advised to plan on the basis that the *minimum* cost of a university session together with vacation expenses would be between £450 and £500 according to the university he attended and the course he was taking.

A considerable measure of financial assistance is now available for university students. Until the end of the first world war a poor student in England or Wales could not hope to get to a university unless he won a competitive scholarship offered by one or other of the universities, was awarded one of the few grants which his local education authority might provide, or gained a leaving scholarship from his school, if it had any to offer. The open entrance scholarships and exhibitions founded by benefactors at Oxford and Cambridge colleges were (and still are) the hallmark of brilliant promise and correspondingly difficult to win. The other universities also had a limited number of open scholarships. In Scot-

land the situation was somewhat easier because of the resources of the Carnegie Foundation, which has, as one of its objects, the helping of needy students. Between the wars, however, the Ministry of Education instituted a system of state scholarships tenable at any university, and local education authorities expanded their schemes for scholarships and grants. Since 1945 the number of state scholarships and corresponding awards in Scotland have been very greatly increased, as have the local education authority awards. The Ministry of Education now supplements the value of all university open scholarships and exhibitions to that of state scholarships, and many local education authority awards are within the same range. In 1959 the Ministry awarded about 2375 state scholarships and supplemented about 1600 open university scholarships, while local authorities awarded about 16,500 scholarships or grants for university students. There is now an hierarchy of academic merit: open award at Oxford or Cambridge, open award at other universities, state scholarship, local authority scholarship, local authority grant; but the actual financial reward which results is assessed in all cases according to the income of the family from which the student comes: to the poorer, more; to the richer, less. For a student who holds a state scholarship at Oxford or Cambridge the *maximum* maintenance allowance in addition to tuition fees is now £325, at London £280 and at other universities £255, but the rates are somewhat lower for students in lodgings and still less for those living at home; in addition, a vacation allowance of £25 or £30 per annum is paid in many cases and a higher rate is payable in special instances. The present system of awards from public funds to students is, however, under review as the result of the report (issued in May 1960) of a committee appointed by the Minister of Education in 1958.

Financial support is also available for postgraduate students. In 1958-59 the universities themselves made 1100 research awards (called postgraduate studentships or fellowships) from their general funds or special endowments, the Department of Scientific and Industrial Research 1000, and the Ministry of Education 250 (in addition to extending the tenure of a number of state scholarships). Most of these awards are of the value of £300 per annum or over, and parental income is generally not taken into account. Funds donated by various research associations and by industry in support of the academic research of individual departments in universities can often be used by agreement to finance postgraduate students.

There are two important consequences of these arrangements: first, straitened circumstances at home are no longer any serious barrier to a university education; and secondly, since the tenure of state and local education authority awards is not restricted to particular universities, students are free to go to the university of their choice if it is willing to accept them. Oxford and Cambridge can no longer be characterized as in the main the



universities for the prosperous; and the civic universities no longer draw as large a proportion of their students as formerly from their immediate area. In 1958-59 the percentage of full-time students in Great Britain who were being assisted (mostly from public funds) was 80.5; at Oxford the percentage was 79.6, at Cambridge, 78, at London, 73.8, at the other English universities 87.5, in Wales 92.4 and in Scotland 70.6. It should be emphasised, however, that the maximum maintenance allowance is not awarded to every assisted student. Exact statistics are not available; but it is known that only about one-sixth of state scholars receive the maximum and the proportion amongst holders of local authority awards is probably not in excess of one-third.

In recent years more and more students have taken paid employment during the long vacation: some, e.g. engineers, do work which has direct relevance to their studies, but some others undertake jobs which do little except exhaust them mentally and physically; some do the work to eke out their finances, some to secure the means for continental travel, some for the wider interest and experience they hope to gain thereby and some because of the sense of independence which the earning of money brings. The universities are alive to the dangers inherent in this trend, and, whenever possible, tutors seek to dissuade their students from unsuitable kinds of work and above all to restrict the number of weeks they devote to it at the expense of the reading they ought to do in connexion with their studies.

Since the length of first degree courses varies from three to six years it is not feasible to relate the proportion of students to national age groups in a really significant manner; it can be noted, however, that full-time students represent rather more than 1 in 600 of the whole population. By and large the universities at their present size are just about able to provide places for all applicants who can satisfy their standards for admission, though the competition for places is severe in a number of subjects.

**ACADEMIC YEAR.** The academic year is divided into three terms of which the first (called the Michaelmas, Martinmas or autumn term) begins, so far as students are concerned, in the first week of October, the second (the Hilary, Candlemas or Lent term) in the second week of January and the third (the Easter, Trinity, Whitsun or summer term) in the second or third week of April. At Oxford and Cambridge the required period of residence is eight weeks each term; elsewhere each term extends over nine or ten weeks. The programme of undergraduate instruction at Oxford and Cambridge continues for the full length of each term, since only a part of the student body will be sitting university examinations at any one time; elsewhere most undergraduates have examinations in the second half of the third term and formal instruction comes to an end by the beginning of June. Most honours students at Oxford who have taken their

final written examination in late May or early June have to present themselves for a *viva voce* examination in July, and it is only towards the end of that month that class lists are published; the Cambridge lists are made known about the middle of June; elsewhere examination results appear at the end of June. In all universities graduation ceremonies are held several times during each session; but except at the older universities of England the majority of degrees are conferred at large public ceremonies at the beginning of July.

**SUMMER SCHOOLS**, such as are a well-established feature of the academic year in the U.S.A., form no part of the British pattern. In a few instances and only rather sporadically special courses, e.g. in English studies for overseas students, are arranged; but whatever their content they do not count towards a United Kingdom degree or affect the number of normal terms to be kept before proceeding to such a degree. Students, however, who wish to continue their reading within the university during part of the long vacation can generally do so; and in the case of postgraduate students who need laboratory facilities arrangements are made for them to work throughout most of the summer.

**EXTRA-MURAL CLASSES AND UNIVERSITY EXTENSION.** The concept that universities had some obligation to spread the gospel of learning widely throughout the community took really practical shape in 1873 when James Stuart, fellow of Trinity College, persuaded the University of Cambridge to organize university extension courses to be delivered up and down the country by members of the university. The educational movement thus started was also fostered by Oxford and the newer university colleges, and additional momentum was gained when in 1903 Albert Mansbridge founded the Workers' Educational Association (W.E.A.). The *Final Report* of the adult education committee of the Ministry of Reconstruction published in 1919 (and recently reissued in an abridged form as *A Design for Democracy*) focused attention on the achievements up to that time and suggested many of the lines along which subsequent development has taken place.

Nearly all universities now have a department of extra-mural studies headed by a director who in a number of instances has the status of professor of adult education. The work of these departments is carried on partly by staffs of full-time tutors of whom there are over 300 in all, partly by part-time tutors (e.g. school teachers) and not least by members of other university departments. The courses, almost all of them conducted in the evenings, are arranged not only in university towns and the immediate vicinity but often in places at a considerable distance away, indeed wherever a need in adult education has to be met. Many universities have tutors resident in outlying areas, part of whose duty it is to assess and stimulate the demand for adult classes. In



many of their activities the extra-mural departments work in close collaboration with the W.E.A.

Broadly speaking, three types of course have been developed: extension courses consisting of something between 3 and 18 lectures on a particular topic given by a single lecturer or by a team of lecturers; sessional classes which, generally under the guidance of a single lecturer, have weekly meetings from the end of September to the end of March; and tutorial classes each of which is planned as a three-year course and involves not only lectures but discussions and written work. In the 1958-59 session almost 2800 extension courses and 1565 sessional classes were organized and 850 tutorial classes were in being; in all, nearly 100,000 students were enrolled. The fees charged to students are merely nominal. The courses most frequently given are in history, international affairs, government, social studies, philosophy, psychology, religion, musical history and appreciation, literature, the fine arts, and the physical and biological sciences. In recent years the departments have also organized 'refresher' courses for qualified scientists to help them to keep abreast of the newer advances.

It has hitherto been the policy of extra-mural departments and of the W.E.A. not to cater for vocational and professional qualifications or to duplicate the work of the evening classes provided by local education authorities; consequently, although written work is encouraged in the longer courses, only in a small minority of instances is any examination offered at the end of a course or any certificate awarded. There is no restriction on the membership of a course or any academic prerequisite: the sole requirement is a genuine interest in serious study; it is therefore not unusual to find the policeman, the housewife, the shop-assistant, the manual worker and the bank manager sitting side by side at an extra-mural class. A small number of scholarships are available, some of them provided by the Ministry of Education, to enable students who wish to carry their studies further to go on to universities. Mention should also be made here of the dozen or so residential adult education colleges up and down the country which provide full-time courses of a fortnight up to a few months' duration; with some of these colleges the extra-mural departments have a close though generally informal link.

The finances of the extra-mural work of the universities are somewhat complicated by the fact that some of the courses given qualify for a direct grant from the Ministry of Education or are assisted by local education authorities, but the proportion of the cost covered by the grants varies from case to case. When allowance is made, however, for such contributions it is estimated that the net cost met from general university funds is of the order of £250,000 to £300,000 per annum.

The *Universities Council for Adult Education* (hon. secretary and treasurer, W. E. Salt, OBE, MA BCom, department of adult education, University of Bristol, Bristol, 8) on which all univer-

sities are represented, publishes a brief *Annual Report* containing figures relating to the activities of extra-mural departments. The *National Institute of Adult Education (England and Wales)* has headquarters at 35 Queen Anne Street, London, W.1 (secretary, E. M. Hutchinson, MA; tel.: Langham 3155). It is an independent consultative body which has a council representing universities, local education authorities and voluntary agencies. It convenes an annual conference and publishes quarterly *Adult Education* (annual subscription, 10s. 6d.).

**INSTITUTES OF EDUCATION.** Since 1947 and arising out of the report of the McNair committee on *Teachers and Youth Leaders* (1944) most universities in England and Wales have established an institute of education to promote co-operation between the university, teacher training colleges, local education authorities and other educational agencies within the university area. The institute acts as an area training organization for the training of teachers on behalf of the Ministry of Education, conducts examinations recognized by the ministry for the teachers' professional qualification, arranges refresher and other courses, and fosters educational research. The director of the institute is a full-time university officer and often has the title and status of a professor. The committee of management of the institute includes representatives of the university, the training colleges, local authorities and practising teachers. The institute, however, has no responsibility for the control, financial or otherwise, of the individual colleges, which are maintained in the majority of cases by the local education authorities, though many are the responsibility of religious denominations. Throughout the country there are about 120 colleges, with a total of 26,600 students, which give a general course extending over two years. From 1960 the course of study in these colleges will be increased to three years; and a programme of building has been approved for a considerable increase in the number of places. A further 35 or so colleges, with a total of 4800 students, give more specialized three-year courses in, e.g., physical education, domestic science. The students who attend these various types of college are admitted at the age of about 18 in accordance with standards of achievement in the General Certificate of Education approved by the ministry and the institute; and they are financially assisted, on the basis of parental income, by grants from public funds. The university's department of education, which is itself a constituent member of the institute, provides a one-year course of professional training for graduates who frequently migrate to another university for this year of training; in 1958-59 there were 3185 graduates attending these one-year university courses in England and Wales.

In Scotland the work of the colleges and centres for the training of teachers is co-ordinated by provincial committees under the aegis of the Scottish Education Department. In 1957-58

there were just over 4800 students enrolled in 4 training centres and 3 training colleges for women.

In Northern Ireland about 1600 students are enrolled in 2 colleges for the training of teachers.

**INTER-UNIVERSITY ORGANIZATIONS.** The Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom is a consultative body with no executive powers. It originated in occasional meetings of the academic heads of universities convened for special purposes and did not begin to take on its present shape and functions until after the first world war, when the need for more frequent inter-university consultation became apparent. It was formally established as a standing committee of what was then the Universities Bureau of the British Empire by the governing bodies of the universities in 1931, and its present constitution was approved and adopted in 1950. Its membership is confined to the vice-chancellors of the universities in England, Wales and Northern Ireland, the principals of the Scottish universities, the principal of the University of London, the principal of the University College of North Staffordshire, and the principal of the University College of Sussex. The pro-vice-chancellor of Durham, the principal of a second Welsh university college and the registrars of Oxford and Cambridge also attend. For a particular meeting a member may appoint a deputy to attend in his place, but rarely does so. The committee meets in London every month except in August. The chairman of the committee is elected annually and usually serves for three years in succession, the chairman for 1960-61 being Sir Robert Aitken, MD DPhil LLD DSc, FRCP, vice-chancellor of the University of Birmingham. The Association of Universities of the British Commonwealth (secretary, J. F. Foster, MA LLD) provides the secretariat for the committee towards the cost of which the home universities make a special contribution, and the official address for the committee is 36 Gordon Square, London, W.C.1 (tel.: Euston 8572).

The function of the committee is simply to consider matters of common interest to universities, but it is not restricted to topics specifically referred to it. It is not empowered to commit the universities in any way and it studiously refrains even from appearing to do so; when matters arise which call for positive action or the formulation of a policy, all the committee can do or desires to do is to seek special authorization or make a recommendation which the universities individually may accept or reject. By its consultative activities, however, the committee holds an influential and central position in university affairs; for, apart from the initiative it frequently takes in making recommendations regarding a common policy on matters of purely internal concern to the universities, it is the channel through which not only the University Grants Committee but many ministries (e.g. education, health) which have contacts with the universities can ascertain the reaction of informed and responsible university opinion to pro-

posals they have in mind or to problems they would like to discuss; and it is inevitable that the views which, within its terms of reference, the committee is willing to express should carry great weight with the outside agencies which consult the committee and with the authorities of the individual universities. The committee also, at its discretion, nominates representatives, not always from within its own membership, to outside bodies with educational interests; and from time to time it enters into informal discussions with such bodies as the Association of University Teachers and the Headmasters' Conference. Since 1946 it has organized an annual Home Universities Conference, held in London in December, at which a widely representative gathering of university teachers, administrators and members of governing bodies discusses broad topics of current interest. The committee issues no report or annual statement; occasionally it sponsors special inquiries which are published, e.g. *The Planning of University Halls of Residence* (Clarendon Press, Oxford, 1948), *Report on an Inquiry into Applications for Admission to Universities* (1957). A *Report of an ad hoc Committee on Procedure for Admission of Students* was published in 1958 and further *Reports* in 1960 and 1961. These reports (except the first) are published for the committee by the A.U.B.C. as are also the verbatim reports of the proceedings of the Home Universities Conferences.

The Association of University Teachers (A.U.T.), a professional association established at the end of the first world war, has as its objects 'the advancement of university education and research, the promotion of common action among university teachers, and the safeguarding of the interests of its members'. Membership is open to all full-time teachers (including professors) and research workers in institutions of university rank in the United Kingdom; the proportion of eligible members of staff who belong to the association varies from university to university, but the total membership is such that the association has been accorded the right of making direct representations to the University Grants Committee on salary matters. The work of the association is conducted through local branches and a central council. The hon. general secretary is K. Urwin, MA DU, Laurie House, 21 Dawson Place, London, W.2 (tel.: Bayswater 9011). The interests of the association range over a wide variety of topics including university entrance requirements, selection of students, organization of curricula, student health, inter-library services, sabbatical leave, international co-operation at university level, salaries, income-tax and superannuation. From time to time it issues reports to its members on these subjects, and it publishes twice-yearly a *Universities Review* (editor, Professor C. M. MacInnes) which contains articles on university matters and information about appointments to and resignations and retirements from university posts.

The National Union of Students (N.U.S.), founded in 1922, is a body to which are affiliated the guilds of undergraduates and student representative councils in most of the universities of England, Wales and Northern Ireland; to it also belong similar student associations in certain other institutions of higher education (teachers' training colleges, technical colleges). Its purpose is to provide a focus for the expression of the corporate opinion of students on matters which they feel to be particularly their concern; its main interests are in entrance requirements, curricula, maintenance grants and fees, student health, halls of residence and other student accommodation, and international co-operation at the student level; it also arranges for student travel and for vacation work. It has a small permanent secretariat (3 Endsleigh St., London, W.C.1; tel.: Euston 2184); its affairs are managed by a council on which the affiliated guilds are represented; and it organizes an annual congress, held in a university centre, at which several hundred delegates and others discuss current student problems. In Scotland there is a separate National Union of Students.

**THE UNIVERSITIES TO-DAY.** In the 1938-39 session there were 50,250 full-time students in the universities of Great Britain; of these 44.7 per cent. were in arts faculties, 25.9 per cent. in faculties of science and technology and 29.4 per cent. in the other faculties. Immediately after the war preference in admission was given to ex-service men and women and there was a great influx of such students, some of whom were returning to resume their interrupted studies while others were enabled by generous grants to embark upon a university course which they had not previously contemplated. By 1949-50 the total number of students had consequently risen to 85,400. It had at first been thought that the great increase in numbers would be temporary and that, allowing for some 'normal' expansion, universities would eventually settle down to a total of about 70,000. In May 1946, however, a government inter-departmental committee under the chairmanship of Sir Alan Barlow published a *Report on Scientific Manpower* which called for a drastic increase in science and technology graduates together with a corresponding increase in the humanities. From that time onwards the universities have accepted the need for a considerable permanent expansion; their numbers have never fallen below 80,600 (in 1953-54); and with the assistance of Treasury non-recurrent grants they have made some appreciable progress towards the provision of new academic buildings and halls of residence, though they are not yet satisfied that the rate of building has been sufficient to keep up with the demands that face them. The balance of the faculties has changed during these post-war years: in arts there are now 41.2 per cent., in science and technology 39.6 per cent. and in the other faculties 19.2 per cent.

In October 1956 the government published a

report on *Scientific and Engineering Manpower* which emphasized once again the need from the point of view of the national welfare for a further increase in the number of university persons trained in the pure and applied sciences. The target for expansion was then fixed as 124,000 to 125,000 full-time students by the middle 1960s, and it was proposed that two-thirds of the expansion should be in science and technology. Early in 1960, after a reassessment of the probable need for university places, the University Grants Committee was authorized to discuss with the universities the practicability of providing 170,000 to 175,000 places by the early 1970s as a minimum first instalment; and plans for expansion on this scale are under urgent consideration. This could mean that by 1970 in arts there would be about 35 per cent., in pure and applied science 52 per cent. and in the other faculties 13 per cent. In other words, science and technology would then occupy the predominant position which arts had in 1938-39; but the humanities themselves would nevertheless be stronger in absolute numbers than the pure and applied sciences are at the present time. Nevertheless the prospect is one which causes some anxiety in many university circles, and much thought is being given to the problem of ensuring that, whatever faculty a student enters, his education at the university shall be as broadly based as possible. In this connexion considerable attention is being paid to the relation between studies in the VIth form at schools and the university curriculum.

The future supply of students who can meet the standards set by the universities for admission will be affected by two important factors. In the early 1960s the effects of the war-time increase in the birth-rate will be felt at the university age; for every 100 people aged 18 in 1957 there will be 144 in 1964. And since 1956 the annual number of births has again shown a marked upward trend. The other factor is that in recent years there has been an annual increase of 5 per cent. in the number of grammar school pupils who stay on to complete the VIth form course and so qualify for university entrance. The cumulative effect of these two factors is likely to be such that the problem of the universities will not be the supply of applicants but the selection of those best fitted to enter. This question of selection procedures is one which has engaged the attention of the universities continuously since 1945 and is still a perennial topic of discussion and investigation. What is beyond doubt is that the development programmes of the universities as regards both academic buildings and halls of residence are urgent; and even the increased provision for capital expenditure recently announced for 1960-1963 will do no more than meet the cost of top-level priorities. It is anticipated also that there will be real difficulty in recruiting a sufficient number of properly qualified staff, especially in the sciences, in the face of competition from industry and government departments; yet the universities must have the teachers to enable them

to cope with the increased numbers from whom eventually an enhanced supply of university teachers may be expected.

Finally a word may be said about the distribution amongst the universities of the forthcoming expansion. A simple uniform percentage increase is scarcely feasible. Oxford already has 3676 and Cambridge 2913 more students than they had in 1938-39, and it is realized that any further large increase would either wreck the collegiate system or involve the foundation of new colleges. In 1958 proposals were approved at Oxford for the establishment of a new college as a development of the existing St. Catherine's Society and at Cambridge for a new foundation to be called Churchill College. Each of these will provide for about 400 students and each will cost between £2,000,000 and £3,000,000 to build and endow. An effective solution of the general problem of university expansion, however, cannot be found on as high a cost basis as £5000 per student place. On the other hand, there are 10 institutions including constituent colleges of federal universities (apart from London) whose present student population lies between 1000 and 1600; but even if these were willing to double their capacity within the next few years and given the resources to do so, there would still be a prospective deficiency of the order of 50,000 places. The immediate burden of meeting the growing demand is therefore likely to fall on those institutions which now have between 2000 and 4500 students. Developments along these lines have been agreed by the universities and the University Grants Committee, and their implementation now depends on the provision by the Treasury of funds for the building of laboratories, classrooms, libraries, halls of residence and student amenities.

A more fundamental alleviation of the problem will have to be found in the foundation of new university colleges analogous to the new University College of Sussex at Brighton. The granting of a charter to a new institution of university rank is a matter for the royal prerogative. The financing of such an institution, however, would in modern conditions fall mainly on the Treasury, which would wish to satisfy itself about the proposed location, the availability of a suitable site and the measure of local enthusiasm and support on which the institution could rely. The University Grants Committee has therefore set up its own sub-committee on new university colleges and in March 1960 recommended to the Treasury that steps should be taken to establish new university institutions in Norwich and York. In both cases academic planning boards, consisting of eight or so persons most of whom are eminent in education, have already been appointed to be responsible for the preliminaries necessary for the effective inauguration of the institutions. Formal applications are also being considered from Gloucester, Cheltenham, Warwickshire, Essex and Kent; and similar applications are expected to be made by other localities in England and Scotland. In general the policy is that new institu-

tions should be multi-faculty and should from the start have the power, under proper safeguards for academic standards, to grant both first and advanced degrees.

**OTHER PROVISION FOR HIGHER EDUCATION.** An entirely false impression would be formed if it were thought that higher education in the United Kingdom is confined to the provision made in universities; indeed an appreciable amount of work which is elsewhere done within universities is here done in other institutions. In England and Wales alone, in addition to students in universities and in teacher training colleges associated with university institutes of education (*see above*), there were in 1959, of the age of 18 or over, 43,000 full-time, 224,000 part-time day students and 532,000 evening students taking courses in colleges of technology, technical colleges and other recognized vocational institutions (*e.g.* colleges of art, of agriculture, of commerce). When these figures are compared with the 15,000 or so full-time students of technology in universities, the importance of this other provision in the educational system of the country will be realized. Apart from the Manchester College of Science and Technology, which is partly financed through the University Grants Committee, there are 6 specialized 'national colleges' (*e.g.* for horology, rubber technology), 8 institutions designated as 'colleges of advanced technology' and 22 regional colleges of technology; in addition there are over 500 other recognized establishments of higher education which vary considerably in size and importance. All, however, are maintained or aided from the public funds administered by the Ministry of Education and local education authorities. In order to improve and expand the provision for technical education, especially where advanced work is or could be done, the government embarked in 1956 on a five-year building plan (including some provision for hostel accommodation) which will cost £70,000,000. In Scotland and in Northern Ireland also, comparable provision is made for higher education in institutions other than universities.

Though there are in general no formal academic prerequisites for entry to technical colleges corresponding to the minimum university entrance requirements, many full-time students with suitable attainments are assisted financially, the Ministry of Education having increased in 1958 the number of their technical state scholarships to 254 and the local education authorities the number of their awards to 12,000. Of the part-time day students over the age of 18 about 80 per cent. are released by their employers to attend vocational and other courses for one or more days each week. Most of the senior and advanced courses prepare students in a wide range of subjects for the examinations of the City and Guilds of London Institute or the regional Examining Unions, or for an Ordinary or Higher National Certificate. In a minority of instances students present themselves for an external degree of the University of London.

In 1956 there was also established on a national basis a diploma in technology (DipTech) which is intended to represent a level of achievement comparable to an honours degree in a university; and universities in general have agreed to regard the holder of the diploma as being *prima facie* qualified to enter on a course leading to a higher degree in pure or applied science.

In Scotland, corresponding broadly to the colleges of technology and similar institutions south of the border, there are 16 institutions (including the Glasgow Royal College of Science and Technology, which is on the University Grants Committee's list) which arrange advanced or specialized courses and about 75 other further education centres. In all, some 12,000 full-time students over the age of 18 are enrolled, together with about 35,000 part-time day students and 212,000 evening students.

In Northern Ireland nearly 3500 full-time, more than 6000 part-time day students and more than 35,000 evening students are enrolled at 165 centres of technical instruction.

FURTHER INFORMATION (see also Appendix V and the 'Publications' section in each university entry below). The following select list of official and other publications may be consulted for further information on the topics dealt with above.

#### University Grants Committee:

*University Development from 1935 to 1947* (H.M.S.O., 1948).

*University Development: Report on the Years 1947 to 1952* (H.M.S.O., 1953; cmd. 8875).

*University Development, 1952-1957* (H.M.S.O., 1958; cmd. 534).

*Returns from Universities and University Colleges in receipt of Treasury Grant: Academic Year 1958-59* (H.M.S.O., 1960;

cmd. 1166); earlier annual reports are also available.

#### Ministry of Education:

*Education in 1959, being the Report of the Ministry of Education and the Statistics of Public Education for England and Wales* (H.M.S.O., 1960; cmd. 1088).

#### Scottish Education Department:

*Education in Scotland in 1959: a Report of the Secretary of State for Scotland* (H.M.S.O., 1960; cmd. 1018).

*Public Education in Scotland* (H.M.S.O., 1958).

*Report of the Ministry of Education (N.I.)*, 1958-1959.

*The Universities of Europe in the Middle Ages*, by H. Rashdall (3 vols., ed. F. M. Powicke and A. B. Emden; Oxford U.P., 1936).

*Universities in Britain*, by Sir James Duff (for the British Council: Longmans, Green & Co., London, 1959).

*Higher Education in the United Kingdom: a Handbook for Students from Overseas* (for the British Council and the Association of Universities of the British Commonwealth: Longmans, Green & Co., London, 1960).

*Civic Universities*, by W. H. G. Armytage (Ernest Benn, London, 1955).

*Red Brick University*, by Bruce Truscot (Pelican Books, 1951).

*Universities, American, English, German*, by A. Flexner (Oxford U.P., 1930).

*University Extension*, by W. H. Draper (Cambridge U.P., 1923).

*The English Universities and Adult Education*, by S. G. Raybould (London, 1952).

*History of University Reform*, by A. J. Tillyard (Cambridge U.P., 1913).

INTER-UNIVERSITY COUNCIL FOR HIGHER EDUCATION OVERSEAS, 29 Woburn Square, London, W.C.1 (tel.: Museum 8916). *Chairman*—Sir Charles Morris, MA LL.D. *Secretary*—I. C. M. Maxwell, MA. The Inter-University Council was constituted in 1946, at the invitation of the secretary of state for the colonies, by the universities of the United Kingdom and colonial institutions of full university status. Its terms of reference are those recommended by the Asquith commission on higher education in the colonies. The general purpose of the council is threefold:

- to strengthen co-operation between the universities of the United Kingdom and the universities already existing in colonial territories;
- to assist in the development of university colleges in the colonies with a view to the attainment of full university status;
- to assist generally by giving advice and by taking other action to promote university education and research in the colonies.

In 1954 the responsibilities of the council were extended at the request of the secretary of state for Commonwealth relations to include university education in the Federation of Rhodesia and Nyasaland. More recently countries such as Ghana and Nigeria have achieved independence within the Commonwealth but the relationship between the university institutions in those territories and the Inter-University Council remains close.

The council consists of one representative of each of the universities, together with co-opted members and the educational adviser to the secretary of state for the colonies, Sir Christopher Cox.

COLONIAL UNIVERSITY GRANTS ADVISORY COMMITTEE, 29 Woburn Square, London, W.C.1 (tel.: Museum 8916). *Chairman*—Sir Hector Hetherington, KBE, MA LL.D. *Secretary*—I. C. M. Maxwell, MA. The committee was constituted in 1946 by the secretary of state in accordance with a recommendation

of the commission on higher education in the colonies. It is charged with the duty of advising the secretary of state on expenditure of United Kingdom funds on the development of higher

education in the colonies. The committee works in close co-operation with the Inter-University Council, upon which it relies for advice on the academic aspects of proposals under consideration.

## DIRECTORY TO SUBJECTS OF STUDY\*

**FIRST DEGREES.** *All universities* award first degrees with honours, or special degrees, in the following subjects: botany, chemistry, classics (Greek and Latin), economics, English, French, geography, geology, German, history, mathematics, philosophy, physics, zoology.

The Table on pages 820-823 shows which universities provide first degree courses in certain other subjects. In some cases, courses of instruction leading to degrees which, though having the title of bachelor, are in fact open only to graduates are also indicated in the table, e.g. references have been included to degrees of bachelor of education and bachelor of divinity.

The symbol ✓ means that the subject mentioned may be studied as part of the course leading to a first degree.

The symbol ✓ means that the subject forms a main part of the course leading to a first degree, and that a degree (usually—but not always—a degree with honours or a special degree) can be obtained in that subject either alone or in combination with one or two other principal subjects. The symbol ✓ has not been used for subjects taken only in a course for a general degree or a general degree with honours.

Each subject indicated in the column for the University of London may be studied at one or more schools of the university; see the special London Table on pp. 968-970. A pamphlet entitled 'General Information for Internal Students', which gives details of the schools of the university and the particular subjects which can be studied at them, may be obtained from the Academic Registrar, University of London, Senate House, Malet St., London, W.C.1.

The Table on pp. 820-823 does not purport to be anything more than a signpost to direct the reader to the 'General Information' sections of the appropriate university entries, where further particulars as to title of degree, length of course, etc., will be found.

**DIPLOMAS, CERTIFICATES, ETC.** The following lists show which universities offer diplomas, certificates, testamurs, licences, etc., in the subjects named. In some cases the qualification is awarded by a constituent college of the university mentioned and not by the university itself.

The title of the qualification is given in each case. It should be noted that some of these qualifications are open to graduates only. In-

formation as to whether particular qualifications are postgraduate or not and as to length of courses will be found in the 'General Information' section of the entry for each university or college.

For the convenience of the reader the qualifications have been grouped under general headings, which are not, however, necessarily identical with the names of the faculties under which the subjects fall in any particular university.

### Agriculture & Forestry

*Agricultural bacteriology* Leeds; *agricultural botany* Leeds; *agricultural chemistry* Leeds, R'dg.; *agricultural economics* Leeds, Manc., Oxon., R'dg., Glas.; *agricultural science* Camb.; *agricultural zoology* Leeds; *agriculture* Camb., Leeds, R'dg., Wales; *dairying* Nott., Wales; *dairy science* Nott.; *estate management* Camb.; *farm management* Leeds; *forestry* Oxon., Wales, Edin.; *horticulture* R'dg.; *plant pathology* Leeds; *rural science* Edin.

### Arts

*Anthropology* Camb., Durh., Lond., Oxon., Wales; *anthropology, cultural* Oxon.; *anthropology, physical* Oxon.; *anthropology, social* Manc., Edin.; *archæology* Liv., Lond.; *archæology, Chinese* Lond.; *archæology, classical* Camb., Lond., Oxon.; *archæology, European* Lond., Oxon.; *archæology, Indian* Lond.; *archæology, Islamic* Lond.; *archæology of Western Asia* Lond.; *archæology, prehistoric* Camb., Lond.; *archive administration* Lond.; *art* Wales; *art, history of* Lond., Oxon.; *biblical history & literature* Sheff.; *biblical knowledge* Manc.; *biblical studies* Durh., Glas.; *business studies* Sheff.; *Christian theology* Camb.; *commerce* Birm.; *diction & drama* Lond.; *divinity* Birm.; *divinity (further study in)* Hull; *drama* Lond., Glas.; *economics* Camb., Oxon.; *economics & political science* Oxon.; *economic studies* Durh.; *Egyptology* Lond.; *fine art* Durh., Lond., Oxon., R'dg., Wales; *geography* Lond., Wales, Edin.; *geography, social* Glas.; *handicraft* Wales; *history & philosophy of science* Camb., Leeds, Oxon.; *history & archæology, Greek* Glas.; *history & archæology, Roman* Glas.; *history, Greek* Glas.; *history, Islamic* Glas.; *history, Roman* Glas.; *Indian philosophy* Lond.; *industrial administration* Manc.; *institutional management* Lond.; *international studies* Lond.; *librarianship* Lond.; *linguistics, general* Edin.; *mediaeval & modern writing* Wales; *music*

\* Note.—A fuller directory is to be found in *Higher Education in the United Kingdom: a Handbook for Students from Overseas* (Longmans, Green & Co., 1960).

§ Including the University College of North Staffordshire, which awards its own degree of BA.

# UNITED KINGDOM DIRECTORY TO SUBJECTS OF

<i>For an explanation of the symbols used, see p. 819</i>	Birmingham	Bristol	Cambridge	Durham	Exeter	Hull	Leeds	Leicester	Liverpool	London (see also pp. 968-970)
Accountancy/Accounting	✓	✓		✓		✓	✓		✓	✓
African Studies										✓
Agriculture			✓	✓			✓			✓
Anatomy	✓	✓	✓	✓			✓		✓	✓
Anthropology			✓	✓						✓
Archaeology	✓		✓	✓	✓		✓	✓	✓	
Architecture			✓	✓					✓	✓
Art/History of Art	✓		✓	✓			✓			✓
Astronomy			✓							✓
Bacteriology	✓	✓	✓	✓			✓		✓	
Banking	✓								✓	✓
Biochemistry	✓	✓	✓	✓			✓	✓	✓	✓
Brewing, Malting, etc.	✓									
Building									✓	
Celtic			✓						✓	
Chemistry, Colour							✓			
Chemistry, Technical										
Commerce	✓						✓		✓	✓
Criminology							✓			✓
Dairying										
Dentistry	✓	✓		✓			✓		✓	✓
Domestic Science		✓								✓
Drama		✓								
Dutch			✓							✓
Education										
Electronics	✓	✓	✓	✓			✓	✓	✓	✓
Engineering, Aeronautical		✓	✓							✓
Chemical	✓		✓	✓			✓			✓
Civil, Electr., Mech.	✓	✓	✓	✓			✓	✓	✓	✓
Marine/Naval Archit.				✓					✓	
Municipal										✓
Estate Management			✓							✓
Forestry			✓							
Fuel Technology	✓			✓			✓			✓
Genetics	✓	✓	✓	✓		✓	✓	✓	✓	✓
Geodesy			✓							

*Note.*—All universities award first degrees with honours, or special (Greek and Latin), economics, English, French, geography, geology,

# STUDY (see p. 819)—TABLE OF FIRST DEGREE COURSES

North Staffordshire	Nottingham	Oxford	Reading	Sheffield	Southampton	Wales	Aberdeen	Edinburgh	Glasgow	St. Andrews	Belfast	For an explanation of the symbols used, see p. 819
	✓			✓	✓	✓	✓	✓	✓	✓	✓	Accountancy/Accounting
	✓					✓	✓	✓	✓		✓	African Studies
	✓	✓	✓			✓	✓	✓	✓		✓	Agriculture
		✓		✓		✓	✓	✓	✓	✓	✓	Anatomy
		✓				✓		✓	✓			Anthropology
		✓				✓		✓			✓	Archæology
				✓		✓		✓	✓			Architecture
			✓			✓		✓	✓			Art/History of Art
		✓						✓	✓	✓	✓	Astronomy
		✓	✓	✓		✓	✓	✓	✓	✓	✓	Bacteriology
								✓				Banking
	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Biochemistry
						✓						Brewing, Malting, etc.
						✓						Building
						✓	✓	✓	✓		✓	Celtic
									✓		✓	Chemistry, Colour
								✓	✓		✓	Chemistry, Technical
					✓			✓				Commerce
												Criminology
	✓		✓			✓		✓			✓	Dairying
				✓				✓	✓	✓	✓	Dentistry
												Domestic Science
												Drama
												Dutch
				✓		✓	✓	✓	✓	✓	✓	Education
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Electronics
					✓				✓		✓	Engineering, Aeronautical
				✓		✓			✓			Chemical
	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Civil, Electr., Mech.
									✓		✓	Marine/Naval Archit.
												Municipal
		✓				✓	✓	✓				Estate Management
						✓						Forestry
				✓		✓			✓			Fuel Technology
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	Genetics
		✓										Geodesy

degrees, in the following subjects: botany, chemistry, classics  
German, history, mathematics, philosophy, physics, zoology.

[continued on next page]



# UNITED KINGDOM DIRECTORY TO SUBJECTS OF

<i>For an explanation of the symbols used, see p. 819</i>	Birmingham	Bristol	Cambridge	Durham	Exeter	Hull	Leeds	Leicester	Liverpool	London (see also pp. 968-970)
Geophysics	✓		✓	✓						
Glass Technology										
History & Philosophy of Science		✓	✓			✓	✓	✓		✓
Horticulture										✓
Italian	✓	✓	✓				✓		✓	✓
Latin-American Studies			✓	✓			✓		✓	✓
Law	✓	✓	✓	✓	✓	✓	✓		✓	✓
Leather Industries							✓			
Marine Biol./Oceanography				✓					✓	✓
Medicine & Surgery	✓	✓	✓	✓			✓		✓	✓
Metallurgy	✓		✓	✓			✓		✓	✓
Microbiology	✓	✓					✓			
Military/War Studies										✓
Mining/Mng. Engineering	✓			✓			✓			✓
Music	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nutrition										✓
Oil Technology	✓									✓
Oriental Studies			✓	✓			✓		✓	✓
Paper Technology										
Pharmacy/Pharmacology							✓		✓	✓
Physical Education	✓									
Physiology	✓	✓	✓	✓			✓		✓	✓
Political Science	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Portuguese	✓		✓				✓		✓	✓
Poultry Husbandry										
Psychology	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scandinavian Studies			✓	✓		✓	✓			✓
Slavonic & other East European Studies	✓		✓				✓		✓	✓
Sociology/Social Studies	✓			✓	✓	✓	✓	✓	✓	✓
Spanish	✓	✓	✓	✓	✓		✓		✓	✓
Statistics	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Textiles							✓			
Theology/Biblical Studies	✓	✓	✓	✓	✓	✓	✓			✓
Town & Country Planning				✓					✓	
Veterinary Studies		✓	✓						✓	✓

*Notes.*—All universities award first degrees with honours, or special (Greek and Latin), economics, English, French, geography, geology,

STUDY (see p. 819)—TABLE OF FIRST DEGREE COURSES (contd.)

North Staffordshire	Nottingham	Oxford	Reading	Sheffield	Southampton	Wales	Aberdeen	Edinburgh	Glasgow	St. Andrews	Belfast	<i>For an explanation of the symbols used, see p. 819</i>
		✓							✓			Geophysics
				✓								Glass Technology
✓		✓		✓	✓		✓					History & Philosophy of Science
	✓		✓									Horticulture
	✓	✓	✓			✓	✓	✓	✓			Italian
		✓		✓		✓		✓	✓			Latin-American Studies
	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Law
												Leather Industries
				✓	✓	✓						Marine Biol./Oceanography
	✓	✓		✓		✓	✓	✓	✓	✓	✓	Medicine & Surgery
	✓			✓		✓		✓	✓			Metallurgy
	✓		✓			✓	✓		✓		✓	Microbiology
		✓										Military/War Studies
	✓	✓		✓		✓		✓	✓			Mining/Mng. Engineering
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Music
												Nutrition
												Oil Technology
		✓				✓	✓	✓	✓	✓		Oriental Studies
												Paper Technology
	✓	✓				✓		✓	✓	✓	✓	Pharmacy/Pharmacology
												Physical Education
		✓		✓	✓	✓	✓	✓	✓	✓	✓	Physiology
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Political Science
		✓		✓		✓			✓			Portuguese
			✓									Poultry Husbandry
✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	Psychology
							✓	✓	✓			Scandinavian Studies
	✓	✓						✓	✓			Slavonic & other East European Studies
✓	✓				✓	✓			✓			Sociology/Social Studies
	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Spanish
	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Statistics
											✓	Textiles
✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	Theology/Biblical Studies
												Town & Country Planning
								✓	✓		✓	Veterinary Studies

degrees, in the following subjects: botany, chemistry, classics  
German, history, mathematics, philosophy, physics, zoology.

## DIPLOMAS, CERTIFICATES, ETC. [contd. from p. 819].

Oxon., Wales; *palaeography & archives administration* Wales; *palaeography & manuscript studies* Edin.; *palaeography, semitic* Wales; *philology, comparative* Lond., Oxon., Glas.; *philology, romance* Glas.; *philology, semitic* Glas.; *phonetics* Lond., Edin.; *psychology* Lond., Glas.; *psychology, applied* Liv.; *public administration* Birm., Durh., Exe., Hull, Leeds, Liv., S'ton., Edin., Glas.; *religious knowledge* Lond.; *study of records & administration of archives* Liv.; *theology* Birm., Durh., Leeds, Lond., Manc., Oxon., Wales.

LANGUAGES, ETC. *African languages* Lond.; *Arabic* Durh., Leeds, Lond.; *Bantu languages* Lond.; *Bengali* Lond.; *bilingual studies* Wales; *Burmese* Lond.; *Celtic studies* Oxon.; *Chinese* Lond.; *Czechoslovak* Lond.; *English for foreign students* Lond.; *English language & literature for overseas students* Exe.; *English studies* Leeds, Edin.; *English studies for overseas students* Nott.; *foreign languages* Durh.; *foreign languages, modern* Lond.; *French* Wales; *French language* Exe.; *German language* Exe.; *Gujarati* Lond.; *Hebrew* Leeds, Lond.; *Hebrew palaeography & epigraphy* Lond.; *Hebrew, teaching of* Leeds; *Hindi* Lond.; *Indian palaeography & epigraphy* Lond.; *Indo-Aryan languages, comparative grammar of* Lond.; *Iranian* Lond.; *Islamic studies* Edin.; *Japanese* Lond.; *Malay* Lond.; *Marathi* Lond.; *modern languages* Camb.; *Oriental languages* Lond.; *Oriental studies* Camb.; *Persian* Lond.; *Polish* Lond.; *Russian* Leeds, Lond.; *Scandinavian studies* Lond.; *Sinhalese* Lond.; *Slavonic studies* Camb., Oxon.; *Spanish* Leeds; *Swedish* Hull; *Tamil* Lond.; *Turkish* Lond.; *Urdu* Lond.; *West African languages* Lond.; *Yugoslav* Lond.

LAW. *Administrative law & practice* Edin.; *law* Lond., Oxon.; *law, international* Camb., Liv., Manc.; *law, Roman* Camb.; *legal studies, comparative* Camb.

## Education

*Art teacher's* Lond., Manc.; *child service* Birm., Wales; *education all univs. (incl. N. Staffs.)*; *education, adult* Manc., Nott.; *educational psychology* Birm., Leic., Manc.; *educational studies* Edin.; *education (fine art)* Durh.; *education for overseas students* Exe.; *education for overseas teachers* Durh.; *education, health* Lond.; *education of backward children* Leeds; *education of handicapped children* Durh., Lond.; *education of young children* Durh.; *education, physical* Leeds; *education, primary* Leeds, Nott.; *education, religious* Leeds, Nott.; *education, rural* R'dg.; *education, secondary* Durh., Leeds, Nott.; *English educational thought & practice* Lond.; *psychology of childhood* Birm.; *teacher's* Manc.; *teachers of the cational subnormal children* Birm.; *teachers of tea blind* Birm.; *teachers of the deaf* Manc.; *teaching of English as a foreign language* Lond.; *teaching of handicapped children* Liv.

## Medicine (incl. Dentistry and Veterinary Medicine)

*Applied parasitology & entomology* Lond.; *clinical psychology* Edin.; *dental surgery (JDS)* Brist., Durh., Leeds, Manc., Sheff.; *dentistry, public* St. And.; *medical illustration* Edin.; *medical services administration* Edin.; *mental health* Lond.; *nurse teacher's* Leeds; *nurse-tutor's* Edin.; *nursing* Leeds, Lond.; *nursing, community* Manc.; *nursing studies* Edin.; *pathology, clinical* Lond.; *psychiatry* Edin.; *psychological medicine* Durh., Leeds, Lond., Manc.; *public health* Brist., Durh., Leeds, Liv., Lond., Manc., Sheff., Wales, Aberd., Edin., Glas., St. And., Belf.; *radiodiagnosis* Liv., Edin.; *radiotherapy* Liv., Edin.; *sister-tutor's* Lond.; *tropical medicine & hygiene* Liv., Lond., Edin.; *tropical veterinary medicine* Edin.; *tuberculous diseases* Wales; *veterinary hygiene* Liv.; *veterinary state medicine* Edin.

## Science

*Bacteriology* Lond., Manc.; *bacteriology & microbiology* Brist.; *biology* Edin.; *dietetics* Lond.; *genetics, animal* Edin.; *mathematical physics* Birm., Wales; *mathematical statistics* Birm., Camb.; *mathematical statistics & computational analysis* Wales; *mathematics, actuarial* Edin.; *microbiology* Sheff.; *micropalaeontology* Wales; *natural history* Lond.; *natural science* Camb.; *numerical analysis* Lond.; *numerical analysis & automatic computing* Camb., Durh.; *statistics* Manc., Oxon., Aberd.

## Social Studies

*Medical social work* Edin.; *personnel management* Lond., Manc., Wales; *political, economic & social studies* Nott.; *psychiatric social work* Edin.; *psychiatric social workers'* Manc.; *public & social administration* Oxon.; *social administration* Exe., Liv., Manc., St. And.; *social science* Liv., Wales; *social science & administration* Lond.; *social studies* Brist., Durh., Hull, Leeds, Leic., Lond., N. Staffs., Sheff., S'ton., Belf.; *social studies, applied* Brist., Leic., Lond.; *social studies in tropical territories* Lond.; *social study* Birm., Edin., Glas.; *social work* Birm.; *social workers in mental health* Lond.; *sociology* Glas.; *sociology, industrial* Liv.; *theological & social studies* Nott.; *youth leadership & organization* Wales.

## Technology &amp; Applied Science

*Architecture* Camb., Durh., Lond., Manc., Sheff., Wales, Edin.; *building science* Liv.; *ceramics* Leeds; *chemistry, colour* Leeds; *chemistry, technical* Edin.; *civic design* Liv.; *concrete technology* Leeds; *decoration* Lond.; *dyeing* Leeds; *dynamics, applied* Edin.; *electronics* Durh., S'ton.; *electronics, applied* Durh.; *electronics & radio* Edin.; *engineering* Camb., Liv., Lond., Wales, Glas.; *engineering, chemical* Birm., Leeds, Lond., Manc.; *engineering, civil* Birm.; *engineering, control* Camb.; *engineering, electrical (information*

*engineering*) Birm.; *engineering, electrical power* Durh.; *engineering, gas* Leeds; *engineering, highway & traffic* Durh.; *engineering, mechanical (thermodynamics & related studies)* Birm., Glas.; *engineering, mining* Leeds; *engineering, production* Durh., Manc.; *engineering production & management principles* Birm.; *engineering, public health* Durh.; *fuel science* Leeds; *fuel technology* Durh., Nott.; *fuel technology & chemical engineering* Sheff.; *geophysical surveying* Edin.; *glass technology* Sheff.; *landscape architecture* R'dg.; *landscape design* Durh., Lond.; *leather manufacture* Leeds; *malting & brewing* Birm.; *mech-*

*anics, applied* Sheff.; *metallurgy* Leeds, Lond., Wales; *metallurgy, industrial* Birm.; *metallurgy (iron & steel)* Sheff.; *metallurgy, physical* Sheff.; *mineral dressing & coal preparation* Leeds; *mining* Birm., Lond., Sheff.; *mining, metalliferous* Wales; *paper technology* Manc.; *photogrammetry* Lond.; *physics, technical* R'dg.; *preservation & restoration of historical buildings* Lond.; *structural design* Durh.; *surveying* Lond.; *technology* Manc.; *textile chemistry* Manc.; *textile industries* Leeds, Manc.; *theory of structures & strength of materials* Camb.; *town & country planning* Manc.; *town planning* Durh., Lond.

STATISTICS. For statistical information see above, especially the sections on 'Finance' and 'Students'. For particulars of overseas students

enrolled at universities in the United Kingdom, see Appendix III.

POSTGRADUATE AWARDS. The Association of Universities of the British Commonwealth publishes every two years a 130-page booklet entitled *United Kingdom Postgraduate Awards (Fellowships, Scholarships, Grants, etc.)* which contains lists of

'open' awards tenable at U.K. universities and of the more important 'open' awards tenable outside the United Kingdom by U.K. graduates. The 1960-62 edition can be consulted in university and other principal libraries.

# ENGLAND AND WALES

[Information compiled as at 17/8/60]

## UNIVERSITY OF BIRMINGHAM\*

Founded 1900; previously established as Mason Science College 1880,  
and incorporated as Mason University College 1898

Postal Address: Birmingham 15, England

Telephone: Selly Oak 1301

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. SIR ANTHONY EDEN, KG, MC, Hon. DCL *Oxon.* & *Durh.*, Hon. LL.D. *Belf.*, *Birm.*, *Calif.*, *Camb.*, *Col.*, *Denver*, *Leeds*, *McG.*, *Sheff.* & *Tor.*

PRO-CHANCELLOR—S. F. BURMAN, CBE, MA

DEPUTY PRO-CHANCELLOR—Sir WILFRID MARTINEAU, MC, TD, MA *Camb.*

TREASURER—W. H. NEWTON, MA, FCA

VICE-CHANCELLOR AND PRINCIPAL—SIR ROBERT AITKEN, MD *N.Z.*, DPhil *Oxon.*, Hon. LL.D. *Dal.*, *Melb.*, *Panj.*, *McG.* & *Penn.*, Hon. DSc *Syd.*, Hon. DCL *Oxon.*, FRCP, FRCPEd, FRACP

VICE-PRINCIPAL—Professor K. MATHER, CBE, DSc *Lond.*, MSc, FRS

REGISTRAR—G. TEMPLEMAN, MA *Lond.*, PhD, FSA

SECRETARY—G. L. BARNES, MA, FCA

LIBRARIAN—K. W. HUMPHREYS, BLitt MA *Oxon.*

SENIOR WOMAN TUTOR—NANCY A. MACFARLANE, MA *Oxon.*

## TEACHING STAFF

[† = Part-Time]

### Accounting and Administration

Cousins, D., BCom, FCA	Prof.
Higgins, P., BCom <i>Edin.</i>	Lectr.
Turner, E. C., MCom, FCA	† Lectr.

### Anatomy

Zuckerman, Sir Solly, CB, MA <i>Oxon.</i> & <i>Cape T.</i> , DSc <i>Lond.</i> , MD, FRS	Sands Cox Prof.
Smout, C. F. V., MD	† Prof.
Krohn, P. L., BA BM BCh <i>Oxon.</i>	
Nuffield Gerontological Res. Fellow, Hon. Prof.	
Eayrs, J. T., PhD DSc	

(Compar. Neurol.) Reader

Thomson, A. P. D., MBE, BSc MB ChB <i>Glas.</i>	Sr. Lectr., Actg. Dir. of Dept.
Eckstein, P., MA MD <i>Camb.</i>	Sr. Lectr.
Green, S. H., MB ChB	Sr. Lectr.
Holmes, R. L., MB ChB PhD <i>Leeds</i>	Sr. Lectr.
Ashton, E. H., PhD DSc	Sr. Lectr.

Thomas, G. H., PhD *Lond.*

(Endocrine Chem.) Sr. Lectr.

Mandl, Anita M., BSc *Lond.*, PhD DSc

(Endocrinol.) Sr. Lectr.

Darlington, D., MB ChB

Lectr.

Lisowski, F. P.

Lectr.

Dallas Ross, W. P., MA MB BChir *Camb.*

Lectr., Tutor

Knowles, Sir Francis, Bt., DPhil *Oxon.*

(Endocrinol.) Lectr.

Glass, A., BSc MB ChB

Lectr.

Rogers, A. W., BSc MB BS *Lond.*

Lectr.

5 Temp. Lectrs., 5 Res. Fellows

† Lectrs. in Radiol. Anat.

Astley, R., MB ChB

Hutton, J. F. K., MB ChB *Glas.*

### Ancient History and Archaeology

Tritsch, F. J., PhD *Heidel.*, MA

Reader

Gelling, P. S., MA *Camb.*

Lectr.

Member of the Association of Universities of the British Commonwealth

Tomlinson, R. A., MA *Camb.*

1 Res. Fellow

**Art (Fine Arts)**Waterhouse, E. K., CBE, MA *Oxon.*,AM *Prin.*, FBA

Barber Prof., Dir., Barber Inst. of Fine Arts

Garlick, K. J., MA *Oxon.*, PhDJames, R. E. W., MA *Camb.*Downes, J. K., BA PhD *Lond.*

1 Res. Fellow

**Biochemistry**, see also *Physiol.*Perry, S. V., BSc *Liv.*, PhD *Camb.*

Prof., Hd. of Dept.

NORTIS, F. W., PhD *Lond.*, DSc, FRIC

(Plant B.) Reader

(Challinor, S. W., DSc *Edin.*, PhD, FRIC

Sr. Lectr.

Rainbow, C., PhD

Sr. Lectr.

Kulka, Dora, PhD *Vienna*

Lectr.

Kekwick, R. G. O., BSc PhD *Lond.*

Lectr.

Greenshields, R. N., BSc PhD

Lectr.

Teale, F. W. J., BSc *Lond.*, PhD

Lectr.

Walker, D. G., MSc PhD *Lond.*

Lectr.

1 Res. Fellow

Sub-Dept. of Malting &amp; Brewing

Adrian Brown Prof.

Rainbow, C., PhD

Sr. Lectr.-in-Charge

**Botany**Heslop-Harrison, J., PhD *Belf.*, DSc *Durh.*,

F.R.S

Mason Prof.

Hawkes, J. G., MA PhD ScD *Camb.*

(Taxon.) Sr. Lectr.

Harrold, C. E., BSc *Lond.*, PhD *Camb.*

Lectr.

Greene, S. W., BA *Dub.*

Lectr.

Poel, L. W., BSc *Liv.*, PhD *Glas.*

Lectr.

Idle, D. B., BSc PhD *Lond.*

Lectr.

Davies, M. E., BSc PhD

Lectr.

Montgomery, Nancy, BSc PhD *Lond.*

Temp. Lectr.

Keyworth, W. G., BSc PhD *Lond.* Recog. Lectr.

2 Res. Fellows

**Brewing, etc.**, see *Biochem.***Chemistry**

Stacey, M., PhD DSc, FRS

Mason Prof., Hd. of Dept.

Robb, J. C., PhD *Aberd.*, DSc

(Phys. C.) Prof.

Tatlow, J. C., PhD DSc

(Org. C.) Prof.

Belcher, R., PhD DSc

(Analyt. C.) Prof.

Pinkard, F. W., MSc *Wales*

Sr. Lectr., Tutor

Gilbert, G. A., MA PhD *Camb.*

(Bio-Phys. C.) Sr. Lectr.

Bevington, J. C., MA PhD *Camb.*, DSc

Sr. Lectr.

Randles, J. E. B., MA *Camb.*, BSc *Lond.*,

DSc

Sr. Lectr.

Sheridan, J., MA DPhil *Oxon.*, DSc

Sr. Lectr.

Allen, P. E. M., PhD

Lectr.

Barker, S. A., PhD DSc

Lectr.

Forbes, E. J., BA BSc DPhil *Oxon.*

Lectr.

Asst. Lectr.

Foster, A. B., PhD DSc

Gowenlock, B. G., PhD *Manc.*

Jones, A. S., PhD DSc

Patrick, C. R., BSc PhD

Peaker, F. W., PhD *Leeds*Small, R. W. H., BSc *Lond.*, PhD

Stephens, R., BSc PhD

Thomas, L. F., BSc PhD

West, T. S., BSc *Aberd.*, PhDWhitham, G. H., BSc PhD *Manc.*

Burdon, J., BSc PhD

Peacock, R. D., BSc PhD *Durh.*Stephen, W. I., BSc *Aberd.*, PhDMorgan, K. J., MA BSc DPhil *Oxon.*

Lehrle, R. S., BSc PhD

Hobson, J. D., BSc PhD *Sheff.*Majer, J. R., MSc PhD *Lond.*Rogers, N. A. J., MA DPhil *Oxon.*Brown, J. K., BA PhD *Camb.*

Webber, J. M., BSc PhD

Macdonald, Alison, BSc *Aberd.*, MSc

PhD

Member of Staff

10 Res. Fellows

**Classics**, see *Greek, Latin***Commerce**, see also *Acctg.*, *Econ. Hist.*,  
*Econ.*Walker, G., MA *Oxon.*, DI Litt

Prof.

Pictou, J. G., MCom (Indust. Econ.) Sr. Lectr.

Ross, N. S., PhD *Durh.*, MA

(Employer-Employee Relns.) Sr. Lectr.

Beesley, M., BCom PhD

Lectr.

Baldamus, W., DrRerPol *Fran.*

(Indust. Relns.) Lectr.

**Commercial Law**Goitein, H., LLD *Lond.*, MCom

Prof.

**Dentistry**MacGregor, A. B., MA MD BChir *Camb.*,

FDSRCS

(D. Surg.) John Humphreys Prof., Dir.

of Dental Studies

Osborne, J., PhD *Sheff.*, MDS, FDSRCS

(D. Prost.) Prof., Tutor, Dep. Dir. of

Dental Studies

(D. Pathol.) Prof.

Tavener, R. W. H., BDS

(Oper. D. Surg.) Sr. Lectr.

Whitehead, F. I. H., FDSRCS

(Oper. D. Surg.) Sr. Lectr.

Shovelton, D. S., BSc BDS, FDSRCS

(Oper. D. Surg.) Sr. Lectr.

Marsland, E. A., PhD BDS

(D. Pathol.) Sr. Lectr.

Whitfield, I. C., PhD BSc *Lond.*, DSc

(Physiol. for D. Students) Sr. Lectr.

Fox, E. C., MD *Vienna* (Oper. D. Surg.) Lectr.

Shreeve, N. G., BDS (Oper. D. Surg.) Lectr.

Shaw, J. G., FDSRCS (Oper. D. Surg.) Lectr.

Day, A. J. W., BDS, FDSRCS (Orthod.) Lectr.

Foster, T. D., BDS, FDSRCS (Orthod.) Lectr.

Wheatcroft, J. F., LDS (Oper. D. Surg.) †Lectr.

Newman, P. A., LDS (Oper. D. Surg.) †Lectr.

**Hoggins, Mrs. Mary I., LDS**

(Oper. D. Surg.) †Lectr.  
Calverley, B. C., MB ChB LDS, FDSRCS

(Oper. D. Surg.) †Lectr.  
Wigley, F. E., LDS (Oper. D. Surg.) †Lectr.

Line, E., BDS (Oper. D. Surg.) †Lectr.

Brady, C. I., BDS (Oper. D. Surg.) †Lectr.

Noble, W. N. (Oper. D. Surg.) †Lectr.

Jennens, P. E. (Oper. D. Surg.) †Lectr.

Graty, T. C., BDS LDS (D. Prosth.) Lectr.

Tomlin, H. R., BDS (D. Prosth.) Lectr.

Corbett, M. Elisabeth, BDS (D. Histol.) Lectr.

Davison, P. H., BSc MB ChB, FRCP

(Med. for D. Students) †Lectr.

Gourevitch, A., MC, MB ChB, FRCS

(Gen. Surg. for D. Students) †Lectr.

..... (Anat. for D. Students) Lectr.

Inglis, J. McN., MB ChB Leeds, FFARCS

(Gen. Anæsth. for D. Students) †Lectr.

James, W. W., OBE, MCh, FRCS, FDSRCS

Hon. Res. Fellow, Hon. Member of

Staff

**Clinical Lecturers at Dental Hospital**

Day, A. J. W., BDS, FDSRCS

Taylor, R. C., LDS

Meacock, S. P., LDS

Stammers, A. F., MDS

Clendinnen, A. G., LDS

Knight, J. S., BDS PhD

Heighway, H. E., BDS LDS

Mitchell, R. G., MB ChB Manc., FDSRCS

**Univ. Clinical Lecturers in D. Surg. at**

Teaching Hospital

Walker, R. O., FDSRCS

Pusey, R. F., BDS Lond.

Hoggins, C. S., BDS, FDSRCS

**Clinical Demrs. in D. Surg.**

Bate, W. J., LDS

Draycott, R. J., LDS Liv.

Tinkler, S., LDS

Cond, J. R., BDS

Murphy, W., LDS

Robinson, R. C., LDS

**Sr. Clinical Tutor in D. Surg.**

Roberts, W. R., TD, MDS MB ChB, FDSRCS

**Clinical Tutors in D. Surg.**

Browne, A. L., LDS

Brown, Emily L., MB ChB Glas.

Hall, Sheila M., LDS

Jackson, B. H., LDS

Kitchen, J., LDS

Norris, N., BDS

Quinet, Doris, MB ChB

Wright, T. J., BDS

**Econometrics and Social Statistics, see also Maths.**

Gorman, W. M., BA Dub. Sr. Lectr.-in-Charge

Walters, A. A., BSc(Econ) Lond. Lectr.

Wise, J., BSc(Econ) PhD Lond. Lectr.

Morris, R. N., MSocSc Lectr.

**Economic History, see also Hist.**

Court, W. H. B., MA Camb. & Harv., MCom Prof.

Wightman, D. R., BSc(Econ) Lond., PhD Sr. Lectr.

Eversley, D. E. C., BSc(Econ) Lond., PhD Sr. Lectr.

Burley, K. H., BA PhD Lond. Lectr.

**Economics, see also Comm., Econ. Hist.**

Hutchison, T. W., MA Camb. Mitsui Prof

Mackintosh, A. S., MA Camb. Lectr.

Harbury, C. D., BCom Lond., PhD Wales Lectr.

Bennathan, E., MCom (Internat. E.) Lectr.

McManus, M., BCom PhD Lectr.

**Economics and Institutions of the U.S.S.R.**

Baykov, A., JurD Prague, PhD (Russian Econ. Studies) Prof.

Barker, G. R., MA Camb., MCom (Russian Econ. Studies) Lectr.

Koutaissoff, Elisabeth, IèsSs Lausanne, BLitt Oxon. (Russian Lang.) Lectr.

Davies, R. W., BA Lond., PhD Lectr.

1 Res. Fellow

**Education, see also Inst. of Educn., below**

Jeffreys, M. V. C., CBE, MA Oxon. & Birm. Prof., Dir. of Univ. Inst. of Educn.

Peel, E. A., BSc Leeds, MA PhD Lond. Prof., Hd. of Dept. & of Dept. of Child Study

Sparrow, W. J., BSc MA PhD Sr. Lectr., Dep. to Hd. of Dept. for Postgrad. Trg.

Flood, W. E., MA Camb., PhD Sr. Lectr.

Pringle, Mrs. Mia L. Kellmer, BA PhD Lond. Sr. Lectr., Dep. Hd. of Dept. of Child Study

Burroughs, G. E. R., BSc Lond., PhD Lectr.

Cheetham, Grace, BSc Wales Lectr.

Curr, W., MA EdB Glas. Lectr.

Ewing, Nancy R., MA Edin. Lectr.

Goodborn, Mrs. E. Joyce †Lectr.

Gulliford, R., BA Lond. Lectr.

Gurland, Ingeborg, PhD Bonn Lectr.

Hallworth, H. J., MA Lond. Lectr.

Hobling, Margaret B., MA Oxon. Lectr.

Honeybone, H. C., BA Lond. Lectr.

James, B. C. L., MA Oxon. Lectr.

Jull, Mrs. Estelle N., BA Oxon., MED Durh. Lectr.

Law, Elizabeth, BA Manc. Lectr.

Maddox, H., BA PhD Lond. Lectr.

Oliver, J. N., BSc Sheff. Lectr.

Payne, Ethel R., MSc Wales Lectr.

Phillips, C. J., BSc Lond. Lectr.

Roberts, Christine D. Lectr.

Storer, W. O., MA Camb. Lectr.

Thorburn, A., MA Edin. Lectr.

Tubbs, A. E., BSc(Econ) Lond. Lectr.

Williams, Myfanwy Lectr.

Wills, Mrs. Vera W., DipSocStud *Lond.* Lectr.  
 Wilkinson, A. M., BA *Lond.*, PhD *Manc.* Lectr.  
 Beard, Ruth M., MSc MA PhD *Lond.* Lectr.  
 Bratchell, D. F., BA PhD

(Play Production) †Lectr.  
 Brocklehurst, J. B., BA *Nott.*, MA  
 DMus *Sheff.* Lectr.  
 Morris, S., BA *Lond.* Lectr.

### Electron Physics

Sayers, J., MSc *Belf. & Birm.*, PhD *Camb.* Prof.  
 Alfrey, G. F., MA DPhil *Oxon.* Lectr.  
 1 Res. Fellow

### Engineering, Chemical

Davies, J. T., MA *Camb.*, MSc *N.Z.*,  
 DSc *Lond.* Prof., Dir. of Dept.  
 Ellis, S. R. M., MSc *N.Z.*, PhD, FRIC Prof.  
 Crooks, W. M., BSc *Lond.*, PhD Sr. Lectr.  
 Gilmour, H., BSc *Glas.* Sr. Lectr.  
 Blakebrough, N., PhD *Manc.* Sr. Lectr.  
 Long, R., PhD *Leeds* Sr. Lectr.  
 Nutt, C. W., PhD *Brist.* Sr. Lectr.  
 Bransom, S. H., PhD *Brist.* Lectr.  
 Husband, W. H., BSc *Manc.*, PhD Lectr.  
 Charles, E. J., BSc PhD Lectr.  
 Porter, C. R., PhD *Lond.* Lectr.  
 Botterill, J. S. M., BSc PhD Lectr.  
 Carter, J. W., BSc *Lond.* Lectr.  
 Barker, P. E., BSc Lectr.  
 Miskin, L. G., BSc Lectr.  
 Porter, K. E., BSc *Lond.* Lectr.  
 Mohtadi, F., PhD Lectr.  
 Jeffreys, G. V., MSc, FRIC Lectr.  
 Oliver, D. R., PhD Lectr.  
 Bott, T. R., BSc Lectr.  
 Cardew, M. H., PhD *Brist.* Lectr.  
 King, M. B., MA *Camb.*, PhD *Lond.* Lectr.  
 Pittaway, G. S., BSc Lectr.  
 Wall, C. G., BSc PhD Lectr.  
 Garner, F. H., OBE, PhD *Pitt.*, MSc,  
 FRIC Sr. Fellow  
 1 Res. Fellow

### Engineering, Civil

Redshaw, S. C., DSc *Wales*, PhD *Lond.*,  
 FRAEs Beale Prof.  
 Kolbuszewski, J., DIC, PhD *Lond.*, FGS  
 (Highway & Traffic E.) Prof.  
 Essery, I. T. S., MC, MSc Sr. Lectr.  
 Hobbs, F. D., DIC  
 (Highway E.) Paviers Sr. Lectr.  
 Chaplin, T. K., MA *Camb.* Lectr.  
 Wills, R. F., DIC, BSc Lectr.  
 Richards, T. H., MSc Lectr.  
 Brock, G., PhD Lectr.  
 Dwight, J. B., MA MSc *Camb.* Lectr.  
 Richardson, B. D., BSc Lectr.  
 Thomas, I. E., DIC, BSc *Wales*, MS  
 PhD *Northwestern* Lectr.  
 Evans, R. J., BSc ScM *Brown* Lectr.  
 Vaisey, Gillian, BSc *Lond.*, MA *Camb.* Lectr.  
 Hu, G. C.-Y., MSc  
 (Highway & Traffic E.) Lectr.

Lees, G., BSc *Manc.* (Road Materials) Lectr.  
 Jones, R. H., BSc PhD Asst. Lectr.

### Engineering, Electrical

Tucker, D. G., DSc *Lond.* Prof.  
 Bell, D. A., MA BSc *Oxon.*, PhD  
 (Electromag.) Reader  
 Allanson, J. T., MSc *Manc.* Sr. Lectr.  
 Welsby, V. G., PhD *Lond.* Sr. Lectr.  
 Griffiths, J. W. R., BSc *Brist.*, PhD Sr. Lectr.  
 Jarvis, A. P., MSc Lectr.  
 Hudson, J., MEng *Liv.* (Mining) Lectr.  
 Layton, J. M., BSc *Lond.*, BA *Oxon.* Lectr.  
 Henderson, J. G., BSc *Durh.* Lectr.  
 Cluley, J. C., MSc Lectr.  
 Wright, G. T., PhD Lectr.  
 Kay, L., BSc *Durh.* Lectr.  
 Howson, D. P., BSc *Brist.*, MSc Lectr.  
 Smith, I. R., BSc PhD *Brist.* Lectr.  
 Stack-Forsyth, E. F., BSc PhD *Natal* Lectr.  
 2 Res. Fellows

### Engineering, Mechanical

Tobias, S. A., MA *Camb.*, PhD DSc *Edin.*  
 Chance Prof., Hd. of Dept.  
 Bannister, F. K., BSc *Lond. & Leeds*, PhD  
 (Thermodyn.) Prof.  
 Colc, B. N., BSc *Lond.*, PhD Reader  
 Linning, W. A., BSc *Glas.* Lectr.  
 Raily, J. W., MSc *Lond.*, PhD Lectr.  
 Mills, B., BSc PhD Lectr.  
 Wright, E. H., BSc Lectr.  
 Patterson, J., BSc *Belf.*, PhD Lectr.  
 Hayes, S. V., BSc Lectr.  
 Allen, P. D., MA *Camb.* Lectr., Dep. for Admin.  
 Durrands, K. J., DipGradStudies Lectr.  
 Wallace, F. J., MSc PhD Lectr.  
 Maltbaeck, J. C., MSc *Denmark* Lectr.  
 Good, R. S. J., MA *Edin.* Lectr.  
 Amini, E., BSc Lectr.  
 Trengrouse, G. H., BSc Lectr.  
 Foster, K., BA *Camb.* Lectr.  
 Scott, B. F., BSc Lectr.  
 2 Res. Fellows

### Engineering Production

Dudley, N. A., BSc *Lond.*, PhD  
 Lucas Prof., Hd. of Dept. & Dir. of Inst.  
 Ainslie, W. G., BSc *Lond.*, MA Sr. Lectr.  
 Benson, F., BA *Lond.*, PhD Lectr.  
 Grisbrook, H., BSc Lectr.  
 Haley, K. B., BSc Lectr.  
 3 Res. Fellows

### Institute for Engineering Production

Edmondson, F., BSc Asst. Dir.  
 Sury, R. J. Staff Tutor  
 Turcan, J. R., BSc(Econ) *Lond.* Staff Tutor  
 Benson, F., BA *Lond.*, PhD Warden

### English

Nicoll, A., MA *Glas.*, HonDèsL *Toulouse &*  
*Montpellier*  
 (Engl. Lang. & Lit.) Prof., Dir. of  
 Shakespeare Inst.



Spencer, T. J. B., BA PhD *Lond.*

Prof., Hd. of Dept.

Shapiro, I. A., MA Sr. Lectr.

Duncan-Jones, Mrs. Elsie, MA *Camb.* Lectr.

Smith, H. A., PhD Lectr.

Galway, Margaret, MA *Belf.* Lectr.

Macfarlane, Nancy A., MA *Oxon.* Lectr.

Brewer, D. S., MA *Oxon.*, PhD Lectr.

Rees, Mrs. Joan, MA *Lond.*, BA Lectr.

Brown, J. R., MA BLitt *Oxon.*, PhD Lectr.

Shepherd, G. T., MA *Lond.* (Engl. Lang.) Lectr.

Stanley, E. G., MA *Oxon.*, PhD (Engl. Lang.) Lectr.

Herbert, A. J., MA *Lond.*

(Foreign Students) Tutor

#### 4 Res. Fellows

Fellows of Shakespeare Inst.

Harris, B. A., MA Fellow & Lectr.

Sanders, N. J., PhD

Ives, E. W., BA PhD *Lond.*

Alexander, R. N., MA *St. And.*

#### Fine Arts, see Art

#### French

Mackenzie, F., MA *N.Z. & Birm.*, Dèsl *Paris*,

Hon. DUMontpellier Prof.

Milner, J. M., MA *Leeds* Sr. Lectr.

Screech, M. A., BA *Lond.*, DLitt Sr. Lectr.

Tillett, Margaret G., MA *R'dg.*, Lèsl *Paris*

Lectr.

Hathaway, E. J., BA Lectr.

Hilton, Mrs. Margaret, BA *Oxon.* Lectr.

Williamson, J. C., BA *Nott.* Lectr.

Callander, Margaret M., MA *Manc.* Lectr.

Nicholas, B. L., MA BLitt *Oxon.* Lectr.

Jimack, P. D., BA *Lond.*, PhD *S'ton.* Asst. Lectr.

Argelliez, Simone (Colloquial French) Asst.

Best, Mmc. M. (Colloquial French) Asst.

Lachassagne, J. (Colloquial French) Asst.

Garemi, Mlle. R. (Colloquial French) Asst.

1 Res. Fellow

#### Genetics

Mather, K., CBE, DSc *Lond.*, MSc, FRS Prof.

John, B., PhD *Wales* (Cytol.) Lectr.

Lawrence, M. J., PhD *Wales* Lectr.

Philp, J., BSc *Glas.*, PhD *Lond.*

(Plant Breeding) Recog. Lectr.

1 Res. Fellow

#### Geography

Linton, D. L., DSc *Lond.* Prof.

Thorpe, H., MA MLitt *Durh.*, PhD

(Historical G.) Reader

Warwick, G. T., MBE, BSc *Brist.*, PhD Lectr.

Johnson, B. L. C., PhD *Lond.*, MA Lectr.

Stedman, M. B., MA *Camb.* Lectr.

Jones, I. E., BA *Wales* Lectr.

Stringer, E. T., BSc PhD Lectr.

Donkin, R. A., PhD *Durh.* Lectr.

Morgan, W. B., MA *Oxon.*, PhD *Glas.* Lectr.

1 Res. Fellow

#### Geology with Geophysics

Shotton, F. W., MBE, MA ScD *Camb.*,

FRS, FGS

Prof.

Griffiths, D. H., MSc *Manc.*, PhD, FGS

Sr. Lectr.

Lacy, E. D., BSc *Lond.*, FGS Sr. Lectr.

Hardie, W. G., BSc *Lond.*, FGS

Garrett, P. A., BSc, FGS Lectr.

Strachan, I., BSc *Edin.*, PhD *Camb.*, FGS Lectr.

King, R. F., MA PhD *Camb.*, BSc *Lond.* Lectr.

Moseley, F., MA *Camb.*, BSc PhD *Sheff.*,

FGS

Coope, G. R., MSc *Manc.*, FGS Lectr.

Blundell, D. J., PhD *Lond. & Birm.* Lectr.

2 Res. Fellows

#### German

Pascal, R., MA *Camb. & Birm.*, LittD *Camb.* Prof.

Thomas, R. H., MA *Camb.*, PhD Sr. Lectr.

Horne, J., PhD *Vienna* Lectr.

Prawer, S. S., MA *Camb.*, PhD Lectr.

Cunningham, Amy F., MA *Liv.* Lectr.

Wiener, P. B., MA Asst. Lectr.

Seiffert, L., BA *Syd.* Asst. Lectr.

Lockwood, W. B., BA *Manc.*, MA *Brist.*

Asst. Lectr.

Kuna, F., DPhil Lektor

#### Government, see Pol. Sci.

#### Greek

Thomson, G., MA *Camb. & Birm.* Prof.

Willets, R. F., MA Sr. Lectr.

Hooker, G. T. W., MC, MA *Lond.* Lectr.

Whittle, E. W., MA *Camb. & Birm.* Lectr.

Papayannopoulou, Katerina, Dip *Athens*

(Mod. G.) Asst.

#### History, see also Econ. Hist.

Hawgood, J. A., MA DLit *Lond.*, PhD *Heidel.*,

MCom

(Mod. H.) Prof.

Cronne, H. A., MA *Oxon. & Birm.*

(Mediæv. H.) Prof.

Styles, P., MA *Oxon.* (Engl. H.) Reader

Hilton, R. H., DPhil *Oxon.* (Mediæv. H.) Reader

Ransome, Mary, MA *Camb.* (Mod. H.) Sr. Lectr.

Archer, Margaret, MA *Liv.*, BLitt *Oxon.* Lectr.

Hardy, S. M., MA *Camb.*, PhD *Lond.* Lectr.

Johnson, D. W. J., BLitt *Oxon.* Lectr.

Sawyer, P. H., MA *Oxon.* Lectr.

Knecht, R. J., MA *Lond.* Lectr.

Humphreys, K. W., BLitt MA *Oxon.*

(Palæog.) Hon. Lectr.

#### Italian

Whitfield, J. H., MA *Oxon. & Birm.* Serena Prof.

Rees, D. G., MA *Oxon.* Lectr.

Carsaniga, G., Dott *Pisa* Asst. Lectr.

Marenco, F., Dott (Colloquial Italian) Asst.

#### Jurisprudence, see Law

#### Latin

Dudley, D. R., MA *Camb.*, FSA Prof.

Dorey, T. A., MA *Oxon.*, PhD Sr. Lectr.

Hooker, G. T. W., MC, MA *Lond.* Lectr.  
 Hooker, Edna M., MA *Lond.* Lectr.  
 Costa, C. D. N., BA *Oxon.* Asst. Lectr.

Cohen, D. E., MA DPhil *Oxon.* Asst. Lectr.  
 Parry, W., BSc *Lond.*, MSc *Liv.* Asst. Lectr.  
 1 Res. Fellow

**Law**

Hood Phillips, O., MA BCL *Oxon.*, MA LLB *Dub.*, LLM  
 (Jurisp.) Barber Prof., Dir. of Legal Studies  
 Unger, J., LLM *Lond.* (Law) Barber Prof.  
 Grove, G. A., LLM (Conveyancing & Equity) Prof.  
 Camm, W. C., LLM (Legal Ethics) Hon. Reader  
 Brown, L. N., MA LLB *Camb.*, DrenDroit *Lyons*  
 (Compar. L.) Asst. Dir. of Legal Studies, Sr. Lectr.

Garner, J. F., LLM Sr. Lectr.  
 Hudson, A. H., MA LLB *Camb.* (Common L.) Lectr.  
 Furmston, M. P., MA BCL *Oxon.* (Engl. L.) Lectr.

Andrews, J. A., BCL MA *Oxon.* (Engl. L.) Lectr.  
 Higgins, M. J., LLB *Camb.* & *Birm.* (Engl. L.) Lectr.

Bate, S. H., LLB Lectr.  
 Adams, D. S., BCL *Oxon.*, LLB Lectr.  
 Horner, J. A., BA LLB Lectr.

**Linguistics**

Ross, A. S. C., MA *Oxon.* & *Birm.* Prof.  
 1 Res. Fellow

**Malting and Brewing**, see Biochem.**Mathematical Physics**

Peierls, R. E., CBE, MA *Camb.*, DPhil *Leip.*,  
 DSc *Manc.* & *Liv.*, MSc, FRS Prof.  
 Mandelstam, S., BA *Camb.*, BSc *Rand.*,  
 PhD Prof.  
 Valatin, J. G., DIng *Bud.*, DSc *Paris* Reader  
 Field, G., BSc PhD *Lond.* Lectr.  
 Woodward, J. B., BSc PhD Lectr.  
 Castillejo, L., BSc *Lond.*, BA *Camb.* Lectr.  
 Chester, G. V., BSc *Edin.*, PhD *Lond.* Lectr.  
 Burkhardt, G. H., BA *Oxon.*, PhD Lectr.  
 Emery, V. J., BSc *Hull*, PhD *Manc.* Lectr.  
 Redish, K. A., BSc *Lond.* (Comput.) Lectr.  
 4 Res. Fellows

**Mathematics, Pure**

Hilton, P. J., MA DPhil *Oxon.*, PhD *Camb.* Mason Prof.  
 Daniels, H. E., MA *Camb.*, MA PhD *Edin.* (Statistics) Prof.  
 Kuttner, B., MA PhD *Camb.* (Analysis) Reader  
 Wardle, K. L., MA *Camb.* Sr. Lectr.  
 Calderwood, Nora I., MA BSc PhD *Edin.* Lectr.  
 Shephard, G. C., BA PhD *Camb.* Lectr.  
 Taylor, S. J., PhD *Camb.* Lectr.  
 Wishart, D. M. G., BSc *St.And.*,  
 MA *Prin.* (Statistics) Lectr.  
 Griffiths, H. B., MSc PhD *Manc.* Lectr.  
 Rogosinski, H. P., BA *Camb.* Asst. Lectr.

**Medicine**, see below**Metallurgy, Industrial**

Rollason, E. C., MSc PhD, FIM Prof.  
 Wilson, D. V., MA *Camb.*, PhD *Sheff.*,  
 FRIC Sr. Lectr.  
 Kondic, V., BSc *Belgrade*, PhD Sr. Lectr.  
 Bennett, G. H. J., BSc *Lond.* Lectr.  
 Roberts, W. T., MSc PhD *Wales* Lectr.  
 Rowe, G. W., MA PhD *Camb.* Lectr.  
 Male, A. T., BSc Asst. Lectr.  
 4 Res. Fellows

**Metallurgy, Physical**

Raynor, G. V., DPhil MA DSc *Oxon.*,  
 FRS (Phys. M.) Feeney Prof.  
 McQuillan, A. D., BSc *Durh.*, PhD *Melb.* Res. Prof.  
 Cahn, R. W., PhD *Camb.* (Phys. M.) Reader  
 Wright, T., PhD MSc *Sheff.* Sr. Lectr.  
 Pell-Walpole, W. T., PhD DSc Sr. Lectr.  
 Glover, S. G., BSc PhD Lectr.  
 Pratt, J. N., BSc PhD Lectr.  
 Eshelby, J. D., BSc PhD *Brist.* Lectr.  
 Evans, D. J., MSc PhD *Wales* Lectr.  
 Smallman, R. E., BSc PhD Lectr.  
 Smith, R. W., BSc PhD Lectr.  
 Wilson, J. R., BSc *Lond.*, MMet *Sheff.* Asst. Lectr.  
 Gibbons, D. F., BSc PhD Temp. Lectr.  
 5 Res. Fellows

**Microbiology**

Catcheside, D. G., MA *Camb.*, DSc *Lond.*,  
 FRS Prof.  
 Creaser, E. H., BA PhD *Camb.* Sr. Lectr.  
 Hopton, J. W., MScTech *Manc.*, PhD *Leeds* Lectr.  
 Drysdale, R. B., BSc *Glas.* Lectr.

**Mining and Minerals Engineering**

Ward, S. G., MSc *Lond.* & *Birm.*, DIC, PhD  
 Lond., FIF Prof.  
 Graham, J. K. L. (Metalliferous M.) Sr. Lectr.  
 Burrows, B. B. B., MSc (Mine Surveying & M.) Lectr.  
 Thomas, W. G., BSc *Wales* Lectr.  
 Ludlow, N. G. T., MSc Lectr.  
 Rozelaar, A. J. W., BSc Lectr.  
 Hoole, R. B., BSc Lectr.  
 Lawson, G. J., PhD Lectr.  
 1 Res. Fellow

**Music**

Lewis, A. C., MA *Camb.* & *Birm.*,  
 MusB *Camb.* Peyton & Barber Prof.  
 Trowell, B. L., MA PhD *Camb.* Lectr.  
 Doe, P. M., MA *Oxon.* Lectr.  
 Fortune, N. C., PhD *Camb.*, BA Lectr.

**Philosophy, Mental and Moral**

Duncan-Jones, A. E., MA *Camb.*, PhD Prof.  
 Whiteley, C. H., MA *Oxon.*, PhD

(Philos.) Reader

Geach, P. T., MA *Oxon.* Sr. Lectr.  
 Mayo, B., MA *Oxon.* Sr. Lectr.  
 Boden, Margaret A., BA *Camb.* Asst. Lectr.

**Physical Education**

Munrow, A. D., BSc *Lond.* Dir.  
 Madders, M. A. Lectr.  
 Knapp, Barbara N., MCom Lectr.  
 Roberts, Christine D. Lectr.  
 Slater, W. J. Lectr.  
 Molyneux, D. D., MA Lectr.  
 Herron, R., BA Asst. Lectr.  
 Macfadyen, Joy, BA Asst. Lectr.  
 Tuxworth, W. J., BA Asst. Lectr.  
 Vilppunen, P., MA Temp. Asst. Lectr.

**Physics**

Moon, P. B., MA PhD *Camb.*, MSc, FIP,  
 FRS Poynting Prof., Hd. of Dept.  
 Burcham, W. E., MA PhD *Camb.*, FRS  
 Oliver Lodge Prof.  
 Johnson, M. C., MA *Camb.*, DSc, FIP  
 (Astrophys.) Reader  
 Fremlin, J. H., MA PhD *Camb.*, DSc,  
 FIP Reader  
 Walker, J., BSc PhD, FIP  
 (Reactor Phys.) Reader

Knight, R. H., MSc Tutor & Sr. Lectr.  
 Macfadyen, K. A., MSc *Lond.*, FIP Sr. Lectr.  
 Chackett, K. F., BSc PhD Sr. Lectr.  
 Greenlees, G. W., MA PhD *Camb.* Sr. Lectr.  
 Riddiford, L., MSc *Melb.*, PhD Sr. Staff Fellow  
 Bracher, D. F., BSc PhD Lectr.  
 Black, P. J., PhD *Camb.*, BSc *Manc.* Lectr.  
 Rolph, P. M., BSc PhD Lectr.  
 Doran, G. A., BSc PhD *Leeds* Lectr.  
 McKee, J. S. C., BSc PhD *Belf.* Lectr.  
 Glen, J. W., MA PhD *Camb.* Lectr.  
 Lomer, T. R., BSc PhD *Lond.* Lectr.  
 Young, J. D., BSc PhD Lectr.  
 Van der Raay, H. B., BSc *Rand.*, PhD Lectr.  
 Dyson, N. A., MA PhD *Camb.* Lectr.  
 Champency, D. C., BA DPhil *Oxon.* Lectr.  
 O'Connor, D. A., BSc *Lond.* Lectr.  
 Whitworth, R. W., MA PhD *Camb.* Lectr.  
 Robbins, A. B., BSc *Rutgers*, MSc  
 PhD *Yale* Lectr.  
 England, J. B. A., PhD Lectr.  
 van Zyl, C. P., MSc *O.F.S.* Lectr.  
 Swinbank, P., BSc PhD Lectr.  
 Harris, R. G., BSc Asst. Lectr.  
 Scott, J. A., BSc *Lond.*, MSc *Qu.* Asst. Lectr.  
 Farr, R. F., MA, FIP Hon. Lectr.  
 Whitaker, P. D., BSc *Lond.*, PhD *Nott.* Staff Fellow

Finlay, E. A. S., BSc BE *Syd.*, PhD Staff Fellow  
 Powell, W. B., MA *Camb.* Staff Fellow  
 Martelli, G., LibDocinFisicaSup *Pisa* Staff Fellow

Waterton, P. J., BSc *Lond.*

Staff Fellow

Shaylor, H. R., MSc

Staff Fellow

9 Res. Fellows

**Physiology**, see also Zool.

Bush, J. E., MA MB BChir PhD *Camb.*  
 Bowman Prof., Dir. of Dept.  
 Thorpe, W. V., MA *Camb.*, PhD *Lond.*  
 (Physiol. Chem.) Prof.  
 Barclay, J. A., MA BSc MB ChB *Aberd.*  
 (Renal P.) Reader  
 Whitfield, I. C., PhD BSc *Lond.*, DSc  
 (Physiol.) Reader  
 Hall, Kathleen, PhD BSc *Wales*, DSc  
 (Histol.) Sr. Lectr.  
 Bray, H. G., DSc PhD (Biochem.) Sr. Lectr.  
 Nutt, Marjorie E., BSc *Lond.*, PhD Lectr.  
 Asher, H. M. F., BA *Camb.* Lectr.  
 Hamley, E. J., BA *Tor.*, PhD *Lond.* Lectr.  
 Harries, E. H. L., MB BS PhD *Lond.* Lectr.  
 Brown-Grant, K., MA MD *Camb.* Lectr.  
 Cumming, J. D., MB ChB PhD Lectr.  
 Haigh, A. L., BSc PhD *Brist.* Lectr.  
 James, Sybil P., PhD DSc (Biochem.) Lectr.  
 White, K., BSc *Lond.*, PhD (Biochem.) Lectr.  
 Clarke, H. G., BSc *Nott.*, MB ChB *Edin.*  
 Temp. Lectr.  
 1 Res. Fellow

**Political Science**

Ferns, H. S., MA PhD *Camb.* Prof.  
 Maddick, H., MA *Oxon.* (Pub. Admin.) Lectr.  
 Ostergaard, G. N., MA DPhil *Oxon.* Lectr.

**Russian Economic Studies**, see Econ. and Instns. of the U.S.S.R.**Russian Language and Literature**

Christian, R. F., MA *Oxon.* Sr. Lectr.-in-Charge  
 Arian-Baykov, Mrs. Inna, DPhil *Prague* Lectr.  
 Johnson, D. J. I., BA PhD Lectr.  
 Ross, L., BCom Asst. Lectr.  
 Mitchell, S., MA *Oxon.* Asst. Lectr.  
 Alexander, Sara (Colloquial Russian) Asst

**Social Study**

Laffite, F., BA *Oxon.*  
 (Soc. Policy & Admin.) Prof.  
 Cavenagh, Mrs. Winifred E., BSc(Econ)  
 DPA *Lond.*, PhD Lectr.  
 Collis, A., BSc(Econ) *Lond.* Lectr.  
 Laycock, A. L., BA *Lond.*, PhD *Edin.* Lectr.  
 Shapiro, Mrs. Pauline C., MA *Oxon.*  
 (Child Service Course) Lectr., Tutor  
 Waldron, F. Estelle, BA *Lond.*  
 (Soc. Work) Lectr.

**Sociology**

Madge, C., MA (Sociol.) Prof.  
 Halsey, A. H., BSc(Econ) PhD *Lond.*  
 (Sociol.) Sr. Lectr.  
 Klein, Josephine, BA *Lond.*, PhD (Sociol.) Lectr.

Dennis, N., BSc *Lond.* (Sociol.) Lectr.  
Williams, Sheila, BA *Lond.* Temp. Asst. Lectr.

**Spanish**

Manson, J., MA PhD *Edin.* Assoc. Prof.  
Atkinson, Dorothy M., MA *Sheff.* Lectr.  
Gibbs, J., MA BLitt DPhil *Oxon.* Lectr.  
Lora, J. Garcia, MA Lectr.  
Inglis, A. D., MA PhD *Edin.* Asst. Lectr.  
Burns, Mrs. Adelaide, MA *Liv.* †Temp. Lectr.  
Jarero, E. (Colloquial Spanish) Asst.

**Theology**

Davies, Rev. J. G., MA *Oxon. & Birm.,*  
DD *Oxon.* Edward Cadbury Prof.  
Eaton, J. H., MA *Camb.* Lectr.

**Recognized Lecturers**

Curtis, Rev. A. H., MA BD *Edin.*  
Davis, Very Rev. H. F., MA *Oxon., DD Freib.*  
Foster, Rev. R. J., STL LSS *Rome*  
Gribble, Rev. Canon A. S., MA *Camb.*  
Herbert, Rev. A. S., MA *Oxon., BD Lond.*  
Long, Rev. E., MA *Camb. & Liv.*  
Mitton, Rev. C. L., BA *Manc., BD MTh*  
PhD *Lond.*  
Strawson, Rev. W., BD MTh *Lond.*  
Rodd, Rev. C. S., MA *Camb.*  
Lefever, Rev. H. C., BA BD *Lond.,*  
DPhil *Tubingen*  
Fenn, Rev. J. E., BSc *Lond.*

**Zoology and Comparative Physiology**

Lowenstein, O. E., DPhil *Mün., DSc Glas.,*  
PhD, FRS Mason Prof.  
Yapp, W. B., MA *Oxon.* Sr. Lectr.  
Finlayson, L. H., BSc *Glas., PhD* Sr. Lectr.  
Gibson, R. J., BSc Lectr.  
Llewellyn, J., MSc *Wales, PhD DSc* Lectr.  
Murray, R. W., MA DPhil *Oxon.* Lectr.  
Potts, W. T. W., MA PhD *Camb.* Lectr.  
Manley, Brenda M., BSc *Lond., PhD Glas.* Lectr.  
Cohen, J., BSc PhD *Hull* Lectr.  
Sladden, C. R., BSc PhD *Brist.*  
Wright, D. W., MA *Oxon.* (Radiobiol.) Lectr.  
2 Res. Fellows Recog. Lectr.

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc.,  
see above)

Dean :—Prof. A. L. d'Abreu, OBE, MB ChM,  
FRCS  
Deputy Dean :—Prof. J. R. Squire, MD MA,  
FRCP  
Chairman of Board of Graduate Studies :—  
A. G. W. Whitfield, MD PhD, FRCP

**Anæsthetics****University Clinical Lecturers**

Clarke, L. T., TD, BSc MB ChB, FFARCS †Lectr.  
Murtagh, B. L. S., MB ChB, FFARCS †Lectr.

Green, Marion W. S., MB ChB, FFARCS  
Rawlins, G. A., DSC, MB ChB, FFARCS  
Mason, Mrs. Helen S., MB ChB, FFARCS  
Mills, Margaret J., MB ChB, FFARCS  
Wall, Doris I., BSc MB ChB  
Welsh, Janet R.  
Woodward, J. W., MB ChB, FFARCS  
Guest, Ann A., MB ChB  
Inglis, J. McN., MB ChB *Leeds*, FFARCS  
Lee, R. E., MA BM BCh *Oxon.*, FFARCS  
Price, W. L., MB ChB  
Smith, B. H., MB ChB, FFARCS  
Mathews, E. T., MB ChB, FFARCS

**Bacteriology**

Shrewsbury, J. F. D., MD *Liv. & Birm.,*  
DPH Prof.  
Bisset, K. A., PhD DSc *Edin.*  
(Systematic Bacteriol.) Reader  
Laughton, Nancy, MD DPH Sr. Lectr.  
Moore, F. W., BSc *Durh.* Lectr.  
Cartwright, N. J., PhD *Sheff.*, BSc Lectr.  
Conran, M. B., MB BS *Lond.* Lectr.  
Pease, Phyllis E., PhD Lectr.  
Jeynes, M. H., BSc PhD Asst. Lectr.  
Flewett, T. H., MD *Belf.* Hon. Lectr.  
Rogers, K. B., MD *Lond.* Hon. Lectr.  
1 Res. Fellow

**Ear, Nose and Throat, Diseases of**

Strang, R. R. S., MB ChB *Glas.*, FRCS  
†Lectr. & †Clin. Lectr.  
Strong, E. C. N., LDS, FRCS  
†Lectr. & †Clin. Lectr.

**Univ. Clinical Lecturers**

Adams, W. S., MB ChB, FRCS  
Moffett, A. J., TD, MB ChB, FRCS  
Crabtree, N. L., FRCS  
Evans, R., MD *Belf.*, FRCSEd

**Sr. Clinical Tutors**

Walker, C. L., MA ChB *Manc.*, FRCSEd  
Downing, W. B. L., MB ChB, FRCSEd

**Forensic Medicine and Toxicology**

Webster, J. M., CBE, MA BSc MB  
ChB Hon. LL.D. *St.And.*, MD, FRCSEd  
Prof.

**Medical Biochemistry and Pharmacology**

Frazer, A. C., MB BS PhD DSc *Lond.*, MD,  
FRCP (Med. Biochem. & Pharmacol.) Prof.  
Schneider, R., MD, FRCP Sr. Lectr.  
Chance, M. R. A., BSc *Lond.*, PhD DSc  
Sr. Lectr.  
Finean, J. B., PhD DSc Sr. Lectr.  
Sammons, H. G., BSc PhD Lectr.  
Pover, W. F. R., BSc PhD Lectr.  
Hawthorne, J. N., BSc PhD Lectr.  
Hübscher, G., MD *Marburg*, PhD Lectr.  
McArdle, C. M. (Pharmacy) †Demr.  
Marston, A. E. (Pharmacy) †Demr.  
Cronin, J. D., BSc (Pharmacy) †Demr.  
4 Res. Fellows

**Medical Statistics**

Hogben, L., MA *Camb.*, DSc *Lond.*, MSc, FRS Prof.  
 Waterhouse, J. A. H., MA *Camb.*, PhD Reader  
 Cross, K. W., BSc PhD Sr. Statistical Officer  
 Wrighton, R. F., MA *Camb.*, PhD Lectr.  
 Gordon, C. W., MB ChB *Aberd.*, DPH †Lectr.  
 Wall, Mary, BSc *Lond.* Supervising Officer

**Medicine**

Arnott, W. M., TD, BSc *Edin.*, MD *Edin.* & *Birm.*, FRCP, FRCPEd

William Withering Prof.

Bishop, J. M., MD Sr. Lectr., First Asst.  
 Harris, P. C., MD PhD *Lond.* Sr. Lectr.  
 Cooke, W. T., MA *Camb.*, MD *Camb.* & *Birm.*, FRCP †Reader & †Clin. Lectr.  
 Crooke, A. C., MA MD *Camb.*

Hon. Reader & †Clin. Lectr.

French, J. M., PhD MD *Lond.* Hon. Reader  
 Cumming, G., BSc *Lond.*, MB ChB PhD Lectr.  
 Davidson, L. A. G., MB ChB *Edin.* Lectr.  
 Fletcher, P. F., BSc MD Lectr.  
 Whitfield, A. G. W., PhD MD, FRCP †Lectr. & †Clin. Lectr.

Davison, P. H., BSc MD, FRCP (Med. for Dent. Students) †Lectr. & †Clin. Lectr.

Hall, G. S., MD, FRCP (Neurol.) †Lectr. & †Clin. Lectr.

Jefferson, J. M., MA BSc DM *Oxon.*, FRCP (Neurol.) †Lectr. & †Clin. Lectr.

O'Reilly, J. J., MB BCh BAO *Belf.*, DPM *Lond.* (Psychol. Med.) †Lectr. & †Clin. Lectr.

Sim, M., MD DPM *Edin.* (Psychol. Med.) †Lectr. & (Psychiatry) †Clin. Lectr.

Tibbetts, R. W., MA BM BCh *Oxon.*, DPM *Lond.*

(Psychol. Med.) †Lectr. & (Psychiatry) †Clin. Lectr.

Tate, B. C., MBE, MA MD *Camb.*, FRCP (Dermatol.) †Lectr. & †Clin. Lectr.

Gaddie, R., BSc PhD *Edin.*, FRIC (Clin. Biochem.) Hon. Lectr. & †Clin. Lectr.

Chalmers, J. N. M., MD *Glas.*, FRCP Hon. Lectr. & (Pathol.) †Clin. Lectr.

Meynell, M. J., MD *Sheff.* Hon. Lectr. & (Pathol.) †Clin. Lectr.

Crane, C. W., BSc MB BS *Lond.* Hon. Lectr.

Armitage, G. H., MB ChB *Edin.*, FRCPEd Hon. Lectr.

Clark, P. R. F., MA *Oxon.* Hon. Lectr.

Thomson, Sir Arthur, MC, MD Hon. LLD, FRCP (Med. Hist.) Sr. Fellow

14 Res. Fellows

Univ. Clinical Lecturers

Brenner, O., MD, FRCP  
 Bulmer, E., CBE, TD, MD *Edin.*, FRCP, FRCPEd

Cant, W. H. P., MD *Lond.* (Pædiatrics & Child Health)

Fairburn, E. A., MD *Lond.* (Dermatol.)

Hawkins, C. F., MD *Lond.*, FRCP

Humphreys, D. R., MD

Ker, F. L., MB ChB (Infectious Dis.)

Malins, J. M., MB ChB, FRCP

Nagley, L., MD *Leeds*

Parsons, C. G., MA MD *Camb.*, FRCP

Sheldon, J. H., CBE, MD *Lond.*, FRCP

Smallwood, W. C., MD, FRCP

Taylor, A. B., MD, FRCP

Williams, G. E. O., MD *Liv.*

**Neurosurgery**

Hughes, E. B., MB BS *Lond.*, ChM, FRCS Prof.

Turner, E. A., MB ChB *Glas.*, FRCS †Lectr. & †Clin. Lectr.

Small, J. M., MB ChB, FRCS Univ. Clin. Lectr.

**Obstetrics and Gynæcology**

McLaren, H. C., MD *Glas.*, FRCSEd,

FRFPGlas, FRCOG Prof.

Little, E. M., MB ChB, FRCSEd Lectr.

Taylor, C. W., MB ChB, FRCOG Hon. Member of Staff

†Lectrs. and †Univ. Clinical Lectrs.

Tait, F. S., MB ChB, FRCS

Davidson, S., AFC, MB ChB *Edin.*, FRCSEd, FRCOG

Deacon, A. L., FRCSEd, FRCOG

Mills, W. G., MB ChB, FRCS, FRCOG

Shotton, Dorothy M., MB ChB

Roberts, H., MD *Liv.*, FRCSEd

Univ. Clinical Lecturers

Dobbie, Mrs. Beatrice M. W., MA MB BChir DMRE *Camb.*, FRCS

Dougray, T., MB ChB *Glas.*

Ganner, P. J., BS *Lond.*, FRCOG, FRCS

Hallum, Jean, MB ChB DCH

Lester, G. S., MB ChB, FRCSEd

Park, L. M., MB ChB, FRCS

Taylor, W. A., MD *Dub.*, FRCSI, FRCOG

Sr. Clinical Tutors

Cope, E., MD *Leeds*

Mitchell, G., MB ChB, FRCSEd

Duval, H. R., MD CM *Qu.*, FRCSEd

Fisher, H. J., MB ChB *Wales*, FRCSEd

Noble, M. J. D., MB ChB *Edin.*, FRCSEd

Parker, R. B., MB ChB *Edin.*

**Ophthalmology**

Evans, L. P. J., MA MD *Camb.*, FRCS

†Lectr. & †Clin. Lectr.

Univ. Clinical Lecturers

Butler, R. D. W., BA *Camb.*

Walker, W. M., BSc MB ChB *St. And.*, FRCS

Roper-Hall, M. J., MB ChM, FRCS

Sr. Clinical Tutors

Crews, S. J., MA MB BChir *Camb.*, FRCSEd

Rubinstein, K., MD *Beirut*, FRCSEd

Springett, V. H., MD *London*. (TB) † Lectr.  
I Res. Fellow

**Surgery**

- Stammers, F. A. R., CBE, TD, BSc MB ChM, FRCS Prof.  
 d'Abreu, A. L., OBE, MB ChM, FRCS (Cardiac S.) Prof., †Clin. Lectr.  
 Brooke, B. N., MChir *Camb.*, MD, FRCS Reader, First Asst.  
 Slaney, G., MS *Ill.*, MB ChB, FRCS Sr. Lectr.  
 Ashton, F., MB ChM, FRCS Lectr.  
 Williams, J. A., MB ChB, FRCS Lectr.  
 Walker, F. C., MB ChB, FRCS Lectr.  
 Collis, J. L., BSc MD, FRCS †Lectr. & †Clin. Lectr.  
 Baines, G. H., MA MB BChir *Camb.*, FRCS †Clin. Lectr.  
 Donovan, T. S., MChOrth *Liv.*, MB ChB, FRCS, FRCSEd (Orthop. S.) †Lectr. & †Clin. Lectr.  
 Innes, A., MBE, MA BChir *Camb.*, FRCS †Lectr. & †Clin. Lectr.  
 Gourevitch, A., MC, MB ChB, FRCS †Lectr. & †Clin. Lectr.  
 Morrissey, D. M., MCh N.U.I., FRCS, FRCSEd †Lectr. & †Clin. Lectr.  
 Brookes, V. S., MB ChB, FRCS †Lectr. & †Clin. Lectr.  
 Dawson-Edwards, P., MB ChB, FRCS †Lectr. & †Clin. Lectr.  
 1 Res. Fellow

**Univ. Clinical Lecturers**

- Allan, F. G., MB BS *Lond.*, FRCS  
 Debenham, R. K., CBE, MA MD *Camb.*, FRCS  
 Edwards, J. A. C., MB BS *Lond.*, FRCS  
 Fulford, J. C., MB ChB, FRCS  
 Gissane, W., MB ChM *Syd.*, FRCS, FRCSEd  
 Harrison, M. H. M., ChM *Leeds*, FRCS  
 Hendry, A. M., MB ChB *Aberd.*, FRCSEd  
 Mansfield, O. T., FRCS (Plastic S.)  
 Patrick, V., BChir *Camb.*, FRCS  
 Watson, A. B., MB ChM, FRCS  
 Welsh, F., BSc MB ChB, FRCS  
 Abrams, L. D., MB ChB, FRCS

**Sr. Clinical Tutor**

- Scruse, W. H., MB ChB MChOrth *Liv.*, FRCSEd (Orthop. S.)

**Therapeutics**, see Med. Biochem.

**EDWARD CADBURY LECTURER  
IN THEOLOGY**

1960-61—Canon A. Richardson, MA DD

**INGLEBY LECTURER  
(Appointed biennially)**

1959-60—Prof. Sir Dugald Baird, BSc MD DPH *Glas.*, FRCOG

**SIR JOSIAH MASON LECTURER**

1959-60—Joan Robinson, MA, FBA

**MUIRHEAD LECTURER**

(Appointed biennially)

1959-60—No lectures arranged

**LEONARD PARSONS LECTURER**

(Appointed biennially)

1959-60—Prof. L. Wilkins, MD

**WILLIAM WITHERING LECTURER**

(Appointed biennially)

1959-60—Prof. J. Z. Young, MA *Oxon.*, DSc *Brist.*, FRS

**INSTITUTE OF EDUCATION**

Jeffreys, M. V. C., CBE, MA *Oxon.* & *Birm.*  
 Prof. of Educn., Dir. of Inst.

**Administration**

- Payne, Ethel R., MSc *Wales* Warden Tutor of Inst.  
 Berry, W. A. C., TD, MA *Oxon.* Sec. of Inst.  
 Gomm, G., BA *Oxon.*, FLA Librarian  
 Axford, Wendy A., MA *Camb.* Asst. Librarian  
 Burden, Muriel I., BA *Lond.*  
 (Services to Teachers) Inst. Tutor

**Research Department**

- Peel, E. A., BSc *Leeds*, PhD MA *Lond.*  
 Prof. of Educn., Hd. of Dept. & of  
 Dept. of Child Study  
 Pringle, Mrs. Mia L. Kellmer, BA PhD *Lond.*  
 Dep. Hd. of Dept. of Child Study  
 Burroughs, G. E. R., BSc *Lond.*, PhD Lectr.  
 Curr, W., MA EdB *Glas.* Lectr.  
 Beard, Ruth M., MSc MA PhD *Lond.* Lectr.  
 Gulliford, R., BA *Lond.* Lectr.  
 Gurland, Ingeborg, PhD *Bonn* Lectr.  
 Phillips, C. J., BA *Lond.* Lectr.  
 Williams, Myfanwy, DipEdPsych *Lond.* Lectr.  
 Wills, Mrs. Vera W., DipSocStud *Lond.* Lectr.  
 4 Res. Fellows

**DEPARTMENT OF EXTRA-MURAL  
STUDIES**

- Parker, A. M., MA *Oxon.*  
 Sec., Bd. of Adult Educn., Dir. of Dept.  
 Rundle Clark, R. T., MA *Oxon.* Sr. Staff Tutor  
 Senior Lecturers  
 Mellers, W., MA BMus *Camb.* (Music)  
 Pilgrim, J. E., MA *Lond.* (Hist.) [N. Shrops.]  
 Webster, G., MA *Manc.* (Archaeol.)

**Lecturers**

- Brinkworth, E. R. C., BLitt *Oxon.*, MA  
 (Archives Studies) [S. Warwicks.]  
 Cope, G., MSc (Theol.)  
 Evans, G. L., BA *Wales* (Engl. Lit.)  
 Gooder, A., BA PhD *Leeds*  
 (Hist.) [Coventry & Dist.]  
 Gray, D. E., BA (Hist.) [E. Birmingham]  
 Grutter, Alice M., MA *Oxon.*  
 (Engl. Lit.) [S.E. Staffs.]

McNair, D., BA *Durh.*

(Sociol.) [N. & W. Worcs.]

Minkes, A. L., MA *Oxon.*

(Econ.)

Nicklin, Phyllis A., MA

(Geog.)

Pickvance, T. J., MA *Oxon.*, BSc *R'dg.*

(Biol. Sci.)

Pleydell-Pearce, A. G., BA *Brist.*

(Philos.) [Wolverhampton & Dist.]

Pritchard, E. P., BA *Lond.*, FLA

(Govt.) Librarian

Richardson, E. W. M., MA *Oxon.*

(Internat. Affairs) [S. & E. Worcs.]

Rix, M. M., MA *Oxon.*

(Archit. Hist.)

Russell, C.

(Fine Arts)

Sawers, R., MA *Oxon.*

(Philos.)

Stanford, S. C., BA *Lond.*

[Herefords.]

Stopes-Roe, H. V., MSc PhD *Camb.*

(Phys. Sci.)

Taylor, P. A. M., MA PhD *Camb.*

(American Studies) [Dudley & Distr.]

Nuttall, C. S., BA *Wales* (Econ.) [H.M. Forces]

## ADMINISTRATIVE AND OTHER STAFF

REGISTRY. Asst. Registrars: C. Snead, MCom; C. Brackwell, MA; E. Fox, MA *Manc.*; A. D. Linfoot, BA *Durh. & Camb.*; M. A. Baatz, MA *Oxon.*

SECRETARY'S DEPT. Asst. Secs.: P. R. Burton, MC; F. C. Ott, DSC, BSc(Econ) *Lond.*; A. H. Skene. Accountant: W. D. Twist.

LIBRARY. Deputy Librarian: B. M. Bland, MCom. Sub-Librarians: H. B. Evans, MA; Margaret P. Russell, MA *Edin.* Asst. Librarians: H. A. Howes, BA; J. H. Keegan, MA; P. Morgan, MA, FSA; D. B. Butler, BA *Oxon.*

MEDICAL OFFICER: R. H. Bolton, BA BM BCH *Oxon.*; Asst. Med. Officer: J. C. Bowie, MB ChB *Aberd.* Univ. Dental Officer: H. Nordan, LDS. Asst. Dental Officer: D. B. Wells, LDS.

APPOINTMENTS BOARD. Sec.: P. C. Hordern, AFC, MA *Oxon.* Asst. Secs.: W. R. H. Batty, BSc; B. J. Wicker, MA; T. Sanderson, BSc *Manc.*

DEPT. OF EXTRA-MURAL STUDIES. Sec.: N. H. B. Connor, MA *Oxon.* Staff Tutor & Librarian: E. P. Pritchard, BA *Lond.*, FLA.

LODGINGS WARDEN. Edith M. Teverson, BSc *Brist.*

GUILD OF UNDERGRADUATES. Warden: Prof. H. F. Humphreys, CBE, MC, TD, MB ChB MDS LLD, FDSRCS, FSA. Pres. (1960-61): E. A. Goss; Permanent Sec.: R. T. Jones.

WARDENS OF HALLS OF RESIDENCE. Women Students: Mrs. Julia Friend (University House); Men Students: P. C. Hordern, AFC, MA *Oxon.* (Chancellor's Hall); R. J. Gibson, BSc (Chad Hill); C. E. Harrold, BSc *Lond.*, PhD *Camb.* (The Manor House).

UNIV. TRAINING CORPS (T.A.). C.O.: Lt.-Col. R. J. Gibson, TD.

UNIV. AIR SQUADRON. C.O.: Sqn. Ldr. J. D. Cotter, DFC.

## GENERAL INFORMATION

Mason Science Coll., founded in 1880 by Sir Josiah Mason, was renamed Mason Coll. in 1892 when it merged with the med. fac. of Queen's Coll. In 1894 the Birmingham Training Coll. for teachers in elementary schs. was transferred to Mason Coll., which was incorporated by act of parliament 3 yrs. later as 'The Mason Univ. Coll.'. This instn. was absorbed in the Univ. of Birmingham, incorporated by royal charter in 1900. The univ. had then a staff of 70 and 678 students of whom only 189 were registered undergrads.

Considerable addns. to bldgs. and facilities were made from 1900 to 1913 and between 1926 and 1939, and nos. of undergrads. increased steadily. In June 1939 the academic staff numbered 159 and there were 1469 full-time students. During the war of 1939-45 devel. continued and a considerable contribution was made to the war effort by res. conducted at the univ. From 1946 to 1959 expansion both in bldgs. and numbers proceeded at such a rate that in Oct. 1959 there was an academic staff of 548 and 4094 full-time students registered for courses during the 1959-60 session.

UNIVERSITY PRECINCT. The bldgs. of the univ. are at Edgbaston, about 3 mls. from the centre of Birmingham, on a site which now covers nearly 240 acres. The first bldgs. at Edgbaston were completed in 1909.

Bldgs. for arts, maths./phys., chem., civil engin., and law, together with an extension to the students' union, were opened in 1960. A new refectory and staff house were started in 1959 for completion in mid-1961, and a new bldg. for biol. scis. was started in 1960.

The new phys. educn. centre and a large hall of res. are to be started in 1960, and a new bldg. for comm. & soc. sci. will be started in 1961. Accommod. for mining and minerals engin. is to be extended, and new accomm. is to be provided at Edgbaston for educn. Further extension of the clin. res. annexe is to be started in 1960.

CONSTITUTION. The governing body of the univ. is the court of governors (presided over by the chancellor), whose executive cttee. is the council, which submits an annual report to the court; the senate, which consists of the vice-chancellor and principal, vice-principal, deans of



all facs. and all profs., regulates academic matters and its activities are subject to review by council. The pro-chancellor presides over the council and the vice-chancellor over the senate. There are 5 facs., presided over by the deans, which have their own advisory bds. and ctees. The delegacy of the inst. of educn. reports direct to senate.

**INCOME (1958-59).** Total income, £2,290,210 (endowment, donations and subscriptions, £135,786; grants from local authorities, £65,016; parliamentary grants, £1,645,751; students' fees, £219,749; contributions for services of staff, etc., £6594; research grants, etc., £216,481; other income, £9833).

**FACULTIES AND DEANS (1960-61).** *Arts*, Prof. D. R. Dudley (Latin); *comm. & soc. sci.*, Prof. T. W. Hutchison (econ.); *law*, Prof. O. Hood Phillips (jurisp.); *med.*, Prof. A. L. d'Abreu (cardiac surg.); *sci.*, Prof. S. G. Ward (mining & minerals engin.).

**LIBRARY.** About 500,000 vols., incl. Barnes lib. (med. sch.), 70,000 vols.; Harding law lib., 10,000 vols.; music lib. (Barber Inst.), 35,000 items; other sections in depts. of bot., biochem., geol., Russian econ. and mining. The fine arts lib. is part of the Barber Inst. *Special features*: papers of Joseph Chamberlain and Sir Austen Chamberlain, Wedgwood philol. lib., Wigan lib. of 17th- and 18th-cent. theol. works, lib. of St. Mary's Church, Warwick, and Baskerville collection.

**MUSEUMS.** Anat., dent., geol., mining, pathol., physiol., zool.; herbarium (bot.).

**LABORATORIES.** Chem. (special org., phys., electro-chem., analyt. and pub. health depts.); phys. (incl. electron phys.), biol., genetics, engin. (incl. electr., mech., prodn., civ. and chem.), metall. (phys. and indust.), mining & minerals engin. (exceptionally well equipped, exper. coal-mine), malt. & brew.; biochem.; anat.; physiol.; pathol.; cancer res.; pharmacol.; bacteriol.; power-station supplying whole univ. with lighting, heat and power. A small **OBSERVATORY** is attached to the dept. of phys. **HOSPITALS** recog. for clin. instructn.—United Birmingham H. (General, Q. Elizabeth, Birmingham and Midland Hosps. for Women, Children's, Nerve and Dental) and 14 other hosps. for sp. teaching, under the control of the Birmingham Regional Hosp. Bd.

**BARBER INSTITUTE OF FINE ARTS**, Edgbaston, Birmingham, 13 (tel.: Selly Oak 0962; music dept.: Selly Oak 0622). The inst. was founded by the late Dame Martha C. H. Barber, who created a trust to promote the study of the fine arts and of music in the univ. Courses in fine arts are given for the cultural benefit of all students, and in some cases form pt. of work required for degrees in other depts. Concerts of chamber music are arranged by the prof. of music, and the univ. musical soc. holds midday concerts during term. The inst. contains several galleries and rooms for the exhibition of paintings, drawings,

prints, furniture, art-objects and tapestries; a small concert hall; and libraries and admin. offices. (For dir., see p. 827).

**INSTITUTE OF CHILD HEALTH.** The Nuffield Provincial Hospitals Trust has agreed to provide an inst. which will be completed in 1960. The inst. co-ordinates the activities of the univ. dept. of paediatrics & child health, the Birmingham Children's Hosp., the Birmingham maternity & child welfare and sch. health services, and the coll. of General Practitioners. Principal functions are undergrad. and postgrad. teaching, paediatric res. and liaison with local authority med. officers and general practitioners.

**SHAKESPEARE INSTITUTE**, Stratford-upon-Avon, Warwickshire (tel.: Stratford-upon-Avon 3138). The purpose of the inst. is primarily to encourage and promote advanced work in Shakespearian studies and in related subjs.—the Elizabethan age, drama and theatre. See also pp. 829-830.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). The inst. exists primarily to co-ordinate the training of teachers in the W. Midlands area under the general responsibility of the univ., and to recommend to the Ministry of Educn. for qualification those students who have satisfactorily completed their training. A cert. in educn. is granted to students after 1-yr., 2-yr. and 3-yr. courses of trg. A 1-yr. full-time or 3-yr. pt.-time course for dipl. in educn. has been instituted, and is open to qualified teachers with not less than 5 yrs.' approved professional experience. A supplementary cert. is offered to candidates who successfully complete 1-yr. full-time supplementary courses. The inst. also offers courses in youth service (2 yrs. full-time) & sch. librarianship (2 yrs. pt.-time).

The inst. maintains a strong res. dept., the staff of which are members of the univ. educn. dept. The res. dept. is situated at Selly Wick House, Selly Wick Rd., Birmingham, 29, and includes a dept. of child study. The inst. publishes a journal, *Educational Review*, 3 times a yr. The governing body of the inst. is the delegacy, which is responsible to senate.

Constituent and associated colls. of the inst. (a) *Constituent colls.*: Anstey Coll. of Phys. Educn., Sutton Coldfield; City of Birmingham Coll. of Art and Crafts, Margaret St., Birmingham, 3; City of Birmingham Trg. Coll., Westbourne Rd., Birmingham, 15; City of Coventry Trg. Coll., Charter Ave., Coventry; Dudley Trg. Coll., Castle View, Dudley; Hereford Trg. Coll., Hereford; Malayan Teachers Coll., Brinsford Lodge, Wolverhampton; St. Paul's Trg. Coll., Newbold Revel, Stretton-under-Fosse, nr. Rugby; Saltley Trg. Coll., Birmingham, 8; Shenstone Trg. Coll., nr. Kidderminster; Shropshire Coll. of Domestic Science and Dairywork, Radbrook, Shrewsbury; County of Stafford Trg. Coll., Nelson Hall, Stafford; Westhill Trg. Coll., Selly Oak, Birmingham, 29; City of Worcester Trg. Coll., Henwick Grove, Worcester; Dept. of Education, The University, Birmingham. (b)

*Associated Colls.*: Birmingham and Midland Institute Sch. of Music, Paradise St., Birmingham, 1; William Temple Coll., Rugby; Wolverhampton & Staffordshire Coll. of Technol.

The Inst.'s headquarters are at Institute House, 50 Wellington Rd., Edgbaston, Birmingham, 15 (tel.: Calthorpe 2332).

INSTITUTE FOR ENGINEERING PRODUCTION, Southfield, Norfolk Rd., Edgbaston, Birmingham, 16 (tel.: Edgbaston 0390). The inst., which is under the direction of the hd. of the dept. of engin. production, was opened in 1953, and provides a series of short courses of study and discussions on a residential basis for sr. production engineers and indust. managers. *See also* p. 829.

ADMISSION. *See* Appendix II.

NON-MEMBERS OF THE UNIVERSITY. Occasional students, who are not matriculated or of grad. status, who wish to enter the univ. for the purpose of attending individual courses, must supply evidence, satisfactory to the dean of the fac. and the hd. of the dept., that they are qualified to enter upon such courses. Such students will be subject to the univ. regns., but are not entitled to wear academic dress.

FIRST DEGREES. 3 yrs.—BA (spec.), BA (combined subjs.), BSc in pure sci., BSc in appl. sci., BCom, BSocSc, LLB; 3 or 4 yrs. according to qualifs. on entry—BMus; 5½ yrs.—BDS; 6 yrs.—MB ChB.

Candidates who do not reach the required standard for an hon. degree in any fac. may qualify for an ord. degree.

BA with hon. may be obtained in any one of the following sp. schs.: classics, Latin, Greek, anc. hist. & archæol., anc. & mediæv. hist., mediæv. & mod. hist., Engl., French, German, Italian, Russian, Spanish, philos., soc. & polit. philos., maths., geog., theol., linguistics. Hon. may also be obtained in the exam. for the BA degree in combined subjects.

BSc hon. in pure sci. may be taken in any of the hon. schs. in maths., mathl. phys., phys., chem., zool., bot., genetics, bacteriol., geol., geog., anatomical studies, physiological studies, medical biochemical studies. BSc hon. in appl. sci. may be taken in engin. (mech., civil, electr., chem., petroleum, prodn.), metall. (phys. or indust.), mining (coal or metal) and biochem. Courses in mining involve practical work underground.

Candidates who, before admission, pass certain exams. of other approved univs. in sci. or engin., may be permitted to take the final exam. for the BSc (hon.) at the end of their 2nd yr., and to do advanced or res. work in their 3rd yr.

Subject to certain provisos, grads. of Oxford with hon. in the final hon. sch. of nat. sci. (engin. sci.) or of Cambridge with 1st or 2nd class in mech. scis. tripos are eligible for the BSc degree in mining after 2 yrs.' study at Birmingham; suitable engin. grads. of other approved univs. are also eligible for the degree under similar conditions.

*Prelim. science year.* There are sp. arrange-

ments whereby candidates who have taken arts subjs. as their main subjs. at sch. may obtain a univ. trg. in the scis. Consideration for admission to this 1st yr. (of a 4-yr. degree course) may also be given to candidates from schs. where the facilities for teaching sci. are limited.

BCom with hon.: (a) general course, (b) sch. of Russian studies, (c) for qualified sci. students.

BSocSc with hon. in schs. of econ., pol. & sociol.; soc. study; Russian studies; maths., econ. & statistics; geog.

Med. students may spend their 1st yr. at any sch. or schs. of med. recog. by the univ., and the senate may recognize exams. passed therein as exempting from the 1st med. exam. They may obtain the BSc as well as their med. degrees by devoting 7 yrs. instead of 6 to study in the univ.

HIGHER DEGREES. MA (by thesis resulting from res., or by prescribed course of study and exam.), MEd (1 yr. full-time or 3 yrs. pt-time prescribed course, exam. and thesis), MCom, MSocSc (by prescribed course of study and exam.), MMus, 1 or 2 yrs. after bachelor's degree; MSc (may be taken in appl. geophys., electr. machinery, radioactivity, radiobiol., thermodynamics, coal preparation, reactor phys. & technol., foundation engin. & highway engin., information engin., operational res., biol. engin., as well as in other sci. subjects), 1 yr. after BSc hon. or 2 yrs. after BSc in sci.; several depts. provide courses of study and exams. (as distinct from res. facilities) for MSc; LLM, 2 yrs. (exceptionally, 1 yr.) after LLB; BD, not less than 2 yrs. after a bachelor's degree approved by the fac. of arts; MD, ChM, MDS, 5 yrs. after bachelor's degree; PhD (in any fac.), 2 yrs.; DLitt, DMus, DSc, LLD, DD.

The DMus or LLD may be taken 3 yrs. (DLitt 5 yrs.) after the MA, MMus, MSc or LLM, or 5 yrs. (DLitt 7 yrs.) after the corresp. bachelor's degree; DSc, 4 yrs. after MSc, or 3 yrs. after PhD, whichever time is shorter; grads. of other approved univs. after not less than 2 yrs.' postgrad. work in this univ. provided that at time work is submitted for degree they are at least of 5 yrs.' standing from bachelor's degree; DD, 5 yrs. from date of BD or other second degree.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. Theology, normally 2 yrs. for grads. of approved univs.; education, 1 yr. full-time or 2 yrs. pt-time; psychol. of childhood, 1 yr. for grads. and other approved persons; educnl. psychol., 1 yr. postgrad., for grads. of approved univs. who have obtained BA or BSc hon. in psychol. or who have pursued approved courses in psychol. and who have had not less than 1 yr.' teaching experience; for teachers of educationally sub-normal children, 1 yr.; commerce, 1 yr. for grads. of approved univs. subject to approval by fac.; pub. admin., 1 yr. for grads. (in any fac.) of univs. in the United Kingdom; soc. study, 1 yr. for grads. preparing for work in the soc. services; soc. work, 1 yr. for grads.; malting & brewing, 3 yrs., grads., 1 yr.; engin.

production & management principles, 1 yr. postgrad. course; dipl. in grad. studies; biol. engin. (1 yr.); chem. engin. (1 or 2 yrs.); indust. metall. (1 yr.); thermodynamics & related studies (1 yr.); mathl. phys. (1 yr.); civil engin., foundation engin. & highway engin. (1 yr.); mathl. statistics (1 yr.); electr. engin. (information engin. & electr. machin.) (1 yr.); mining (1 yr.).

**CERTIFICATES.** Education (1-yr. postgrad. and 2-yr. non-grad. courses), malting & brewing (2 yrs.), malting (2 yrs.); soc. study (2 yrs. for non-grads.); child service (1-yr. course to train suitably qualified persons as children's officers and their assts.); supplementary certs. in divinity, local studies and for teachers of blind children (1-yr. courses). *See also* Institute of Education, *above*.

**RESEARCH.** A jt. standing cttee. of senate and council co-ordinates res. work in all facs., formulates policies of res., obtains funds and co-operates with govt. agencies and external bodies. *Annual Report* gives general summary of each yr.'s deptl. res., lists publ. work and titles of theses approved for higher degrees.

**STUDY LEAVE** is given as frequently as possible, usually for 1 term.

**FEES.** *Composite annual fees* (covering tuition, exam. and graduation fees, and membership of guild of undergrads.). Bachelor's degrees: BA and BMus, £56; BD, £42; BSc, £66; MB ChB, £66; BDS, £66 (6th yr., 1 term: £22); BCom and BSocSc, £56; LLB, £56. Higher degrees: MA, MMus, MCom, MSocSc, LL.M, MSc (without lab. facilities), £42; MSc (with lab. facilities) and MSc (grad. studies except in engin. prodn. & radiobiol.), £81; MSc (grad. studies: engin. prodn. & radiobiol.), £95; PhD (without lab. facilities), £42; PhD (with lab. facilities), £81. Dipls. and certs.: dipl. in theol., 1st yr.—£34, 2nd yr.—£6; dipl. in psychol. of childhood, £51; dipl. in educnl. psychol., £66; dipl. for teachers of educationally sub-normal children, £58; dipl. in engin. prodn. & management principles, £95; dipl. in grad. studies, £81; dipl. in mathl. phys., £58; dipl. in malting & brewing, £54; postgrad. dipl. in malting & brewing, £54; cert. in malting & brewing, £54; cert. in malting, £54; graduates' commerce dipl., £41; dipl. in pub. admin., £41; soc. study dipl., separate class fees with an addtnl. charge of £7:5s.; soc. study cert., £36; child service cert., £66; dipl. in soc. work, £70; cert. in educn., £60; dipl. in educn., £42; supplementary certs. in divinity, £51; in local studies, £60; for teachers of blind children, £70; and in maths., £31.

**VACATION COURSES.** A 6 wks.' summer sch. on Shakespeare and Elizabethan lit. is held annually at Stratford-upon-Avon during July and Aug. It is concerned with the detailed study of Elizabethan and Jacobean drama and theatre with particular reference to Shakespeare, together with the historical and cultural background of the plays. The

summer sch. is primarily intended for grads. and other advanced students from British, American and European univs. who have specialized in Elizabethan and Jacobean lit. The dept. of extra-mural studies also possesses its own archaeol. centre based on work at the Roman city of Viroconium nr. Shrewsbury; during the summer a no. of residential courses in excavation techniques and ancillary subjs. are held. Other courses are arranged at Attingham Park and Westham House, the 2 residential colls. for adult educn. in the W. Midlands. An annual summer sch. is also held, in England or on the continent, in conjunction with the W.E.A., usually during the first 2 wks. in Aug. Study tours are arranged annually.

**UNIVERSITY BOARD OF ADULT EDUCATION** (*see also* 'Teaching Staff', *above*). The bd. supervises all the extra-mural work of the univ. Univ. extension courses, tutorial, sessional and short courses, summer schs. and other residential courses are held in Birmingham and at centres throughout the W. Midlands. There is a jt. cttee. for work with the W.E.A., and another for services educn.

**POSTGRADUATE AWARDS** open to grads. of other univs.: *see p.* 825.

**RESIDENCE.** (For wardens, *see* 'Admin. and Other Staff', *above*.) For women: Univ. House, Edgbaston Park Rd., Birmingham, 15 (tel.: Sel. 0115) (155 students); fees: £135:12s.:6d. to £147:5s. per session. For men: Chancellor's Hall, Augustus Rd., Edgbaston, Birmingham, 15 (tel.: Edg. 2464) (130 students); fees: £147:5s. with rebate to those sharing rooms. Chad Hill, 125 Harborne Rd., Birmingham, 15 (tel.: Edg. 0155) (32 students), mainly intended for grad. and res. students; fees: from £4:5s. to £4:19s. per wk., plus small extras. The Manor House, Bristol Rd. South, Birmingham, 31 (tel.: Pri. 1638) (150 students); fees: £4:7s.:6d. to £4:15s. per wk., plus small extras.

**APPOINTMENTS BOARD.** (For officers, *see* 'Admin. and Other Staff', *above*.) The functions of the bd. are to provide information and advice on careers and to assist grads. of the univ. to obtain suitable employment. The services of the bd. are available without charge to all grads. and undergrads. of the univ. *Postal Addresses:* (sec.), The Univ., Birmingham, 15; tel.: Selly Oak 1301.

**GUILD OF GRADUATES.** The guild is entitled to appoint one rep. for every 250 of its members to serve on the univ. court of governors, the present number of reps. being 31. One rep. of the guild is a member of the univ. council. A *News-letter* is circulated annually to all members.

**UNIVERSITY OF BIRMINGHAM OFFICERS TRAINING CORPS.** Cadets may join for various periods of service which are flexible to enable them to undertake trg. without interfering with their univ. degree course. The contingent comprises the following sub-units: Royal Signals, Infantry, Royal Electrical and Mechanical Engineers.

Minimum trg. obligations are laid down for each yr. Suitable cadets may be recommended to War Office Selection Bd. Further information from the adjutant, U. of Birm. O.T.C., Edgbaston, Birmingham, 15 (tel.: Selly Oak 0249).

**UNIVERSITY OF BIRMINGHAM AIR SQUADRON.** The purpose of the U.A.S. is to provide facilities for the trg. of internal male members of the univ. who wish to prepare themselves for commissioned service in the R.A.F., the Royal Navy, the R.A.F. auxiliary and reserve forces, the air branch of the R.N.V.R., or in the regular or auxiliary air forces of the Commonwealth. Further information from the C.O., Univ. Air Squadron, The Univ., Edgbaston, Birmingham, 15 (tel.: Edgbaston 4053).

**UNIVERSITY HEALTH SERVICE.** The purpose of this service, which is administered by a full-time univ. medical officer with one full-time asst. med. officer and two dent. surgeons, is to reassure students about the state of their health, to offer them opportunities for maintaining and improving it, and to help to secure early treatment for any disorders which may occur. All freshmen, excepting those eligible for exemption under the regns., are required to attend for a routine med. overhaul and to have a chest X-ray; the X-ray is repeated annually. Ophthalmic treatment under the national health scheme is also available.

**GUILD OF UNDERGRADUATES.** The guild, establd. under charter of univ., is the organized assocn. of the undergrads. for furtherance of their common interests, recog. by court, council and senate of univ. for this purpose; represented by 3 members on court of governors. Income of guild, derived from membership fees, is applied to upkeep of the union, univ. guild club and univ. athletic union. There is full, assoc., external and hon. life membership.

**UNION AND UNIVERSITY GUILD CLUB.** All members of guild of undergrads. are entitled to use of the union, which adjoins the univ. bldgs. at Edgbaston.

**UNIVERSITY ATHLETIC UNION.** Membership of union open to full and assoc. members of guild of undergrads. provided they are amateurs. The union includes following clubs: *For men*: assocn. and rugby football, boxing, cycle-racing, golf, rowing, cross country running. *For women*: lacrosse, netball. *For men and women*: athletics, basketball, badminton, cricket, hockey, judo,

tennis, swimming, table tennis, sailing, squash racquets, fencing, gymnastics, rifle. Extensive grounds, with pavilions, are at the service of the athletic union.

**UNIVERSITY STAFF CLUB,** Westmere, Edgbaston Park Rd., Edgbaston, Birmingham, 15 (tel.: Edgbaston 0290).

**PUBLICATIONS.\*** (A) *Official*.—Charter of Incorporation; Ordinances; Report of the proceedings of the Council of the Univ. (a); Report of the Vice-Chancellor and Principal to the Council (a); Accounts (a); Fees; Univ. of Birm. Gazette (7 issues p.a.); Calendar (a); Fac. syllabuses & Information pamphlets (a); Exam. papers (a) of each fac. and of Inst. of Educn.; Scholp. pamphlet (a); Register of degrees (1900-35; 1936-47, o/p.; 1948-56; 1956-59); Proceedings at a congregation of the Univ. (June and Dec.); Annual sermon delivered at Univ. service (a); Report of Jt. Standing Cttee. for Res. (a); Appts. Bd. report (a); Librarian's report (a); Univ. Library: Introduction and library regulations (a); Report of Dir. of Barber Inst. (a), of Barber Prof. of Music, of Bd. of Adult Educn. (a), of Inst. of Educn., 1947-50, from 1951 onwards (a). (B) *Periodicals and Monograph Series*.—Birm. Univ. Historical Jnl., 12s. 6d. (a); Bulletins on Soviet Econ. Devel. (q); Educnl. Review, 5s. (a); Engl. and Germanic Studies (17s. 6d.); Fac. of Comm. Monographs and Studies in Econ. and Soc. (irregular) (15s. each); Shakespeare Survey, £1: 1s. (a). (C) *Guild of Grads*.—Grads.' News-letter (a); Med. Grads.' News-letter (a); Register of Grads. up to 1957. (D) *Guild of Undergrads*.—Annual Report; Diary (a); Guild News (weekly in term); The Mermaid (2/a); Carnival Magazine (a). (E) *Student Societies*.—Birm. Univ. Chem. Engineer, 3 issues p.a. (6s. p.a.); Mining Technical Magazine (a); Queen's Med. Magazine (each term); Holdsworth Club, Presidential address (a). (F) *Histories*.—Souvenir History of the Foundation and Development of the Mason Science Coll. and the Univ. of Birmingham, 1880-1930, by Prof. F. W. Burstall and C. G. Burton (1930); The Med. Sch. of the Univ. of Birmingham, by S. Barnes (1938); The Univ. of Birmingham, a short history by Emer. Prof. A. M. D. Hughes (1950); The Univ. of Birmingham, its History and Significance, by E. W. Vincent and P. Hinton (1947).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Appeal for halls of residence, £1,000,000; Kenward Trust for fellowship in engin. producn., £24,800; estate of Lord Perry, for site devel., £15,000.

(Total value of all benefactions received: £1,100,000.)

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: univ. library; med. sch. library; clin.

res. annexe for med. & surg.; maths./phys. bldg. stage I; council & senate room. *Approaching completion*: arts fac. bldg.; law fac. bldg.; deptl. bldgs.: civil engin., chem., maths./phys. stage II; students' union extension.

**NEW DEPARTMENTS AND CHAIRS.** Dept. & chair of social policy & admin.; dept. & chair of

\* Abbreviations: (a)—annual; (q)—quarterly; (2/a)—twice annually

biochem.; chair of highway & traffic engin.; chair of analyt. chem.; chair of cardiac surg. Personal chairs: org. chem. (Dr. J. C. Tatlow); Lucas chair of engin. produc. (Dr. N. A. Dudley); Chance chair of mech. engin. (Dr. S. A. Tobias); mathl./phys. (Dr. G. E. Brown).

**RETIREMENTS.** Prof. G. F. Mucklow (mech. engin.); Prof. Sir Arthur Thomson (therapeutics, vice-principal).

**RESIGNATIONS.** Dr. G. H. Armitage (med.), apptd. consultant psychiatrist, Burton-on-Trent hosp. gp.; Dr. G. J. Butland (geog.), apptd. to chair of geog., N.E.; J. Butler (med.), apptd. lectr. in med., Manc.; Dr. W. Carnegie (mech. engin.), apptd. hd. mech. & civil engin., Battersea Coll. of Technol.; D. C. Colley (phys.), res. Nevis cyclotr. lab., N.Y.; Dr. K. W. Donald (med.), apptd. to chair of med., Edin.; Dr. G. Gregory (inst. of engin. produc.); P. C. McIntosh (phys. educn.), apptd. sr. inspector, L.C.C.; Dr. J. Mannam (mech. engin.), apptd. sr. lectr., Adel.; W. Marsh (dent. surg.), apptd. consultant, Leeds regional hosp. gp.; Dr. A. R. Peacocke (microbiol.), apptd. demr., dept. of biochem., Oxford; Mrs. N. Pearson (educn.); Dr. F. J. Pepper (zool.), apptd. res. Med. Res. Council, at B'ham.; A. J. H. Rains (surg.), apptd. to chair of surg., Charing Cross Hosp. Med. Sch.; Dr. W. J. Rees (bot.); Dr. G. B. Shaw (med. biochem. & pharm.), res. in industry; R. W. Snell (chem. engin.), apptd. prof., Indian sch. of mines & appl. geol.; Dr. S. H. Taylor (med.), apptd. lectr. in med., Edin.; Dr. J. H. Turnbull (chem.), apptd. assoc. prof., R.M.C. Shrivenham; Dr. D. H. Whiffen (chem.), apptd. principal scientific officer, Nat. Phys. Lab., Teddington; D. H. White (phys.), apptd. lectr. in phys., Penn.; Dr. J. Wilcock (indust. metall.), apptd. to post in industry; P. C. A. Wishart (music), private work.

**DEATHS.** G. H. Bowen (clin. lectr. in dent. surg.); H. Donovan (clin. lectr. in surg.); T. Evans (staff tutor, extra-mural, 1931-58); A. D. Hargreaves (Barber prof. of law); E. B. Manley (prof. of dent. pathol.); E. J. Maskell (prof. of bot.); W. Meyerstein (hon. res. fellow physiol.); F. Norgrove (accountant, 1909-42; asst. sec., 1943-46).

**HONORARY DEGREES.** *DSc*—G. W. Beadle,

prof. of biol., inst. of tech., Calif. *LLD*—J. J. Gracie, dir., G.E.C. Ltd.; W. B. Kenrick, member of univ. council, formerly dep. pro-chancellor; Rt. Hon. Lord Netherthorpe of Anston, pres., N.F.U. *DLitt*—G. E. Bentley, prof. of Engl., Prin.; G. A. B. Shaw, dir. of Shakespeare Memorial Theatre. *MA*—T. Evans, formerly staff tutor, extra-mural dept. of univ.

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	3277	125
Women . .	866	44
Total .	4143	169

Distribution by Faculties. *Arts*, 1137; *comm. & soc. sci.*, 316; *law*, 163; *med.*, 687; *sci.*, 2009. Total: 4312.

*Included in the figures above are:—*

Postgraduate students, 732.

New admissions, 1610.

Students from other countries, 350. (Countries from which largest numbers came: India, 41; Nigeria, 29; U.S.A., 26; Iraq, 24; Iran, 17; Canada, 15; Pakistan, 15; Turkey, 12).

**DEGREES AWARDED (1958-59).** *Arts*: BA, 11; BA (hons.), 150; BMus (hons.), 4; MA, 20. *Comm. & soc. sci.*: BCom, 2; BCom (hons.), 25; BSocSc, 5; BSocSc (hons.), 36; MCom, 1; MSocSc, 3. *Law*: LLB, 2; LLB (hons.), 34. *Med.*: MB ChB, 79; MB ChB (hons.), 2; MD (hons.), 1; ChM, 2; BDS, 28. *Sci.*: BSc, 73; BSc (hons.), 306; MSc, 109; DSc, 8. PhD (all facs.): 116. Total number of first degrees awarded, 757.

**DIPLOMAS AWARDED (1958-59).** Educn., 17; educnl. psychol., 2; graduates' comm., 3; grad. studies, 38; psychol. of childhood, 11; soc. study, 1; soc. work, 2; teachers of educnlly. sub-normal children, 17; theol., 9.

**CERTIFICATES AWARDED (1958-59).** Child service, 15; div., 3; educn., 122; teachers of the blind, 6.

# UNIVERSITY OF BRISTOL\*

Founded 1909 ; previously established as University College, Bristol, 1876

Postal Address : Bristol 8, England

Cables and Telegrams : University, Bristol 8, England

Telephone : Bristol 24161

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. Sir WINSTON CHURCHILL, KG, OM, CH, Hon. LLD *Belf., Brist., Harv., McG., Brussels, Louvain, Miami, Westminster Coll., Col., Aberd., Ley., St. And., Liv.*, Hon. DCL *Oxon. & Roch.*, Hon. DPhil & Hist *Oslo*, Hon. LittD *Camb.*, Hon. DLit *Lond.*, Hon. DPhil *Copenhagen*, FRS (*ex officio* President of Court, Council and Convocation)

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VICE-CHANCELLOR—Sir PHILIP MORRIS, KCMG, CBE, MA *Oxon.*, Hon. LLD *Brist., McG., Rhodes, Assum. & N.U.I.*

PRO-VICE-CHANCELLOR—Professor C. B. PERRY, MD, FRCP

CHAIRMAN OF COUNCIL—Sir WILFRID ANSON, MC, MBE, MA *Oxon.*, JP

TREASURER—B. CLARK

LIBRARIAN—J. S. COX, MA *Oxon.*

REGISTRAR AND SECRETARY—H. C. BUTTERFIELD, MA(Com) *Manc.*, Hon. MA

BURSAR—C. M. SINGER, BA *Oxon.*, JP

FINANCE OFFICER—D. C. A. SMITH, Hon. MA, FCA

## TEACHING STAFF

[†=Part-Time]

**Agricultural Economics**, see Econ.

### Anatomy

Yoffey, J. M., MD DSc <i>Manc.</i> , FRCS	Prof.
Metcalf, W. K., MB BS <i>Durh.</i> , MD	Lectr.
Hudson, G., BSc MB ChB <i>Manc.</i>	Lectr.
Osmond, D. G., BSc MB ChB	Lectr.
Makin, G. S., MB ChB <i>Liv.</i>	Demr.
Ramsell, T. G., MB ChB <i>Manc.</i>	Demr.
Roylance, P. J., MB ChB	Demr.
Thomas, D. B., BSc MB BS <i>Lond.</i>	Demr.
Yates, A. K., MB ChB <i>Sheff.</i>	Demr.

**Botany**, see also Assoc. Instns., p. 851

Yemm, E. W., BA DPhil <i>Oxon.</i>	Melville Wills Prof.
Hawker, Lilian E., DSc PhD <i>Lond.</i>	(Mycol.) Reader
Fraymouth, Joan E., MSc PhD <i>Lond.</i>	Lectr.
Hope-Simpson, J. F., MA DPhil <i>Oxon.</i>	Lectr.
Folkes, B. F., BSc PhD	Lectr.
Willis, A. J., BSc PhD	Lectr.
Round, F. E., BSc PhD <i>Birm.</i>	Lectr.
Frost, L. C., MA PhD <i>Camb.</i>	(Genetics) Lectr.
Carlile, N. J., BA <i>Camb.</i>	Lectr.

Ham, Angela, BSc	Demr.
Woodward, Mrs. Elizabeth W., BA <i>Camb.</i> , BSc PhD <i>Lond.</i>	Demr.

### Chemistry, Inorganic and Physical

Everett, D. H., MBE, MA DPhil <i>Oxon.</i> , DSc <i>R'dg.</i>	Leverhulme Prof.
Pollard, F. H., DSc PhD	(Inorg. C.) Reader
Dunning, W. J., BSc PhD <i>Liv.</i>	(Phys. C.) Reader
Maxted, E. B., DSc <i>Lond.</i> , PhD <i>Berl.</i>	(Catalysis) †Sp. Lectr.
Dunning, Mrs. Kathleen W., BSc PhD <i>Lond.</i>	Lectr.
Seymour, R. C., BSc	Lectr.
Couper, A., BSc PhD	Lectr.
Stone, F. S., BSc PhD	Lectr.
Woodward, P., BSc PhD	(Inorg. C.) Lectr.
Hush, N. S., MSc <i>Syd.</i>	(Inorg. C.) Lectr.
Parsons, R., BSc PhD <i>Lond.</i>	Lectr.
Barron, T. H. K., MA DPhil <i>Oxon.</i>	Lectr.
Abel, E. W., BSc <i>Wales</i> , PhD <i>Lond.</i>	Lectr.
Cruickshank, A. J. B., BSc <i>Melb.</i> , MSc <i>Syd.</i>	(Phys. C.) Lectr.

\* Member of the Association of Universities of the British Commonwealth

Scott, A. E., BSc PhD *St.And.* Lectr.  
 Nickless, G., BSc (Inorg. C.) Asst. Lectr.  
 Leadbetter, A. J., BSc PhD *Liv.* Res. Asst.

**Chemistry, Organic**, see also Assoc. Instns.,  
 p. 851

Baker, W., MA *Oxon.*, DSc *Manc.*, FRS  
 A. C. Pass Prof.  
 Malkin, T., DSc *Lond.*, PhD *Manc.* Reader  
 McOmie, J. F. W., MA DPhil *Oxon.* Reader  
 Ollis, W. D., BSc PhD Lectr.  
 Hough, L., MSc PhD *Manc.* Lectr.  
 Battersby, A. R., MSc *Manc.*,  
 PhD *St. And.* Lectr.  
 Barton, J. W., BSc PhD Lectr.  
 Sutherland, I. O., MA PhD *Camb.* Lectr.

**Classics**

Beare, W., MA *Dub.* (Lat.) Prof.  
 Kitto, H. D. F., BA *Camb.*, FBA, FRSL  
 (Gk.) H. O. Wills Prof.  
 Cook, J. M., MA *Camb.*  
 (Anc. Hist. & Class. Archæol.) Prof.  
 Eichholz, D. E., MA *Camb.* Reader  
 Gulley, N., MA *Oxon.* Lectr.  
 Tester, S. J., BA *Lond.* Lectr.  
 Warmington, B. H., MA *Camb.*  
 (Anc. Hist.) Lectr.  
 Campbell, D. A., BA *Oxon.*, MA *Glas.* Lectr.  
 MacQueen, J. G., MA *St.And.* Asst. Lectr.  
 Dickinson, R. J., BA *Camb. & Durh.* Jr. Fellow

**Dentistry**, see below

**Domestic Science**, see also Assoc. Instns.,  
 p. 851

Bradshaw, Nancie E., BA *Lond.* Lectr.  
 Byett, Jessica D., BSc *Lond.* Tutor

**Drama**

Wickham, G. W. G., MA DPhil *Oxon.* Prof.  
 Rowell, G. R., MA BLitt *Oxon.* Lectr.  
 Brandt, G. W., BA *Lond.*, MA *Manit.* Lectr.  
 Ross, D. †Sp. Lectr.  
 Hale, J. †Sp. Lectr.  
 Brooke, Iris E. M. Sp. Lectr.  
 Jones, Marion, MA BLitt *Oxon.* Asst. Lectr.  
 i Demr.

**Economics**

Dickinson, H. D., MA *Camb.* Prof.  
 Tress, R. C., BSc(Econ) *Lond.* (Pol. Econ.) Prof.  
 Amey, L. R., BEc *Adel.*, BA PhD *Nott.*  
 (Accounting) Prof.  
 Giles, B. D., MA *Oxon.* Sr. Lectr.  
 Magee, B. J. T., BCom *Lond.* (Accty.) †Lectr.  
 Fleming, J. M., BComSc *Belf.* Lectr.  
 Mackenzie, H. C. H., DSO, MA *St.And.* Lectr.  
 Brooman, F. S., MA *Oxon.* Lectr.  
 Cornwell, S. V. P., MA *Oxon.* (Accty.) †Lectr.

Robertson, N., MA BSc *Aberd.*,  
 BLitt *Oxon.* Lectr.  
 Sampson, R. V., MA DPhil *Oxon.*  
 (Govt.) Lectr.  
 Shaw, Lulie A. E., MA *Oxon.*  
 (Soc. Studies) Lectr.  
 Clements, R. V., BA BLitt *Oxon.*, MA *Wis.*  
 (Govt.) Lectr.  
 Whitaker, J. K., BA(Econ) *Manc.*,  
 AM *Johns H.* (Mathl. Econ.) Lectr.  
 Butler, Barbara M. I., MA *Oxon.*  
 (Soc. Studies) Asst. Lectr.  
 Liepmann, Kate, PhD *Lond.*, DPhil *Berl.*  
 Res. Fellow  
 Bracey, H. E., MSc PhD *Lond.*  
 (Soc. Studies) Res. Fellow  
 Stevenson, Olive, BA *Oxon.*  
 (Appl. Soc. Studies) Tutor

**Economics (Agricultural Economics)**

**Bristol I Province**

Dawe, C. V., OBE, MCom *Leeds*, PhD Reader  
 Jeffery, R. R., BSc(Agric) BSc(Econ) *Lond.* Lectr.  
 Wragg, S. R., MA Lectr.  
 Baker, V., BSc(Econ) *Lond.* Lectr.  
 Cowie, W. J. G., MA *Aberd.* Lectr.  
 Fekete, E. B., LLD *Bud.* Lectr.  
 Godsell, T. E., BSc *Wales*, MS *Iowa* Lectr.  
 Mitchell, G. F. C., BSc(Econ) *Lond.* Lectr.

**Bristol II Province—Newton Abbot**

Morris, S. T., MSc *Wales* Sr. Lectr.  
 Beynon, V. H., BSc(AgricEcon) *Wales* Lectr.  
 Luxton, H. W. B., BSc(Agric) *Lond.*,  
 DipAgricEcon *Oxon.* Lectr.  
 Harrison, J. E., MSc(Agric) *Lond.* Lectr.  
 Cole, Helen M., BSc(Econ) *Lond.* Lectr.  
 Davies, E. T., BSc(Agric) *Wales* Lectr.  
 Davies, G. D. D., BSc(AgricEcon) *Wales* Lectr.  
 Langley, J. A., MSc(Agric) *Lond.* Lectr.  
 Rickard, R. C., BSc(Econ) *Lond.* Lectr.  
 Dunford, W. J., BSc(Econ) *Lond.* Res. Asst.  
 Bradley, J., BA Res. Asst.  
 Rendell, J., BSc *Lond.*

**Education**

Wilson, R. C., MA *Oxon.* Prof.  
 Morris, B., BSc EdB *Glas.* Prof.  
 Humphreys, D. W., MA *Lond.* Sr. Lectr.  
 Pye, Margaret W., BA PhD *Lond.* Sr. Lectr.  
 Jarman, T. L., MA BLitt *Oxon.*,  
 AM *Harv.* Lectr.  
 James, W. S., MSc *Lond.* Lectr.  
 Vinnicombe, Ellen J., MA *Camb.*,  
 BSc *Lond.* Lectr.  
 Hickman, Gladys M., MA PhD *Lond.*  
 (on leave) Lectr.  
 Michael, I., BA *Lond.* Lectr.  
 Scott, D. W., MA *Camb.* Lectr.  
 Tait, Marjorie, BA PhD *Lond.* Sp. Lectr.  
 Jervis, Margaret E., MA *Edin.* Lectr.  
 Bell, J. K., MA *Oxon.* Lectr.  
 Cooper, Dorothy J., MA *Leeds* Lectr.

Hannam, C. L., MA *Camb.*  
 Hull, L. W. H., MA *Camb.*  
 Richardson, J. Elizabeth, MA *Lond.*  
 Beedell, C. J., BSc *Lond.*

**Engineering, see below****English**

Knights, L. C., MA PhD *Camb.*

Winterstoke Prof.

Tucker, Susie I., MA *Oxon.* Sr. Lectr.  
 Gifford, C. H., MA *Oxon.* Sr. Lectr.  
 Reynolds, A. B., BA Sp. Lectr.  
 Goldsmith, Mrs. Margaret E., BA *Lond.* †Lectr.  
 Cottle, A. B., MA *Wales*, PhD Lectr.  
 Cross, J., MA Lectr.  
 Joseph, B. L., MA DPhil *Oxon.* Lectr.  
 Preston, J., MA BLitt *Oxon.* Lectr.  
 Bishop, I. B., BLitt MA *Oxon.* Lectr.  
 Tomlinson, P. P., BA *Camb.* Lectr.  
 Tomlinson, A. C., BA *Camb.*, MA *Lond.* Lectr.  
 Wilders, J. S., MA PhD *Camb.* Lectr.

**French**

Stewart, W. M., MA *Dub.* Prof.  
 Waite, F. J., BA *Lond.* Sr. Lectr.  
 Gould, S. C., BLitt DPhil *Oxon.*, BA Sr. Lectr.  
 Folkierski, W., PhD *Cracow* †Sp. Lectr.  
 Morrison, Mary G., MA *Aberd.*,  
 PhD *Camb.* Lectr.  
 Mellor, G., MA *Manc.* Lectr.  
 Taylor, S. W., BA PhD Lectr.  
 Watson, D., BA *Lond.* Lectr.  
 Day, D. A., MA *Lond.* Asst. Lectr.  
 Unger, Esther, MA *Oxon.*, PhD *Lond.* Asst. Lectr.

David, J. E. B., LèsL LenDroit Jr. Fellow  
 Hemming, T. D., BA *Oxon.* Jr. Fellow  
 3 Lecteurs

**Geography**

Ped, R. F. E. W., MBE, MA *Camb.* Prof.  
 Walker, F., MA *Liv.* Sr. Lectr.  
 Hainell, F. G., BSc PhD Lectr.  
 Graves, A. M., BSc Lectr.  
 Birch, J. W., BA PhD *R'dg.* Lectr.  
 Frey, A. E., BA Lectr.  
 Curtis, L. F., BSc Lectr.  
 Morgan, M. A., MA PhD *Camb.* Lectr.  
 Smith, D. I., BSc *Lond.*, MSc *McG.* Asst. Lectr.  
 Gulpin, Margaret C., BA *Camb.* Temp. Jr. Fellow

**Geology**

Whittard, W. F., DSc *Lond.*, PhD *Lond.* &  
*Camb.*, FRS C. Wills Prof.  
 Phillips, F. C., MA PhD *Camb.* (Petrol.) Reader  
 Donovan, D. T., DSc PhD Lectr.  
 Ford, I. H., BSc Lectr.  
 Cowie, J. W., BSc PhD Lectr.  
 Savage, R. J. G., BSc *Belf.*, PhD *Lond.* Lectr.  
 Bradshaw, R., MSc *Lond.* Lectr.  
 Leake, B. E., BSc PhD *Liv.* Lectr.  
 Matthews, S. C., BSc *Glas.* Asst. Lectr.

**German**

Closs, A. M., MA DPhil *Graz* Prof.  
 Morgan, Mrs. Estelle, MA PhD *Edin.* Sr. Lectr.  
 Goodbody, Margaret, MA Lectr.  
 Radcliffe, S., MA *Liv.* Lectr.  
 Keith-Smith, B., BA *S'ton.* Asst. Lectr.  
 2 Lektors, 1 Sp. Asst.

**Hebrew**

1 Recog. Teacher

**History**

Douglas, D., MA *Oxon.*, FBA Prof.  
 Ashworth, W., BSc(Econ) PhD *Lond.*  
 (Econ. & Soc. H.) Prof.  
 Jones, F. C., PhD *Harv.*, MA Reader  
 Butcher, Emily E., MA Sr. Lectr.  
 McGrath, P. V., MA *Lond.* Sr. Lectr.  
 Sharp, Mrs. Margaret, MA PhD *Manc.*  
 (Mediaev. H.) Lectr.  
 Ross, C. D., MA DPhil *Oxon.* Lectr.  
 Sherborne, J. W., MA *Oxon.* Lectr.  
 Marshall, P. D., MA *Oxon.* (Colonial H.) Lectr.  
 Ramsey, P. H., MA DPhil *Oxon.* Lectr.  
 Large, D., MA *Oxon.* Lectr.  
 Cole, W. A., MA PhD *Camb.* Lectr.

**Horticultural Science**

Bond, T. E. T., DSc *R'dg.*, PhD *Camb.*  
 Fowler, V. W., BSc *Lond.* Sr. Lectr.  
 Carter, Nancy C. C., BA BSc *Edin.*,  
 PhD *Camb.* Lectr.  
 Demr.

**Italian**

Bullock, A. O., BA *Oxon.* Jr. Fellow

**Law**

Coutts, J. A., MA LLB *Camb.* (Jurisp.) Prof.  
 Forrest, G. A., MA *Oxon.* Sr. Lectr.  
 Pettit, P. H., MA *Oxon.* Sr. Lectr.  
 Bain, K. H., LLB *Lond.* †Sp. Lectr.  
 Grodecki, J. K., BA *Oxon.*, BenDroit  
*Grenoble* Lectr.  
 Pitt, F. W. C., LLB †Lectr.  
 Burston, J. D., LLB †Lectr.  
 Adams, J. E., LLB †Lectr.  
 Hunt, W. E. F., BA LLB *Camb.* Lectr.  
 Tunkel, V., LLB *Nott.* Asst. Lectr.  
 van Zwanenberg, Anna, BA *S'ton.*,  
 LLM *Yale* Asst. Lectr.

**Mathematics, Applied**

Howarth, L., OBE, MA PhD *Camb.*,  
 BSc *Manc.*, FRS Prof.  
 Chester, W., MSc PhD *Manc.* Reader  
 Powell, J. B. L., BSc PhD Lectr.  
 Rogers, M. H., BSc PhD *Lond.*, FRMetS Lectr.  
 Moore, D. W., BA *Camb.* Lectr.  
 Drazin, P. G., BA PhD *Camb.* Lectr.



**Mathematics, Pure**

- Heilbronn, H. A., MA *Camb.*, PhD *Gött.*,  
FRS H. O. Wills Prof.  
Shepherdson, J. C., MA *Camb.* Reader  
Reifenberg, E. R., MA *Camb.* Lectr.  
Marstrand, J. M., DPhil *Oxon.*, MA *Oxon.* &  
*Camb.* Lectr.  
Hooley, C., MA PhD *Camb.* Lectr.  
Burgess, B. A., BSc *Lond.* Lectr.

**Mechanics, Theoretical**, see Engineering, below**Medicine**, see below**Metallurgy**, see Engineering, below**Music**

- Grant, W., DMus *Durh.*, FRCO  
Stanley Hugh Badock Prof.  
Byard, H., MA Lectr.  
Mobbs, K. W., MA MusB *Camb.* Lectr.

**Philosophy**

- Körner, S., JurDr *Prague*, PhD *Camb.*, MA Prof.  
Alexander, P., BA BSc *Lond.* Reader  
Macleod, J. Winifred, MA *Glas.*, BLit *Oxon.*  
Sp. Lectr.  
Kirkham, R. M., MA *Oxon.* Lectr.  
Edgley, R., BA *Manc.*, BPhil *Oxon.* Lectr.  
Nidditch, P. H., MA PhD *Lond.* Lectr.  
Milligan, D. E., MA *Edin.* Asst. Lectr.

**Physical Education**

- Williams, A. I. J., BA *Oxon.*  
(Men) Lectr., Instr.  
Turner, Daphne G. (Women) Lectr., Instr.

**Physics**, see also Chem., Inorg. and Phys.

- Pryce, M. H. L., MA *Oxon.* & *Camb.*,  
PhD *Prin.*, FRS H. O. Wills Prof.  
Powell, C. F., MA PhD *Camb.*, ScD *Dub.* &  
*Bordeaux*, FRS Melville Wills Prof.  
Frank, F. C., OBE, BA BSc DPhil *Oxon.*,  
DSc *Ghent*, FRS Prof.  
Thompson, N., BSc PhD *Sheff.*  
Sr. Lectr. & Sr. Tutor  
Burch, C. R., CBE, BA *Camb.*, PhD *Lond.*,  
FRS Warren Res. Fellow  
Chambers, R. G., MA PhD *Camb.* Sr. Lectr.  
Gibbs, D. F., BSc *Lond.* Sr. Lectr.  
Gibson, W. M., MA PhD *Camb.* Sr. Lectr.  
Perkins, D. IL., BSc PhD *Lond.* Reader  
Kay, H. F., MSc PhD *Manc.* Lectr.  
Nye, J. F., MA PhD *Camb.* Lectr.  
Devonshire, A. F., MA PhD *Camb.* Lectr.  
Fowler, G. N., BSc PhD *Manc.* Lectr.  
Bates, W. J., BSc PhD Lectr.  
Forty, A. J., BSc PhD Lectr.  
Llewellyn, P. M., MA DPhil *Oxon.* Lectr.  
Waddington, C. J., BSc PhD Lectr.

- Lang, A. R., MSc *Lond.*, PhD *Camb.* Lectr.  
Freundlich, H. F., MA *Camb.*

(Med. Phys.) Lectr.

- Parsons, D., BSc PhD *Sheff.* Lectr.  
Bohm, D. J., BSc PhD *Calif.* Res. Fellow  
Fowler, P. H., DSc Res. Fellow  
Davies, J. H., BSc *Wales* Res. Assoc.  
Heitler, H., PhD Res. Asst.  
Littleton, Marjorie J., BA *Camb.* Res. Asst.  
Keller, A., DiplChem *Bud.*, PhD Res. Asst.  
Takagi, S., DSc *Tokyo* Res. Asst.  
Gugan, D., BSc PhD *Lond.* Res. Asst.  
Baker, J. G., BA PhD *Camb.* Res. Asst.  
Bassett, G. A., MSc *Lond.* Res. Asst.  
1 Recog. Teacher

**Physiology**

- Brocklehurst, R. J., MA DM BCh *Oxon.* Prof.  
Ashford, C. A., MA PhD *Camb.*  
(Chem. P.) Sr. Lectr.  
Bach, S. J., PhD *Camb.* (Chem. P.) Reader  
Carlyle, A., BA *Camb.*, BVSc *Liv.*  
(Vet. P.) Sr. Lectr.  
Rogers, A. F., MD ChB Sr. Lectr.  
Cole, Anne S., BSc PhD *Lond.* Lectr.  
Batten, E. H., BSc R'dg., PhD *Lond.*  
(Vet. P. & Histol.) Lectr.  
Williams, T. D., BSc MD ChB *Liv.* Lectr.  
Barbour, R. F., MA *Camb.*, MB ChB *Edin.*,  
DPM, FRCP (Psychol.) † Lectr.  
Carter, Sheila B., MSc PhD *Birm.*  
(Vet. P.) Lectr.  
Boss, J. M. N., BSc MB BS *Lond.*,  
PhD *Camb.* Lectr.  
Buxton, R. St. J., MB BS *Lond.* Lectr.  
Phelps, C. F., BA *Oxon.* Lectr.  
1 Recog. Teacher

**Psychology**

- Hall, K. R. L., MA DPhil *Oxon.* Prof.  
Bowyer, Laura R., MA EdB *Glas.*,  
BSc(Econ) *Lond.* Lectr.  
George, F. H., MA *Camb.*, PhD Lectr.  
Piercy, M. F., MA *Camb.* † Lectr.  
Pleydell-Pearce, I. W., BA PhD Lectr.  
Griew, S., BSc *Lond.*, PhD Lectr.  
Murrell, K. H. F., MA *Oxon.* Res. Fellow  
Powesland, P. F., MA *W.Ont.*, BA Res. Asst.  
Howels, M. G., BA Demr.

**Religious Knowledge**

- Grayston, Rev. K., MA *Oxon.* & *Camb.* Sp. Lectr.  
3 Recog. Teachers  
For teachers for the BA in theol. subjects, see  
Assoc. Instns., p. 851

**Social Studies**, see Econ.**Spanish**

- Metford, J. C. J., MA *Liv.* Prof.  
Bacarisse, S., BA *Lond.* Asst. Lectr.

Keightley, R. G., BA *Camb.*  
McGill, Lorna, BA *Camb.*

Jr. Fellow  
Jr. Fellow

Lawson, T. V., BSc *Leeds*  
Boswell, R. P., MSc(Eng) *Lond.*  
Tinkler, J., BSc PhD *Lond.*  
Flower, J. W., BSc  
Lloyd, D. H., BSc

Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

### Zoology

Harris, J. E., MA PhD *Camb.*, FRS Prof.  
Kitching, J. A., OBE, MA ScD *Camb.*,  
PhD *Lond.*, FRS Reader  
Hinton, H. E., BSc *Calif.*, PhD  
ScD *Camb.* (Entomol.) Reader  
Jenkin, Penelope M., MA *Camb.*, DSc Sr. Lectr.  
Sloane, J. F., BSc *Glas.* Sp. Lectr.  
Bassindale, R., MSc *Sheff.* Lectr.  
Crofton, H. D., BSc PhD *Durh.*  
(Parasitol.) Lectr.  
Whiting, H. P., DSC, MA PhD *Camb.*  
(Vertebrate) Lectr.  
Clark, R. B., BSc *Lond.*, PhD *Glas.* Lectr.  
Wilson, R. S., BSc PhD *Edin.* Lectr.  
Caldwell, P. C., MA DPhil *Oxon.*  
(Biochem.) Lectr.  
Hartley, J. C., BSc PhD Res. Asst.  
Riddle, J., BSc PhD Res. Asst.  
Jarman, G. M., BSc Demr.

### DENTISTRY

(For subjects of first two years—Anat., etc.,  
see above)

#### Dental Medicine

Darling, A. I., DDSc *Durh.*, FDSRCS Prof.  
Fletcher, J. P., BDS, FDSRCS Lectr.  
Snawdon, J. W. E., MB ChB MDS,  
FDSRCS (Anat., Physiol. & Histol.) †Lectr.  
Wells, J., LDS, FDSRCS (Jurisp.) †Lectr.  
Stack, M. V., MSc PhD *Lond.* Res. Fellow

#### Dental Surgery

Bradford, E. W., MDS *Sheff.*, DDSc  
St. And. Prof.  
Crabb, H. S. M., MDS *Lond.*, PhD,  
FDSRCS (Operative) Lectr.  
Rigg, S. K., LDS †(C)\*  
Berry, D. C., MDS PhD  
(Prosth. & Dent. Surg.) Lectr.  
Nicol, W. A., DDO *Glas.*, LDS  
(Orthodontics) †(C)  
Connor, D. C., LDS †(C)  
Snawdon, J. W. E., MB ChB MDS,  
FDSRCS †(C)  
Tratman, E. K., OBE, MD *Malaya*, MDS,  
FDSRCS †(C)  
Simmonds, N. H., LDS  
(Dent. Radiol.) †(C), †Lectr.  
Hogbin, F. R., LDS †(C)  
Bakewell, W., LDS †(C)  
Cooper, J. S., BDS (Prosth.) Lectr.  
4 Tutors, 8 Recog. Teachers

### ENGINEERING

#### Aeronautical Engineering

Collar, A. R., MA *Camb.*, DSc *Lond.*,  
FRAeS Sir George White Prof.

#### Civil Engineering

Pugsley, Sir Alfred, OBE, DSc *Lond.*,  
MICE, FRAeS, FRS Prof.  
Gibbs, E. F., MSc PhD *Lond.* Sr. Lectr.  
Cullimore, M. S. G., BSc PhD Lectr.  
Larnach, W. J., MSc *Durh.* Lectr.  
Severn, R. T., BSc PhD *Lond.* Lectr.  
Park, R., MEng *N.Z.* Lectr.  
Smith, B. S., BSc *Manc.* Lectr.  
Quick, M. C., BSc Jr. Fellow  
Davenport, A. G., MA *Camb.*, MASc *Tor.* Res. Asst.  
Redwood, R. G., BSc Res. Asst.  
i Res. Asst.

#### Electrical Engineering

Rawcliffe, G. H., MA *Oxon.*, DSc *Aberd.*,  
MIEE Prof.  
Chard, F. de la C., MSc *Lond.*, MIEE  
Sutcliffe, H., MA *Camb.* Sr. Lectr.  
Brown, J. E., BSc *Durh.*, PhD *Sheff.* Sr. Lectr.  
Burbidge, R. F., BSc PhD Lectr.  
Jha, C. S., BSc *Patna* Lectr.  
Storey, D. J., MA *Camb.* Lectr.  
Johnston, W. G., MSc *Lond.* Lectr.  
Broadway, A. R. W., BSc Jr. Fellow  
Umbreit, W. P., DiplElektro-Ing Res. Assoc.  
Fong, W., PhD Res. Asst.  
Bird, B. M., MSc Res. Asst.

#### Mechanical Engineering

Morrison, J. L. M., CBE, DSc, MIMechE Prof.  
Rogers, G. F. C., BSc Sr. Lectr.  
Dearden, W. H., MSc *Manc.*, FIM, FRIC  
(Chem. & Metall.) Lectr.  
Mayhew, Y. R., BSc *Lond.* Lectr.  
Bones, J. A., BSc Lectr.  
Threlfall, P. M., MScTech *Manc.* Lectr.  
Parry, J. S. C., BSc PhD Lectr.  
Haines, D. J., BSc *Nott.* Lectr.  
Hollingsworth, M. A., BSc *Lond.*,  
PhD *S'ton.* Lectr.

#### Theoretical Mechanics

Shepherd, W. M., DSc *Lond.* Prof.  
Newing, S. T., BSc *Lond.* Sr. Lectr.  
Gaydon, F. A., MSc *Lond.* Sr. Lectr.  
Nuttall, H., BSc *Lond.* & *Manc.*, PhD *Birm.* Lectr.  
Sowerby, L., MA *Camb.* Lectr.  
Poots, G., BSc PhD *Belf.* Res. Assoc.

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc.,  
see above)

**Anæsthetics**

Clutton-Brock, J., MA MB BChir *Camb.*,  
FFARCS Lectr., Hd. of Dept.  
Bradbeer, E. G., FFARCS †Lectr.  
Baxter, V. T., MB ChB, FFARCS †(C)\*  
Feneley, G. L., MB ChB, FFARCS †(C)  
Moore, R. H., MB ChB, FFARCS †(C)  
Gorham, A. P., MB ChB, FFARCS †(C)  
Taylor, J. T. C. †(C)  
Challenger, J. H., MB ChB, FFARCS †(C)  
Steen, T. R., MB BChir *Camb.*, FFARCS †(C)  
5 Tutors

**Bacteriology**

Cooper, K. E., BSc PhD *Leeds* Prof.  
Cayton, H. R., MB ChB †Lectr.  
Mayr-Harting, Mrs. Anna, MD *Prague*,  
PhD Lectr.  
Linton, A. H., MSc PhD (Vet. B.) Lectr.  
Ware, G. C., MA PhD *Dub.* Lectr.  
Hedges, A. J., BSc PhD Lectr.  
Peacock, D. B., MB ChB Res. Asst.  
6 Recog. Teachers

**Child Health**

Neale, A. V., MD *Birm.*, DPH, FRCP Prof.  
Apley, J., MD *Lond.*, FRCP †Lectr. (C)  
Corner, Beryl, MD *Lond.*, FRCP †Lectr. (C)  
Marrian, Valerie J., MB ChB *Edin.* Lectr.  
Walker, Sarah C. B., MD DPH *Lond.* †(C)  
Smallwood, A. L., MD DPH *Liv.* †(C)  
3 Tutors, 4 Recog. Teachers

**Dermatology**

Evans, C. D., OBE, MA MD BChir *Camb.* †(C)  
Warin, R. P., MD *Leeds* †(C)  
2 Tutors

**Laryngology, Rhinology and Otology**

James, J. A., MD *Lond.*, MB ChB, FRCS  
†Lectr., Hd. of Dept.  
Fairman, H. D., MB BS *Lond.*, FRCSEd †(C)  
Freeman, J., MB BS *Lond.*, FRCS †(C)  
Malcomson, K. G., MB BCh BAO *Belf.*,  
DLO *Lond.*, FRCS †(C)  
3 Tutors

**Medicine, see also Pathol., Pharmacol.**

Perry, C. B., MD, FRCP Prof.  
Cates, J. E., MD *Lond.*, FRCP Lectr.  
Coles, D. R., BSc MD, MRCP Lectr.  
Read, A. E., MD BS *Lond.*, MRCP Lectr.  
Campbell, A. M. G., DM *Oxon.*, FRCP †Lectr.  
Davies, D. H., MD *Camb.*, FRCP †Lectr.  
Naish, J. M., MA MD *Camb.*, FRCP †Lectr.  
Kersley, G. D., MA MD *Camb.*, FRCP  
(Rheumatic Dis.) †Lectr.

Pearson, J. E. G., MA DM *Oxon.*, FRCP

(Pulmonary Dis.) †Lectr.  
Tovey, G. H., MD (Hæmatol.) (C), †Lectr.  
Barritt, D. W., MD *Lond.*, MRCP †(C)  
Gibson, C. R., MB ChB *Glas.*

(Forensic Med.) †Lectr.  
Roberts, J. A. F., MA *Camb.*, DSc MD *Edin.*,  
FRCP (M. Genet.) †Sp. Lectr.

Alexander, A. J. P., MD BAO *Belf.*,  
MRCP (TB) †(C)

Craig, R. A., BSc MD *Lond.*, MRCP (TB) †(C)  
Roberts, A. T. M., MD *Lond.*, MRCP (TB) †(C)

Mather, H. G., MD *Cleveland & Camb.*,  
MRCP †(C)

Macrae, J., MD DPH *Glas.*,  
FRFPSGlas (Fevers) †(C)

Walley, R. V., BA MD BChir *Camb.*  
(Fevers) †(C)

5 Tutors, 3 Recog. Teachers

**Neuro-Surgical Unit, see also Surg.**

Alexander, G. L., MD ChB BSc *Edin.*,  
FRCS Surgeon-in-Charge †(C)  
1 Recog. Teacher

**Obstetrics and Gynæcology**

Lennon, G. G., MB ChM *Aberd.*, FRCOG Prof.  
Loxton, S. D., MB ChB, FRCS †Lectr.  
Shepherd, H. L., ChM MB, FRCOG †Lectr.  
Abbas, T. M., MD ChB *Edin.*, FRCSEd Lectr.  
Edwards, E. M., MB MS *Lond.* Lectr.  
Bennett, Marjorie, MD *Lond.*, ChM, FRCS,  
FRCOG †(C)  
Crossley, J., MA MB BChir *Camb.*, FRCS †(C)  
4 Tutors, 1 Recog. Teacher

**Ophthalmology**

Palin, A., MA BM BCh *Oxon.*, FRCSEd  
†Lectr., Hd. of Dept.  
Brown, C. A., MA MD *Aberd.*, DOMS,  
FRCS †(C)  
Jardine, P., DOMS, FRCSEd †(C)  
Clifton, F., MA MB BChir *Camb.*, DOMS †(C)  
Phillips, C. I., MD DPH *Aberd.*, FRCS †(C)  
2 Tutors

**Pathology**

Hewer, T. F., MD, FRCP Prof.  
Gillespie, W. A., MA MD *Dub.*, DPH  
(Clin. Bacteriol.) †Lectr.  
Taylor, A. L., MD *Leeds* (Clin. P.) †Lectr.  
McGowan, G. K., BA BM BCh *Oxon.*  
(Chem. P.) †Lectr.  
Hunt, A. C., MD BS *Lond.* (Forensic P.) Lectr.  
Lewis, F. J. W., MB ChB  
(Clin. P. & Hæmatol.) †Lectr.  
Sandry, R. J., MD ChB †Lectr.  
Lloyd, O. C., MA MD *Camb.* Lectr.  
Halford, M. E. H., MD *Lond.*, MRCP Lectr.  
Norman, R. M., DPM *Lond.*, MD, MRCP  
(Neuropathol.) †Lectr.  
Sanerkin, N. G., DCP *Lond.*, MD †Lectr.

Price, C. H. G., MD Res. Fellow  
 Jeffree, Grace M., BSc R'dg., PhD Res. Fellow  
 Meek, E. S., MD *St. And.*  
 (Cancer Res.) Res. Fellow  
 Raper, A. B., BSc MD *Leeds*, MRCP †(C)\*  
 Kon, Vanda M., BVSc (Vet. P.) Jr. Fellow  
 Hayes, J. A., MB ChB Demr.  
 Lewis, M. J., MB ChB Demr.  
 Evans, P. A., MB BS *Lond.* Demr.  
 3 Tutors, 4 Res. Assts., 1 Recog. Teacher

### Pharmacology and Practical Pharmacy

Heller, H. S., MD *Camb.*, PhD *Prague*,  
 MRCP Prof.  
 Ginsburg, M., BSc PhD *Edin.* Reader  
 Fitzpatrick, R. J., BSc PhD *Lond.*  
 (Vet. Pharmacol.) Sr. Lectr.  
 Smith, M. W., BPharm *Lond.*, PhD  
 Temp. Asst. Lectr.  
 Pugh, D. M., BVSc Jr. Fellow  
 Blair, A. M. J. N., MSc *Edin.* Jr. Fellow  
 Noddle, Barbara, MA VetMB *Camb.* Res. Asst.  
 1 Recog. Teacher in Pract. Pharm.

### Psychiatry

Hemphill, R. E., MA MD BAO *Dub.*, DPM  
 †Lectr., Hd. of Dept.  
 Barbour, R. F., MA *Camb.*, MB ChB *Edin.*,  
 DPM, FRCP †(C)  
 Leitch, A., MD *Glas.*, DPM *Lond.* †(C)  
 Heaton Ward, W. A., MB ChB DPM †(C)  
 Early, D. F. M., DPH DPM *N.U.I.* †(C)  
 Walker, W. I., MB ChB DPH *Aberd.*,  
 DPM *Lond.* †(C)  
 Valentine, M. G., MD *Aberd.*, DPM †(C)  
 1 Tutor, 4 Recog. Teachers

### Public Health

Wofinden, R. C., MD DPH DPA *Lond.* †Prof.  
 Bothwell, P. W., MB ChB DPH *Aberd.* †Lectr.  
 Phillips, H. T., MD *Lond.* †Lectr.  
 Herdan, G., MSc *Lond.*, PhD *Vienna*,  
 LD *Prague* (Stats.) Lectr.  
 Whittle, E. G., BSc *Lond.*, FRIC  
 (Chem. of Hyg.) †Lectr.  
 Dembrey, I., BSc, FRIC  
 (Chem. of Hyg.) †Lectr.  
 Faulkner Hudson, T. G., MD *Lond.*,  
 MRCP (Indust. Hyg.) †Lectr.  
 Kelly, G. C., CBE, BSc MD *Aberd.*,  
 DPH *Lond.* (Hosp. Admin.) †Lectr.  
 Skone, J. F., MD *Lond.*, DPH †Lectr.  
 4 Recog. Teachers

### Radiodiagnosis

Middlemiss, J. H., MD *Durh.*, FFR  
 †Lectr., Hd. of Dept.  
 Sparks, J. V., BA DMRE *Camb.*, MRCP †(C)  
 Gaskell, K. H., MA BChir *Camb.*, DMRD †(C)  
 Wansbrough, T. B., DMRE *Camb.*, MB  
 ChB †(C)  
 Airth, G. R., MB BS *Durh.*, DMRD †(C)

Ross, F. G. M., BA MB BCh *Dub.*,  
 DMRD, FFR †(C)  
 Gordon, I. R. S., MD *Camb.*, DMRD,  
 MRCP †(C)  
 Thomson, J. L. G., MD *Lond.*, DMRD,  
 MRCP †(C)  
 Evans, K. T., MB ChB *Birm.*, DMRD,  
 MRCP, FFR †(C)  
 4 Tutors

### Radiotherapy

Tudway, R. C., BSc MB BS DMR *Lond.*,  
 FFR †Lectr., Hd. of Dept.  
 Curwen, S., DMRT †(C)  
 2 Tutors, 1 Recog. Teacher

### Surgery, see also Neuro-Surg.

Milnes Walker, R., MB MS *Lond.*, FRCS Prof.  
 McPherson, A. G., BA MB MChir *Camb.*,  
 FRCS †(C)  
 Eyre-Brook, A. L., MB MS *Lond.*, FRCS  
 (Orthop. & Fractures) †Lectr.  
 Cooke, R. V., MB ChM, FRCS †(C)  
 FitzGibbon, G. M., MD *Lond.*, FRCS  
 (Plastic S.) †(C)  
 Paul, R. G., FRCS †(C)  
 Pridie, K. H., MB ChB, FRCS (Orthop.) †Lectr.  
 Miller, A., MA MD *Camb.*, FRCS (Urol.) †Lectr.  
 Capper, W. M., MB BS *Lond.*, FRCS †Lectr.  
 Horton, R. E., MBE, MB MS *Lond.*,  
 FRCS †Lectr.  
 Peacock, J. H., MB ChM *Birm.*, FRCS Lectr.  
 Vowles, K. D. J., MB ChB, FRCS Lectr.  
 Belsey, R. H. R., MB MS *Lond.*, FRCS  
 (Thoracic S.) †(C)  
 Pocock, J. A., MA MB BChir *Camb.*,  
 FRCS †Lectr.  
 Lucas, H. K., MBE, MB MChOrth *Liv.*,  
 FRCSEd †(C)  
 McCormack, M. P., MB ChB *Edin.*,  
 FRCSEd (Orthop.) †(C)  
 Mitchell, J. P., MB MS *Lond.*, FRCS (Urol.) †(C)  
 Bourns, H. K., BA MB BCh BAO *Dub.*,  
 FRCS †(C)  
 7 Tutors, 4 Recog. Teachers

### Venereal Diseases

Tinkler, A. E., MA MD BAO *Dub.* †(C)

## VETERINARY SCIENCE

### Veterinary Anatomy

Ottaway, C. W., PhD *Camb.*, FRCVS Prof.  
 King, A. S., BSc PhD *Lond.* Sr. Lectr.  
 Smith, R. N., PhD, FRCVS Lectr.  
 Marrable, A. W., BSc *Lond.*  
 (also Embryol.) Lectr.  
 Ashdown, R. R., BVSc PhD Lectr.

### Veterinary Medicine

Grunsell, C. S. G., PhD *Edin.* Prof.  
 Ewer, T. K., BVSc *Syd.*, PhD *Camb.*  
 (Animal Husbandry) Prof.

Holmes, J. R., MVSc PhD <i>Liv.</i>	Lectr.	Barnard, Elsie J.	†Sp. Lectr.
Payne, L. N., BVSc	Lectr.	Bowen, Mabel, BSc <i>Liv.</i>	†Sp. Lectr.
McCrea, M. R., BVSc		Burrige, Frances R.	†Sp. Lectr.
(Animal Husbandry) Sp. Lectr.		Cranswick, Margaret E., BA <i>Lond.</i>	†Sp. Lectr.
Jaffe, W. P., BSc(Agric) <i>Wales</i> , PhD <i>Edin.</i>		Gregory, F. F., MA <i>Lond.</i>	†Sp. Lectr.
(Animal Husbandry) Lectr.		Horstmann, F. C.	†Sp. Lectr.
Radford, P., BScAgric <i>Nott.</i> , PhD		Humphreys, Mrs. Mary E.,	
(Animal Husbandry) Lectr.		BA <i>Manc.</i>	†Sp. Lectr.
Manners, M. J., BSc(Agric) <i>Lond.</i> ,		May, Dorothy E.	†Sp. Lectr.
MScAgric <i>Nott.</i> (Animal Husbandry) Lectr.		Melhuish, Dorothy E., BA <i>Lond.</i>	†Sp. Lectr.
Kidder, D. E., BSc PhD <i>Lond.</i>		Parrott, Winifred V., BA	†Sp. Lectr.
(Chem. Pathol.) Lectr.		Sayer, H. W.	†Sp. Lectr.
Wright, A. I., BVSc <i>Liv.</i> (Clin. Parasitol.) Lectr.		Smith, L., MA <i>Oxon.</i>	†Sp. Lectr.
Penny, R. H. C., BSc <i>Liv.</i> (Clin. Pathol.) Lectr.		Symons, Doreen I.	†Sp. Lectr.
Osborne, A. D., DVSM (Vet. Pathol.) Lectr.			
3 Recog. Teachers			

**Veterinary Physiology**, see Physiology

### **Veterinary Surgery**

Messervy, A.	Prof.
Yeats, J. J.	Lectr.
Weaver, Barbara M. Q.	Lectr.
Pearson, H., BVSc	Lectr.
Clark, W. T., BVMS <i>Edin.</i>	Asst. Lectr.
Stoker, J. W., BVSc	Jr. Fellow
David, J. S. E., BVSc	Res. Asst.
1 Recog. Teacher	

### **INSTITUTE OF EDUCATION**

Morris, B. S., BSc EdB <i>Glas.</i>	Prof., Dir.
Berry, Hannah M., BSc <i>Lond.</i>	Sr. Lectr.
Meek, Margaret D., MA <i>Edin.</i>	Lectr.
Lang, J. G., MA <i>St.And. &amp; McG.</i>	Sp. Lectr.
Allaun, Miss Ray P., BA <i>Lond.</i>	Sp. Lectr.
Knowlson, H., BSc PhD <i>Leeds</i>	
Staff Tutor & Sp. Lectr.	
Brimer, M. A., MA <i>Camb.</i>	Lectr.
Tapper, E. W., BSc <i>Lond.</i>	Res. Fellow
Stott, I. F. G., MA BD <i>St.And.</i>	
Tutor to Overseas Students	
Robert, C. W., MA <i>Camb.</i>	
Tutor to Overseas Students	
Savory, H. J., MSc	†Tutor to Overseas Students
Pounce, Mrs. Cicely Y., I.LB	†Res. Asst.
Shipway, Inez M., BSc <i>Lond.</i>	Library Tutor
Bradby, E. L., MA <i>Oxon.</i>	†Lectr.
Bradshaw, Nancie E., BA <i>Lond.</i>	†Lectr.
Chalker, J. B.	†Lectr.
Dawson, Alice M., MA <i>Birm.</i>	†Lectr.
Ellis, C.	†Lectr.
Graham, Margaret M., MA <i>Oxon.</i>	†Lectr.
Grubb, Violet M., DSc <i>Lond.</i>	†Lectr.
Jones, Ethel W., BA <i>Wales</i> , MA <i>Lond.</i>	†Lectr.
Neilson, Elizabeth B.	†Lectr.
Wharton, J. T., MA <i>Camb.</i>	†Lectr.

### **TRAINING COURSE FOR HEALTH VISITORS**

8 Recog. Teachers

### **EXTRA-MURAL STUDIES**

Salt, W. E., OBE, MA <i>Sheff.</i> , BCom <i>Manc.</i>	Dir. of Dept
Owen, F. S., BSc(Econ) <i>Lond.</i>	(Services Educn.) Asst. to Dir
Walthew, F. W., MA <i>Camb.</i>	Asst. to Dir
Pt.-time Extra-Mural Lectrs. : 80 members of Univ. staff, 115 others.	

#### **Resident Tutors**

##### *Bristol*

Hopkins, P. W., BA ; Burton, J. C. G., MA <i>Camb.</i>
--

##### *Dorset*

Ollett, F. A., MA <i>Camb.</i> ; Waring, E., MA MLitt <i>Camb.</i>
--

##### *Gloucestershire*

Taylor, W. R., BSc(Econ) <i>Lond.</i> ; Tucker, H. F. G., MA ; Driver, P. M., BSc <i>Durh.</i> , PhD <i>McG.</i>
--

##### *Somerset*

Cair, S. H., BSc(Econ) <i>Lond.</i> (Sr. Lectr.) ; Durham, I. L., MA <i>Oxon.</i> ; Sharp, S., MA <i>Leeds</i>
--

##### *Wiltshire*

Ross, H., BA <i>Lond.</i> ; Hare, A., MA ; Thomas, J. L., BA <i>Lond.</i> ; Smith, D., BA <i>Oxon.</i>
--

#### **Staff Tutors**

Aris, R. F., DrJurUtr <i>Jena</i> (Services Educn.) ; Cunliffe, G., BSc <i>Manc.</i> (Nat. Sci.) ; Smith, M. G., MA <i>Oxon.</i> (Phys.)
--

### **ADMINISTRATIVE AND OTHER STAFF**

OFFICE OF THE REGISTRAR AND SECRETARY.  
Asst. Registrars and Secs. : A. Fraser, BA *Leeds* ;

E. C. Wright, MA *Oxon.* ; Anne Walker, BA (Com) *Manc.* Admin. Assts. : A. G. W. Moon,

BSc; D. W. Dykes, MA *Oxon.*; W. A. Husband, BCom *Durh.* Exams. Officer: A. J. Davis. Publicns. Officer: B. O. Litten.

OFFICE OF THE BURSAR. Asst. Bursar (Property): A. G. Jones. Asst. Bursar (Domestic): Dorothy M. Woodcock, MA *Oxon.* Catering Supervisor: Mary J. E. Mortimer.

OFFICE OF THE FINANCE OFFICER. Asst. Finance Officer: T. B. Smith, FCA. Admin. Asst.: J. A. Gunn, BA *Lond.*

APPOINTMENTS BOARD. Sec.: Elsie M. Briggs, BSc PhD *Leeds.* Asst. Secs.: Audrey Heckels, BSc *Manc.*; B. W. Taylor, CB, DSO.

WARDENS OF HALLS OF RESIDENCE. J. F. Sloane, BSc *Glas.* (Wills Hall); A. B. Reynolds, BA (Churchill Hall); A. M. Graves, BSc (Burwalls); J. Winifred Macleod, MA *Glas.*, BLitt *Oxon.*

(Clifton Hill House); Marjorie Tait, BA PhD *Lond.* (Manor Hall); J. R. Holmes, MVSc PhD *Liv.* (Langford House).

WARDENS OF FRY AND HALDANE SOCIETIES. Daphne Turner (Fry Soc.); F. Walker, MA *Liv.* (Haldane Soc.).

ADVISER TO OVERSEAS STUDENTS. F. T. Bennitt, BA *Camb.*

INSTITUTE OF EDUCATION. Sec.: J. G. Lang, MA *St. And.* & *McG.* Asst. Secs.: Miss Ray P. Allaun, BA *Lond.*; Joan I. Beale, BA *Lond.*

STUDENT HEALTH. Med. Officer-in-Charge: D. G. H. Sylvester, MD *Lond.* Asst. Med. Officer: M. J. Conway, MB ChB *Manc.*

LIBRARY. Senior Sub-Librarian: J. R. Barker, MA *Camb.*, FLA. Sub-Librarians: A. E. S. Roberts, MA; J. Lighthown, MA *Leeds.*

## ASSOCIATED INSTITUTIONS

in which specialized teaching is given or facilities for research are afforded:-

### Agriculture

LONG ASHTON RESEARCH STATION (Dept. of Agric. and Hortic.), Long Ashton, Bristol (tel.: Long Ashton 2181). Dir. & univ. prof. of AGRIC. AND HORTIC. SCI.—H. G. H. Kearns, OBE, BSc *Lond.*, PhD *Camb.* PLANT PATHOL.—R. W. Marsh, MA *Camb.*, Asst. Dir. & Reader. CHEM. OF INSECTICIDES AND FUNGICIDES—J. T. Martin, DSc PhD *Lond.*, Asst. Dir. & Reader. With the standing of sr. lectrs. in the univ.: BIOCHEM.—A. Pollard, MSc *Lond.*, PhD *Manc.*; POMOL.—L. C. Luckwill, BSc PhD; ORG. CHEM.—D. Woodcock, DSc PhD *Durh.* With the standing of lectrs. in the univ.: BIOCHEM.—G. C. Whiting, BSc PhD *Sheff.*; H. E. Davenport, BSc *Lond.*, PhD *Camb.*; CHEM.—C. Bould, MSc PhD *R'dg.*; L. F. Burroughs, BSc *R'dg.*, PhD; D. G. Hill-Cottingham, MSc PhD *Lond.*; H. J. Mapother, BA *BSc Dub.*; E. J. Skerrett, PhD; ENTOMOL.—A. Stringer, BSc *Lond.*; N. G. Morgan, BSc PhD; T. E. Cobbald, BSc(Agric) *Lond.*; FRUIT PRODUCTS—Margaret E. Kieser, BSc; MICROBIOL.—F. W. Beech, BSc *Birm.*, PhD; J. G. Carr, BSc PhD; MYCOL.—R. J. W. Byrde, BSc(Hort) PhD *R'dg.*; A. T. K. Corke, BSc PhD *Edin.* ORG. CHEM.—C. F. Timberlake, MSc *Wales* A. H. Williams, MA BSc *Oxon.*; PHYS. CHEM.—W. D. E. Thomas, BSc PhD *Wales*; E. Somers MSc *Leeds*, PhD; C. P. Lloyd-Jones, BSc C. G. L. Furmidge, BSc PhD *Nott.*; PLANT PHYSIOL.—E. J. Hewitt, BSc *Lond.*, PhD D. J. D. Nicholas, DSc *Lond.*, PhD, FRIC POMOL.—E. W. Hobbis, MBE, BSc; D. L. Abbot, BSc *Lond.*; R. R. Williams, BSc; STATS.—G. M. Clarke, MA *Oxon.*; SOIL BIOL.—R. A. Webb, BA DPhil *Oxon.*; WILLOWS—K. G. Stott, BSc *Wales*. 4 Res. Assts.; 1 Recog. Teacher.

### Domestic Science

GLOUCESTERSHIRE TRAINING COLLEGE OF DOMESTIC SCIENCE, Barrack Square, Gloucester (tel.:

Gloucester 20234). For practical course for BSc (DomSc). Principal & univ. lectr. in DOM. SCI., Nancie E. Bradshaw, BA *Lond.* With the standing of teachers in the univ.: COOKERY—Molly Downes; DRESSMAKING—Irmgard B. Pick; HOUSEHOLD MANAGEMENT—Mabel Chalinor; LAUNDRYWORK—B. Vivienne Godfrey; NEEDLEWORK—Margaret N. Pincott; SCI. AND HYGIENE—Jessica D. Byett, BSc *Lond.*

### Theology

The following are members of the univ. staff for the BA in theol. subjects:

BAPTIST COLLEGE, Woodland Rd., Bristol, 8 (tel.: Bristol 20248). Principal, Rev. L. G. Champion, BD *Lond.*, DTh *Heidel.*, BA; Rev. N. S. Moon, BD MTh *Lond.*, BA.

CLIFTON THEOLOGICAL COLLEGE, Stoke House, Bristol, 9 (tel.: Bristol 682803). (C. of E.) Rev. J. A. Motyer, MA BD *Dub.*; Rev. M. R. W. Farrer, BA *Oxon.*; F. G. C. Langford, MA *Oxon.*

DIDSbury COLLEGE, Henbury Hill, Bristol (tel.: Bristol 628990). (Methodist.) Principal, Rev. F. Greeves, MA *Camb.*, BA *Manc.*; Rev. K. Grayston, MA *Oxon.* & *Camb.*; Rev. R. E. Davies, MA *Oxon.*, BA BD *Camb.*; Rev. I. Blythin, MA *Camb.*, BA *Wales*; Rev. I. H. Marshall, MA BD *Aberd.*, BA *Camb.*

TYNDALE HALL THEOLOGICAL COLLEGE, Clifton, Bristol (tel.: Bristol 33325). (C. of E.) Principal, Rev. J. Stafford Wright, MA *Camb.*; Rev. J. I. Packer, MA DPhil *Oxon.*; Rev. D. H. Tongue, MA *Camb.*; Rev. J. W. Wenham, MA *Camb.*, BD *Lond.*

WESTERN COLLEGE, Cotham, Bristol, 6 (tel.: Bristol 36042). (Congregational.) Principal, Rev. Basil H. Sims, MA BLitt *Oxon.*; Rev. W. J. Downes, MA BD *Lond.*

## GENERAL INFORMATION

Univ. Coll., Bristol, was establd. in 1876 and in 1893 the Bristol Med. School, which dates from 1833, became incorporated in it. The univ. received its charter in 1909.

**CONSTITUTION.** The court, comprising some 400 reps. of local authorities and organizations, learned institutions, benefactors, staff and grads., meets annually to receive a report from council, pass accounts and a balance sheet, appoint univ. officers and amend ordinances. Executive control rests during the yr. with council, whose 46 members are nominated by court, the local authorities of the region, the Soc. of Merchant Venturers, senate, the non-professorial teaching staff and convocation. Senate, numbering over 50 and consisting of the profs. and a no. of other members of the teaching staff, controls, under council, the academic affairs of the univ. and receives reports from the fac. boards. There are 5 facs. (*see below*) each having at its head a dean, who holds office for 2 or 3 yrs. The principal academic officer of the univ. is the vice-chancellor, whose appt. is permanent. The grads. of the univ. form convocation, which meets annually and may discuss and pronounce an opinion on any matter relating to the univ.

**INCOME (1958-59).** Total income, £1,549,962 (Treasury grants, 69 per cent.; other grants and contributions for services rendered, 13 per cent.; fees, 12 per cent.; grants from local authorities, 3 per cent.; other sources, 3 per cent.).

**FACULTIES AND DEANS (1959-60).** *Arts*, Prof. D. Douglas (hist.); *engin.*, Prof. J. L. M. Morrison (mech. engin.); *law*, Prof. J. A. Coutts (jurisp.); *med.*, Prof. A. V. Neale (child health); *sci.*, Prof. C. F. Powell (phys.).

**UNIVERSITY PRECINCT.** The facs. of arts and law are chiefly housed in the main bldg., which was opened in 1925; it includes the library and admin. offices and its tower occupies a commanding site close to, but well above, the centre of the city. In the same area are most of the scientific depts., incl. the H. H. Wills phys. lab. (opened in 1927 and now extended) and Queen's Bldg. (opened in 1958 and housing the depts. of maths., geol., civil engin., mech. engin., electr. engin., aero engin. and theoret. mechs.), and the site for a new med. sch. Canynge Hall, within easy reach, accommodates the depts. of pathol., publ. health and bacteriol. The vet. field station, opened in 1952, is at Langford, Somerset.

**LIBRARY.** 244,600 vols. other than pamphlets (including arts 135,350; sci. 52,750; med. 41,050; engin. 11,400; law 4050). Sp. collections: British local hist. and records; early Engl. novels; Engl. philos. writers; courtesy books; hist. of educn.; early Engl. dictionaries; cartography; landscape gardening; Maria Mercer phys. libr.; Exley mathl. libr.; Worsley chem. libr. (including early works on chem. and

alchemy); Wigglesworth ornithol. collection; early med. books and works on mineral waters and spas.

**LABORATORIES, ETC.** *Anat.*, bacteriol., bot., org. chem., phys. & inorg. chem., engin. (civil, mech., electr. & aeron.), geol., pathol., pharmacol., phys., physiol., vet. anat., vet. physiol., vet. surg., zool.; geol. museum. Long Ashton res. stn. (agric.), *see* p. 851. Hort. sci. labs. Univ. bot. garden at Bracken Hill.

**TEACHING HOSPITALS.** Clin. study is undertaken in the United Bristol Hosps. (comprising the Bristol Royal H., Univ. of Bristol Dental H., Bristol Royal H. for Sick Children, Bristol Eye H. and Bristol Maternity H.) and partly in the following hosps. under the control of the S.-W. Regional Hosp. Bd.: Southmead H., Ham Green H., Bristol Mental Hosps., Stoke Park Colony and Winsley Sanatorium.

**INSTITUTE OF EDUCATION** (*see also* p. 850) Founded in 1947 to supervise the trg. of teachers and generally to foster work in the field of educn. in the region. *Associated institutions*: Univ. Dept. of Educn.; Coll. of S. Matthias, Fishponds, Bristol; W. of England Coll. of Art, Bristol; City of Bath Trg. Coll.; Domestic Sci. Trg. Coll., Bath; City of Bath Academy of Art; St. Paul's Trg. Coll., Cheltenham; St. Mary's Trg. Coll., Cheltenham; Gloucestershire Trg. Coll. of Dom. Sci., Gloucester; Diocesan Trg. Coll., Salisbury; Redland Trg. Coll., Bristol

**ADMISSION.** *See* Appendix II.

**FIRST DEGREES.** BA, BA(Econ), BSc, BSc in Engin., LLB—3 yrs., incl. at least 2 in the univ.; MB ChB—5 yrs. after passing 1st exam. in phys., chem. and biol., incl. at least 3 in the univ.; BDS—4½ yrs. after passing 1st exam. in phys., chem. and biol., incl. at least 3 in the univ.; BVSc—4 yrs. after passing 1st exam. in phys., chem. and biol., incl. at least 3 in the univ.

All degrees except BSc(DomSc) (3 yrs. after Inter.) may be awarded with hons.

**Courses for BA:** *general* (3 subjs. for 3 yrs., 4th subj. for 1st yr.) or *special* (Greek, Greek & Engl., Latin, Latin & French, Latin & Spanish, classics, classics & drama, French, French & drama, French & Spanish, German, German & drama, Spanish, Spanish & drama, Engl., hist., hist. & econ., geog., econ., econ. & acctg., econ. & govt., philos., philos. & psychol., philos. & Engl. lit., philos. & French, philos. & econ., philos., classics, maths., theol.). Courses for BA(Econ) include econ. and a mod. lang.

**Courses for BSc:** *general* (1 subj. for 3 yrs. with 2 subjs. for 2 yrs., or with one subj. for 2 yrs. and one for 1 yr., and with course on devel. of sci.) or *special* (maths., phys., chem., biological chem., geol., geog., bot., zool., anat., physiol., psychol., microbiol.). Candidates are no longer admitted to *ordinary* BSc curriculum but students may be transferred to it.

**Intermediate Year.** Intermediate BSc may be taken as preparatory yr. by certain students not qualified for direct entry to honours course. Candidates with good qualifs. in arts subjs. who wish to transfer to sci. at univ. may also be admitted to inter. yr.

The univ. does not award EXTERNAL DEGREES.

**HIGHER DEGREES.** All (except BMus and DMus) open to grads. of other univs. who have been engaged in res. in the univ. for a prescribed period. BMus, 1 yr. from BA general; MA—2 yrs. from BA, 3 yrs. for non-grad. if sp. permission given; MSc (in sci. or engin.)—2 yrs. from BSc, 1 yr. for honours grad. of Bristol; ChM—2 yrs. from MB ChB; MDS—2 yrs. from BDS; LL.M—2 yrs. from LL.B. PhD (all facs. except law)—2 yrs. from 1st degree (all facs.); open in exceptional cases to non-grads. in facs. of sci., med. and engin. DMus—5 yrs. from BMus; DLitt, DSc (in sci. or engin.), LLD—6 yrs. from 1st degree incl. 3 yrs. res. in univ. in case of those not Bristol grads.; MD—2 yrs. from MB ChB.

**DIPLOMAS.** Educn. (for qualified teachers), 1 yr.; pub. health, 1 yr.; soc. studies, 1 yr. postgrad.; LDS, 4 yrs.

**CERTIFICATES.** Educn., 1 yr. postgrad.; course of advanced trg. for residential staff of children's homes and schs. for deprived, delinquent and handicapped children, 1 yr.; appld. soc. studies, 1 yr.; testamur in bacteriol. & microbiol., 1 yr. postgrad.

**POSTGRADUATE COURSE** (not leading to any formal qualif.) in medical physics, 1 yr., open to grads. in phys. Fee: £47.

**ENGLISH FOR FOREIGN STUDENTS.** Foreign students whose native lang. is not Engl. and who can satisfy the univ. that their knowledge of Engl. is sufficient may be admitted to pt.-time courses in Engl. (including a 2-hr. weekly course consisting of Engl. phonetics and informal classes in the reading and speaking of Engl.) and in a limited no. of other subjects in facs. of arts and sci. No dipl. is awarded, but a cert. of attendance is given. Fees: £10 a session or £4 a term.

**RESEARCH.** Facilities for res. in all depts. The Colston Res. Soc. devotes the proceeds of an annual collection to a symposium and to the promotion of res. in the univ.

**FEES.** *Inclusive annual fees* (covering tuition, exam., graduation and membership of students' union). BA, BA(Econ), BMus, dipl. in soc. studies, £57; cert. in appld. soc. studies, £62; dipl. in educn., £61; BSc, BSc(DomSc), £67; BSc in maths., £57; MB ChB, BDS, LDS, BVSc, £67; BSc in engin., £67; LL.B, £57. Postgrad. fees (figs. in brackets are for grads. of univs. other than Bristol): MA, LL.M, £22 (£28); MSc, £42; ChM, MDS, £26 (£27); PhD in arts or maths., £37 (£39); in other facs., £47; DMus, DLitt, DSc, MD, LLD, £26; cert. in educn., £57; testamur in bacteriol. &

microbiol., £27; res. in sci. not for a degree, £32; DPH, £68.

**ACADEMIC YEAR.** Oct. to July, 3 terms of 10 or 10½ weeks each.

**EXTRA-MURAL STUDIES** (see also 'Teaching Staff', *above*). Organized through univ. dept. of extra-mural studies. Schemes of co-operation with W.E.A., all educn. authorities in univ. region and Community Council of Gloucestershire. Jt. scheme for Dorset in collab. with Univ. of Southampton; associated with Wilts. in Urchfont Manor Residential Coll. for adults (tutor seconded to coll. staff). 3 resident tutors organize univ. activities in each county. 2 resident tutors responsible for work in Bristol. 2 staff tutors with responsibility for promotion of studies in biol. and the phys. scis. 2 staff tutors for services educn.

**VACATION COURSES.** Summer sch., arranged annually by dept. of adult educn. in conjunction with W.E.A., is held in Wills Hall for 2 weeks and normally attracts about 100 students, incl. a no. from abroad. Subjs. include art, econ., biol., psychol. and pol. Residential courses are also arranged in sp. subjs., e.g. archæological field survey, and for the services.

**OPEN ENTRANCE AWARDS.** Each candidate accepted for admission is regarded as a candidate for one of up to 21 open entrance scholps. and 12 open entrance exhibitions. These awards are eligible for supplementation by the Ministry of Educn.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**APPOINTMENTS BOARD**, 21 Berkeley Sq., Bristol 8 (tel.: Bristol 24161). For sec., see 'Admin. and Other Staff', *above*. The bd. provides information and advice to undergrads. and grads. and offers assistance in finding suitable employment. 1958-59, 472 permanent appts., incl. govt. depts., 22 men, 10 women; local govt., regional bds., public corps. and institutions, 31 m., 9 w.; comm. and industry, 191 m., 45 w.; schs., univs. and tech. colls., 64 m., 56 w.; misc., 28 m., 16 w.

**FOR FORMER STUDENTS** there is an assocn. of alumni. Sec.—E. G. Beynon, BSc, 31 Bromley Drive, Downend, Bristol.

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', *above*.) For women (fees: £150 p.a.): Clifton Hill House, Clifton Hill, Bristol 8 (tel.: Bristol 36274), 139 students; Manor Hall, Clifton, Bristol 8 (tel.: Bristol 36604), 202 students. For men (fees: £165 p.a.): Wills Hall, Stoke Bishop, Bristol 9 (tel.: Bristol 68-1544), 186 students; Burwalls, Leigh Woods, Bristol 8 (tel.: Bristol 36089), 66 students. Churchill Hall, Stoke Bishop, Bristol 9 (tel.: Bristol 68-4219), 317 students. Accommod. officers provide addresses of approved lodgings. Common rooms provided for Haldane and Fry Socs., for men and women not living in Halls.



**UNIVERSITY NAVAL CONTINGENT.** C.O. : Commander N. Macnaughton-Wainwright. Embodied in Severn Div. R.N.V.R. with H.Q. aboard H.M.S. *Flying Fox*. Sea trg. carried out in ships of Royal Navy in long vac. and in coastal mine-sweeper attached as tender to H.M.S. *Flying Fox* during session.

**OFFICERS TRAINING CORPS.** O.C. : Col. A. M. Graves. Infantry, Royal Signals, and Women's Royal Army Corps sub-units. Basic trg. for cert. 'B' is followed by specialist trg. in signal unit or infantry unit.

**UNIVERSITY AIR SQUADRON.** O.C. : Squadron Leader K. N. Rice. Flying trg. provided for students preparing for commissioned service in R.A.F. During term, flying trg. given at R.A.F. Station, Filton, and continuous trg. takes place during 2 wks. of the long vac.

**STUDENTS' HEALTH SERVICE.** Students admitted to the univ. are required to have an annual chest X-ray exam. and to undergo a med. exam. in each of the first 3 undergrad. yrs. The exams. are conducted by med. officers appointed by the univ. and are free of cost to students. The med. officers are also available for free consultation by students. The univ. has provided Woodland House, West Park, Bristol 8 (tel. : Bristol 37716), near the union and main univ. bldgs., for use as a health centre, with facilities for physical trg., squash and fives.

**THE UNIVERSITY UNION** is the student body of the univ. It has facilities for its various clubs and

activities at the Victoria Rooms, Bristol 8 (tel. : Bristol 34383 ; permanent sec., 34460).

**STUDENT ATHLETIC FACILITIES.** 38½ acres of playing fields at Coombe Dingle, Bristol 9. Tennis and squash courts at several halls of residence. 2 gymnasias in union. Rowing at Saltford, 7 miles from Bristol. Clubs include : archery, assocn. football, badminton, basket ball, boxing, cricket, cross country running, fencing, fives, golf, hockey, judo, lacrosse, netball, rifle, rugby football, sailing, ski, squash, swimming, table tennis, tennis. 2 lectrs. in phys. educn (see p. 846) organize games and athletics.

**PUBLICATIONS.** *Calendar* (Oct.), 10s. 6d. post free ; *General Prospectus* incl. regns. for matric. ; fac. *Prospectuses* ; annual *Report* of council to court ; prospectuses of halls of residence, depts of drama, educn., music ; *Fellowships, Scholarships and Prizes* ; annual *Report* of dept. of adult educn. ; *Univ. of Brist. Register* (lists of former and present officers, profs., hon. grads. and grads of the univ.), 10s. 6d. net, 11s. 4d. post free ; *Gazette* (Oct., Jan. & April ; 3 issues, 3s. 6d. post free) ; students' mag., *Nonesuch*, 1s. 6d. ; *The Life of a University* by Basil Cottle & J. W. Sherborne (Arrowsmith, 1959), 12s. 6d. net, 13s. 2d. post free ; *The Jubilee Research Publicn.* (an account of res. work conducted in the univ., 1954-59), 8s. 6d. net, 9s. 2d. post free.

**PUBLICATIONS COMMITTEE.** Establd. in 1953 under standing orders of council to arrange for publicn. of works under auspices of the univ.

## THE YEAR 1959

**NEW CHAIR.** Theoret. mech.

**RETIREMENTS.** O. D. Kendall (Warden of Wills Hall and sp. lectr. in geog.) ; Dr. H. H. Potter (phys.).

**RESIGNATIONS.** Dr. A. R. Billings (electr. engin.), apptd. to chair of electr. engin., W. Aust. ; Dr. P. M. Biggs (vet. pathol.) ; Dr. J. Black (aeron. engin.) ; I. W. Cameron (dent. surg.) ; Dr. B. Crossland (mech. engin.), apptd. to chair of mech. engin., Belf. ; Dr. P. K. Feyerabend (philos.) ; N. L. Garlick (electr. engin.) ; Dr. R. S. Harris (anat.) ; Dr. M. Holmes (civil engin.) ; N. St. G. Hyslop (vet. pathol.) ; Dr. J. A. Laing (vet. sci.), apptd. to chair of animal husb., Lond. ; Dr. D. G. Lyon (dent. surg.) ; Dr. J. W. Mitchell (phys.), apptd. to chair of phys., Virginia ; Dr. R. L. Russell (electr. engin.), apptd. to chair of electr. engin., Durh. ; Dr. Scott Simpson (geol.), apptd. to chair of geol., Exe. ; Dr. Agnes H. Wilkinson, physician-in-charge of health service.

**DEATHS.** Mrs. Germaine S. Mason (lectr. in French) ; E. A. W. Houghton (tutor in radiodag.)

**HONORARY DEGREES.** *LLD*—The Lord Sinclair of Cleve ; Sir Reginald Verdon Smith ; Emer. Prof. A. Robertson ; Emer. Prof. A. M. Tyndall. *DLitt*—Rt. Hon. The Lord Evershed ; Prof. A. D. Momigliano. *DSc*—Sir Geoffrey Taylor ; Prof. C. M. Yonge. *MD*—Prof. Robert Platt. *DSc in Engin.*—Dr. B. N. Wallis.

## Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	2272	102
Women . .	955	47
<b>Total</b>	<b>3227</b>	<b>149</b>

Distribution by Faculties. *Arts*, 1258 ; *engin.*, 351 ; *law*, 118 ; *med.*, 569 (incl. dent., 123 ; vet. sci., 117) ; *sci.*, 931. Total : 3227.

*Included in the figures above are :—*

Postgraduate students, 433.

New admissions (undergraduate), 925.

Students from other countries, 246. (Countries from which largest numbers came : India, 16 ; Kenya, 12 ; Nigeria, 22 ; Germany, 35 ; Norway, 13 ; U.S.A., 14).

DEGREES AWARDED (1958-59). *Arts* : BA, 259 ; BA(Econ), 3 ; MA, 8 ; MA in educn., 3. *Engin.* :

BSc, 100 ; MSc, 2. *Law* : LLB, 43. *Med.* : MB ChB, 51 ; BDS, 15 ; BVSc, 29 ; MD, 6. *Sci.* : BSc, 214 ; BSc(DomSc), 4 ; MSc, 9 ; DSc, 2. PhD (all facs.) : 67. Total number of first degrees awarded, 718.

DIPLOMAS AWARDED (1958-59). DipEd, 5 ; LDS, 5 ; DPH, 7 ; dipl. in plant pathol. & protection, 3.

CERTIFICATES AWARDED (1958-59). Testamur in soc. studies, 19 ; CertEd, 155 ; testamur in bacteriol. & microbiol., 1.

# UNIVERSITY OF CAMBRIDGE\*

Founded in the 13th century

Postal Address : Cambridge, England

Telephone (Registry) : Cambridge 58933 (For telephone numbers of university departments, see p. 889)

CHANCELLOR—Marshal of the Royal Air Force the Rt. Hon. the LORD TEDDER, GCB, Hon. LLD, Hon. Fellow of Magdalene College

VICE-CHANCELLOR—Professor H. BUTTERFIELD, Hon. DLit *Belf.*, Hon. LLD *Aberd.*, Hon. DLitt *N.U.I.*, Hon. LittD *Harv. & Col.*, MA, Master of Peterhouse

HIGH STEWARD—The Rt. Hon. R. A. BUTLER, [Pemb.], CH, Hon. DCL *Oxon.*, Hon. LLD *Nott., Brist., Sheff., St. And. & Camb.*, MA

DEPUTY HIGH STEWARD—The Rt. Hon. the LORD MORTON OF HENRYTON, [Joh.], MC, Hon. LLD *Glas., St. And. & Camb.*, MA

COMMISSARY—The Rt. Hon. the LORD McNAIR, [Cai.], CBE, Hon. LLD *Glas., Liv., Birm. & Salonika*, Hon. DCI, *Oxon.*, Hon. DLitt *R'dg.*, LLD, FBA

ORATOR—L. P. WILKINSON, [King's], MA, FRSL

REGISTRARY—R. M. RATTENBURY, [Trin.], MA

SECRETARY GENERAL OF THE FACULTIES—H. M. TAYLOR, [Cla.], CBE, MSc *N.Z.*, MA PhD

LIBRARIAN—H. R. CRESWICK, [Jes.], MA *Oxon. & Camb.*

TREASURER—A. E. L. PARNIS, [King's], BSc(Econ) *Lond.*, MA

DIRECTOR OF THE FITZWILLIAM MUSEUM AND MARLAY CURATOR—C. WINTER, [Trin.], MA

## TEACHING STAFF

The abbreviation in square brackets denotes the college of which the teacher is a present member. The names of those teachers who are also heads or fellows of colls. are repeated in the coll. entries on pp. 870-882. The names of colls. are indicated by abbreviations as follows:

Cai.	Gonville and Caius College	Fitzw.	Fitzwilliam House	Pemb.	Pembroke College
Cath.	St. Catharine's College	Girton	Girton College	Pet.	Peterhouse
Chr.	Christ's College	Jes.	Jesus College	Qu.	Queens' College
Chur.	Churchill College	Joh.	St. John's College	Selw.	Selwyn College
Cla.	Clare College	King's	King's College	Sid.	Sidney Sussex College
Corp.	Corpus Christi College	Magd.	Magdalene College	Tr. H.	Trinity Hall
Down.	Downing College	New H.	New Hall	Trin.	Trinity College
Emm.	Emmanuel College	Newn.	Newnham College		

### Aerial Photography

St. Joseph, J. K. S., [Selw.], MA PhD Curator

### Aeronautics, see Engineering

### Agriculture, see below

### Altaic Languages, see Oriental Studies

### Anatomy

Boyd, J. D., [Cla.], MD *Belf.*, MA, FLS Prof.  
Millen, J. W., [Joh.], MD *Belf.*, MA Reader  
Bull, M. M., [Qu.], MD Lectr.  
Ford, E. H. R., [Selw.], MD Lectr.

Green, H. L. H. H., [Sid.], MD Lectr.  
Hughes, A. F. W., [Selw.], ScD Lectr.  
Lever, J. D., [Trin.], MD Lectr.  
Monro, P. A. G., [Joh.], MD Lectr.  
Pratt, C. W. McE., [Tr. H.], MB ChB *Manc.*, MA Lectr.  
Shute, C. C. D., [Chr.], MD Lectr.  
Towers, B., [Jes.], MB ChB *Liv.*, MA Lectr.  
Woollam, D. H. M., [Emm.], MD Lectr.  
Wright, G. H., [Cla.], MD Lectr.  
Lewis, P. R., [Corp.], DPhil *Oxon.*, MA  
*Oxon. & Camb.* Asst. Dir. of Research  
Horn, G., [King's], BSc MB ChB *Birm.*, MA Demr.

Sims, R. T., [Joh.], BSc MB BS *Lond.*,  
MA Demr.  
Fozzard, J. A. F., [Cla.], MA Tech. Officer

### Anglo-Saxon, etc.

Whitlock, Dorothy, [Newn.] MA *Oxon.*,  
LittD, FBA, FSA, FRHistS  
Elrington & Bosworth Prof.  
Bromwich, Mrs. Rachel S., [Newn.], MA Lectr.  
Hunter Blair, P., [Emm.], MA Lectr.  
Hughes, Kathleen W., [Newn.], PhD *Lond.*,  
MA *Lond. & Camb.*  
(Early Hist. & Culture of British Isles) Lectr.  
Bullivant, F. J., [Selw.], BA Asst. Lectr.  
Ozanne, Mrs. Audrey E., [Girton], MA  
PhD Asst. Lectr.

### Animal Health, Animal Pathology, Animal Surgery, see Veterinary Studies

### Anthropology

Fortes, M., [King's], PhD *Lond.*, MA *Oxon. & Camb.* (Soc. A.) William Wyse Prof.  
Leach, E. R., [Cla.], MA (Soc. A.) Reader  
Fortune, R. F., [Emm.], MSc *N.Z.*, MA Lectr.  
Goody, J. R., [Joh.], MA PhD Lectr.  
Jones, G. I., [Jes.], MA *Oxon. & Camb.* Lectr.  
Trevor, J. C., [Emm.], BSc *Oxon.*, MA PhD Lectr.  
Brothwell, D. R., BSc *Lond.* (Phys. A.) Demr.  
Coles, J. M., [Fitzw.], PhD *Edin.* Asst. Lectr.  
Southwold, M., [Joh.], MA PhD  
(Soc. A.) Asst. Lectr.

### Arabic, see Oriental Studies

### Aramaic, see Oriental Studies

### Archæology, see also Classical Archæol., Classics, Oriental Studies

Clark, J. G. D., [Pet.], ScD, FBA Disney Prof.  
Daniel, G. E., [Joh.], MA PhD Lectr.  
McBurney, C. B. M., [King's], MA PhD,  
FSA Lectr.  
Higgs, E. S., [Magd.], BComm *Lond.*,  
MA Asst. in Res.

### Architecture

Martin, Sir J. Leslie, [Jes.], PhD *Manc.*,  
MA *Manc. & Camb.*, FRIBA Prof.  
Bicknell, P., [Jes.], MA Lectr.  
Dyson, W. P., [Trin.], MA Lectr.  
Hardy, A. C., BArch *Durh.*, MA Lectr.  
Little, M. E., [Tr. H.], BA *Manc.*, MA Lectr.  
Roberts, D. W., [Magd.], MA Lectr.  
Wilson, C. A. St. J., [Chur.], MA Asst. Lectr.  
Rowe, C., [Qu.], BArch *Liv.*,  
MA *Lond. & Camb.* Asst. Lectr.

### Art

Bony, J. V. E. P. M., [Joh.], LèsL *Paris*, MA  
Slade Prof. of Fine Art

Jaffé, A. M., [King's], MA  
(Hist. of Art) Asst. Lectr.

### Assyriology, see Oriental Studies

### Astrophysics

Redman, R. O., [Joh.], MA PhD, FRS  
Prof., Dir. of Observatories  
Linfoot, E. H., [Joh.], DSc *Oxon.*, ScD  
Asst. Dir. of Observatories, John Couch  
Adams Astronomer  
..... Asst. Dir., Solar Phys. Observatory  
von Klüber, H., [Joh.], DrPhil *Berl.*, MA  
Observer in Solar Magnetism

### Sr. Asst. Observers

Argue, A. N., [Cai.], BA *Dub.*, MA  
Beer, A., [Cai.], DrPhil *Berl.*, MA  
Dewhirst, D. W., [Chr.], MA PhD

### Jr. Asst. Observer

Willstrop, R. V., [Emm.], MA PhD

### Tech. Officer

Beggs, D. W., [Trin.], MA

### Biochemistry

Young, F. G., [Tr. H.], PhD DSc *Lond.*, MA,  
FRS, FRIC Sir W. Dunn Prof.  
Gale, E. F., [Joh.], ScD, FRS  
(Chem. Microbiol.) Prof.  
Needham, N. J. T. M., [Cai.], ScD, FRS  
Sir W. Dunn Reader  
Dixon, M., [King's], ScD, FRS  
(Enzyme B.) Reader  
Dixon, H. B. F., [King's], MA PhD Lectr.  
Korner, A., [Cla.], MA PhD Lectr.  
McQuillen, K., [Chur.], MA PhD Lectr.  
Northcote, D. H., [Joh.], PhD *Lond.*, MA Lectr.  
Randle, P. J., [Tr. H.], MA PhD MB BChir Lectr.

Smith, G. H., [Qu.], PhD *Lond.*, MA Lectr.  
Webb, E. C., [Cla.], MA PhD Lectr.  
Bailey, K., [Trin.], ScD, FRS Asst. Dir. of Res.  
Bendall, D. S., [King's], MA PhD Demr.  
Chappell, J. B., [Cai.], BA PhD Demr.  
Newton, Mrs. Alison A., [Newn.], MA  
PhD Demr.  
Tubbs, P. K., [Cai.], MA Demr.  
Davison, S. H. H., BSc *Lond.* Tech. Officer

### Biology

Wigglesworth, V. B., [Cai.], CBE, MD, FRS  
Quick Prof.

### Biophysics, see Physiol.

### Botany, see also Agriculture, below

Godwin, H., [Cla.], ScD Prof.  
Barker, J., [Trin.], MA PhD, FRS  
(Plant Physiol.) Reader  
Corner, E. J. H., [Sid.], MA, FRS  
(Plant Taxon.) Reader  
Gilmour, J. S. L., [Cla.], MA, FLS  
Dir. of Botanic Garden  
Coombe, D. E., [Chr.], MA PhD Lectr.

Evans, G. C., [Joh.], MA PhD	Lectr.	Sugden, T. M., [Qu.], MA PhD	Reader
Garrett, S. D., [Magd.], ScD (Mycol.)	Lectr.	Agar, J. N., [Sid.], MA PhD	Lectr.
Hudson, H. J., PhD <i>Sheff.</i>	Lectr.	Ashmore, P. G., [Chur.], MA PhD	Lectr.
Pigott, C. J., [Emm.], MA PhD	Lectr.	Moelwyn-Hughes, E. A., [Corp.], ScD	Lectr.
Rishbeth, J., [Chr.], MA PhD	Lectr.	Purnell, J. H., [Tr. H.], PhD <i>Wales &amp; Camb.</i>	Lectr.
Sporne, K. R., [Down.], MA PhD	Lectr.	MA	Lectr.
West, R. G., [Cla.], MA PhD	Lectr.	Thrush, B. A., [Emm.], MA PhD	Asst. Dir. of Res.
Whitehouse, H. L. K., [Qu.], MA PhD	Lectr.	Callear, A. B., [Emm.], PhD <i>Birm. &amp; Camb.</i> , MA	Demr.
Grubb, P. J., [Magd.], BA	Demr.	Jenkins, D. R., [Chr.], MA PhD	Demr.
Hopwood, D. A., [Joh.], MA PhD	Demr.	Guttridge, J., BSc <i>S'ton.</i>	Tech. Officer
Pitman, M. G., [Joh.], MA PhD	Demr.	Oldershaw, G. A., [Emm.], BA	Asst. in Res.
Walters, S. M., [Joh.], MA PhD			

Curator of Herbarium

George, E. A., [Down.], MA  
Curator of Culture Collection of Algae  
& Protozoa

Canny, M. J. P., [Joh.], MA PhD  
Sr. Asst. in Res.

Yeo, P. F., [Qu.], MA (Taxon.) Sr. Asst. in Res.  
Churchill, D. M., BSc *W.Aust.*

Sr. Asst. in Quaternary Res.

Willis, E. H., [Cla.], MA PhD  
Sr. Asst. in Quaternary Res.

Younger, R. W., [Pet.], MA  
Tech. Officer in Botanic Garden

Pearson, R. G., [Cla.], BA  
Asst. in Quaternary Res.

**Chemical Engineering**, see Engineering

**Chemistry**, see also Biochem., Chem.,  
Physical and Chem., Theoret.

Todd, Sir Alexander R., [Chr.], DSc Hon.  
LLD *Glas.*, Hon. DrRerNat *Kiel*, Hon.  
DSc *Lond.*, *Exe. & Leic.*, DPhil *Oxon.*,  
DrPhil *Fran.*, MA, FRS, FRIC

(Org. C.) Prof.

Emeléus, H. J., [Sid.], CBE, DSc *Lond.*,  
MA, FRS (Inorg. C.) Prof.

Mann, F. G., [Trin.], DSc *Lond.*, ScD, FRS,  
FRIC (Org. C.) Reader

Brown, D. M., [King's], BSc *Glas.*, PhD  
Lectr.

Clark, V. M., [Cai.], MA PhD  
Lectr.

Harley-Mason, J., [Corp.], ScD  
Lectr.

Kipping, F. B., [Joh.], MA PhD  
Lectr.

Maddock, A. G., [Cath.], PhD *Lond.*, ScD  
Lectr.

Maitland, P., [Jes.], PhD  
Lectr.

Saunders, B. C., [Magd.], ScD  
Lectr.

Sharpe, A. G., [Jes.], MA PhD  
Lectr.

Sykes, P., [Chr.], PhD  
Lectr.

Sheppard, N., [Trin.], MA PhD  
(Spectroscopy) Asst. Dir. of Res.

Cromartie, R. I. T., [Cla.], MA PhD  
Demr.

Ebsworth, E. A. V., [King's], MA PhD  
Demr.

Green, M. L. H., PhD *Lond.*  
Demr.

Katritzky, A. R., [Chur.], BSc MA  
DPhil *Oxon.*, PhD Demr.

Prince, R. H., [Joh.], PhD *Lond.*, MA Demr.

Reese, C. B., [Cla.], MA PhD Demr.

Waddington, T. C., [Cai.], MA PhD Demr.

Bason, R. H., [Joh.], MA Tech. Officer

**Chemistry, Physical**

Norrish, R. G. W., [Emm.], ScD, FRS, FRIC  
Prof.

**Chemistry, Theoretical**

Longuet-Higgins, H. C., [Corp.], DPhil *Oxon.*,  
MA, FRS J. H. Plummer Prof.

Boys, S. F., [Trin.], PhD Lectr.

Orgel, L. E., [Pet.], DPhil *Oxon.*, MA  
Asst. Dir. of Res.

Carrington, A., [Down.], BSc PhD *S'ton.*  
Asst. in Res.

**Chinese**, see Oriental Studies**Classical Archaeology**

Toynbee, Jocelyn M. C., [Newn.],  
DPhil *Oxon.*, MA, FSA, FBA Laurence Prof

Cook, R. M., [Cla.], MA Laurence Reader

**Classics**, see also Hist., Anc.

Page, D. L., [Jes.], MA *Oxon. & Camb.*,  
FBA (Gk.) Regius Prof.

Brink, C. O., [Cai.], DrPhil *Berl.*,  
MA *Oxon. & Camb.* (Lat.) Kennedy Prof.

Griffith, G. T., [Cai.], MA, FBA  
(Anc. Hist.) Laurence Reader

Camps, W. A., [Pemb.], MA Lectr.

Chadwick, J., [Down.], MA Lectr.

Coleman, R. G. G., [Emm.], MA Lectr.

Crook, J. A., [Joh.], MA Lectr.

Deas, H. T., [Cai.], MA Lectr.

Duke, Alison, [Girton], MA Lectr.

Finley, M. I., [Jes.], PhD *Col.*, MA Lectr.

Kenney, E. J., [Pet.], MA Lectr.

Howland, R. L., [Joh.], MA Lectr.

Ker, A., [Trin.], MA *Oxon. & Camb.* Lectr.

Kirk, G. S., [Tr. H.], DSC, MA Lectr.

Lacey, W. K., [Cath.], MA Lectr.

Lec, A. G., [Joh.], MA Lectr.

Lucas, D. W., [King's], MA  
P. M. Laurence Reader, Lectr.

Morrison, J. S., [Chur.], MA Lectr.

Papastavrou, S. J., [Pemb.], BA *Oxon.*,  
MA *Glas. & Camb.* (Mod. Gk.) Lewis Gibson Lectr

Peck, A. L., [Chr.], MA PhD Lectr.

Plommer, W. H., [Corp.], MA DPhil *Oxon.*,  
PhD Lectr.

Raven, J. E., [King's], MA Lectr.

Reynolds, Joyce M., [Newn.],  
MA *Oxon. & Camb.* Lectr.

Sandbach, F. H., [Trin.], MA  
Brereton Reader, Lectr.

**6 Jr. Res. Officers**

**Economics, Farm, see Agriculture, below****Education**

- Lloyd, W. A., [Trin.], MA *Birm.*, PhD Prof.  
 Thouless, R. H., [Corp.], ScD  
 (Educnl. Psychol.) Reader  
 Boulind, H. F., [Cla.], PhD *Lond.*, MA Lectr.  
 Ingram, W. G., [Cath.], BA *Lond.*, MA Lectr.  
 Wilman, Margaret A., [Girton], MA *Oxon.*  
 & *Camb.* Dir. of Women Students, Lectr.  
 Bradshaw, Doris, [Girton], MA *Oxon.* &  
*Camb.* Sr. Deptl. Lectr.  
 Gladwell, Constance W. L., [Newn.],  
 PhD *Lond.*, MA Sr. Deptl. Lectr.  
 Harries, S. G., [Jes.], MA Sr. Deptl. Lectr.  
 Hunt, A. G., [Pet.], MA Sr. Deptl. Lectr.  
 Williams, Hilda, [Girton], MA Sr. Deptl. Lectr.  
 Bottrall, Mrs. Margaret F. S., [Newn.],  
 MA *Oxon.* Deptl. Lectr.  
 Kellaway, W. G., BSc *Lond.*, MA Deptl. Lectr.  
 Roach, J. P. C., [Corp.], MA PhD Deptl. Lectr.  
 Tulasiewicz, W. F., BA *Wales* Deptl. Lectr.

**Egyptology, see Oriental Studies****Engineering, see below****English, see also Anglo-Saxon**

- Willey, B., [Pemb.], Hon. LittD *Manc.*,  
 MA, FBA, FRSL  
 (Engl. Lit.) King Edward VII Prof.  
 Lewis, C. S., [Magd.], Hon. DD *St. And.*,  
 Hon. Dèsl *Laval*, MA *Oxon.* & *Camb.*,  
 FBA, FRSL  
 (Mediæv. & Renaissance Engl.) Prof.  
 Leavis, F. R., [Down.], BA PhD Reader  
 Lucas, F. L., [King's], OBE, MA Reader  
 Bennett, Mrs. Joan, [Girton], MA Lectr.  
 Bradbrook, Muriel C., [Girton], LittD Lectr.  
 Bromwich, J. I., [Joh.], MA Lectr.  
 Daiches, D., [Jes.], MA DPhil *Oxon.*, PhD Lectr.  
 Davie, D. A., [Cai.], MA PhD Lectr.  
 Davies, H. S., [Joh.], MA Lectr.  
 Henn, T. R., [Cath.], CBE, MA  
 (Poetry & Drama) Lectr.  
 Hodgart, M. J. C., [Pemb.], MA Lectr.  
 Holloway, J., [Qu.], DLitt *Aberd.*, DPhil *Oxon.*,  
 MA *Oxon.* & *Camb.*, FRSL Lectr.  
 Hough, G. G., [Chr.], MA Lectr.  
 Northam, J. R., [Cla.], MA PhD Lectr.  
 Potts, L. J., [Qu.], MA Lectr.  
 Redpath, R. T. H., [Trin.], MA PhD Lectr.  
 Rylands, G. H. W., [King's], MA Lectr.  
 Salter, Mrs. Elizabeth, [Newn.], MA *Lond.*  
 & *Camb.* Lectr.  
 Stevens, J. E., [Magd.], MA PhD Lectr.  
 Broadbent, J. B., [King's], PhD Asst. Lectr.  
 Spearing, A. C., [Cai.], BA Asst. Lectr.  
 Watson, G. G., [Joh.], MA *Oxon.* & *Camb.*  
 Asst. Lectr.  
 Winny, J., [Selw.], MA Asst. Lectr.

**Enzyme Biochemistry, see Biochem.****Estate Management, see Agriculture, below****French**

- Harmer, L. C., [Trin.], Lèsl *Bordeaux*,  
 MA PhD Drapers Prof.  
 Barrère, J. B. M., [Joh.], Dèsl *Paris*,  
 MA (Fr. Lit.) Prof.  
 Aston, S. C., [Cath.], MA PhD Lectr.  
 Beves, D. H., [King's], MA Lectr.  
 Charvet, P. E., [Corp.], MA Lectr.  
 Combe, T. G. S., [Pemb.], DU *Bordeaux*,  
 MA *Edin.* & *Camb.* Lectr.  
 de Mourgues, Mme. Odette M. H. L.,  
 [Girton], PhD Lectr.  
 Fairlie, Alison A. B., [Girton], MA  
 DPhil *Oxon.*, PhD Lectr.  
 James, E. D., [Joh.], MA PhD Lectr.  
 Ladborough, R. W., [Magd.], MA PhD Lectr.  
 Leigh, R. A., [Trin.], BA *Lond.*, MA Lectr.  
 McFarlane, I. D., [Cai.], MBE, DU *Paris*,  
 MA *St. And.* & *Camb.* Lectr.  
 Parmée, D., [Qu.], MA Lectr.  
 Rickard, P., [Emm.], MA DPhil *Oxon.*, PhD  
 Lectr.  
 Topsfield, L. T., [Cath.], MA PhD  
 (also Provençal) Lectr.  
 Wallas, May G., [Newn.], PhD *Lond.*,  
 MA *Lond.* & *Camb.* Lectr.  
 2 Lectors

**Genetics**

- Thoday, J. M., [Emm.], BSc *Wales*, PhD  
 Arthur Balfour Pr  
 Owen, A. R. G., [Trin.], MA PhD Lectr.  
 Pateman, J. A. J., PhD *Lond.* Lectr.  
 Bodmer, W. F., [Cla.], MA PhD Demr.  
 Parsons, P. A., [Joh.], PhD Demr.  
 Wallace, Mrs. Margaret E., [Girton], MA  
 PhD Sr. Asst. in Res.

**Geodesy and Geophysics**

- Browne, B. C., [Trin.], MA  
 (Exper. Geophys.) Reader  
 Stoneley, R., [Pemb.], ScD, FRS  
 (Theoret. Geophys.) Reader  
 Bullard, Sir Edward C., [Chur.], MA PhD  
 ScD, FRS (Geophys.) Reader  
 Jackson, J. E., [Joh.], MA (Geod.) Lectr.  
 Hill, M. N., [King's], MA PhD Asst. Dir. of Res.  
 Belshé, J. C., [Chr.], MS *Wis.*, MA  
 Sr. Asst. in Res.

**Geography**

- Steers, J. A., [Cath.], MA Prof.  
 Caesar, A. A. L., [Cath.], MA Lectr.  
 Farmer, B. H., [Joh.], MA Lectr.  
 Grove, A. T., [Cath.], MA Lectr.  
 Lewis, W. V., [Trin.], MA Lectr.  
 Mitchell, Jean B., [Newn.], MA Lectr.  
 Smith, C. T., [Cath.], MA Lectr.  
 Sparks, B. W., [Jes.], BA *Lond.*, MA Lectr.  
 Steers, Mrs. Harriet G., [Girton], MA Lectr.  
 Williams, W. W., [Fitzw.], MA Lectr.  
 Wrigley, E. A., [Pet.], MA PhD Lectr.  
 Board, C., [Trin.], BA *Lond.*, MA Demr.  
 Chorley, R. J., [Emm.], MA *Oxon.* & *Camb.* Demr.

Jaggett, P., [Cath.], MA Demr.  
 John, G. de Q., [Cai.], MSc *Melb.*,  
 PhD *Birm.*, MA Dir., Scott Polar Res. Inst.  
 Armstrong, T. E., [Magd.], MA PhD  
 Asst. Dir. of Polar Res.  
 Joldgate, M. W., [Qu.], MA PhD  
 Asst. Dir. of Polar Res.  
 Evans, S., [Joh.], PhD *Manc.*, MA  
 Sr. Asst. in Polar Res.

### Geology, see also Mineral.

Kulman, O. M. B., [Sid.], PhD *Lond.*, ScD,  
 FRS, FGS Woodwardian Prof.  
 Black, M., [Trin.], MA Lectr.  
 Black, W. W., [Cla.], PhD *Leeds*, MA Lectr.  
 Brighton, A. G., [Chr.], MA  
 Curator of Sedgwick Museum, Lectr.  
 Farland, W. B., [Cai.], MA Lectr.  
 Ley, R. W., [Chur.], MA PhD Lectr.  
 Hughes, N. F., [Qu.], MA Lectr.  
 Friend, P. F., [Cai.], BA Demr.  
 Hudson, J. D., [Magd.], MA Demr.  
 Jarwood, G., [Cath.], PhD *Lond.*, MA Demr.  
 Jarwood, M. J. S., [Trin.], MA PhD  
 Sr. Asst. in Res.  
 Forbes, C. L., [Cla.], MA PhD  
 Asst. Curator of Sedgwick Museum

### Geophysics, see Geodesy

### German

Ruford, W. H., [Joh.], Hon. LLD *Aberd.*,  
 MA Schröder Prof.  
 Knight, A. H. J., [Trin.], MA Reader  
 Gray, R. D., [Emm.], MA PhD Lectr.  
 Green, D. H., [Trin.], MA Lectr.  
 Jones, T. D., [Jes.], MA Lectr.  
 Fern, J. P., [Joh.], MA PhD Lectr.  
 Topp, F. J., [Cai.], MBE, PhD *Lond.*, MA Lectr.  
 Revellman, C. H., [King's], MA Lectr.  
 Wisbey, R. A., [Down.], DrPhil *Fran.*,  
 MA Lectr.  
 Johnson, L. P., [Pemb.], BA *Durh.*,  
 PhD *Kiel*, MA Asst. Lectr.  
 Lectr.

### Hebrew, see Oriental Studies

### History, see also Classics and Oriental Studies

Nowles, Rev. M. C., [Pet.], Hon. DLitt  
*Oxon. & Brist.*, LittD, FBA, FSA  
 (Mod. H.) Regius Prof.  
 Hadwick, Rev. W. O., [Selw.], DD  
 (Eccles. H.) Dixie Prof.  
 Jones, A. H. M., [Jes.], MA *Oxon. & Camb.*,  
 FBA, FSA (Anc. H.) Prof.  
 Rich, E. E., [Cath.], MA  
 (Imperial & Naval H.) Vere Harmsworth  
 Prof.  
 Eastan, M. M., [Pet.], MSc *Lond.*, MA  
 (Econ. H.) Prof.  
 Atterfield, H., [Pet.], Hon. DLit *Belf.*,  
 Hon. LLD *Aberd.*, Hon. DLitt *N.U.I.*,  
 Hon. LittD *Harv. & Col.*, MA  
 (Mod. H.) Prof.

Cheney, C. R., [Corp.], MA *Oxon. & Camb.*,  
 FBA (Mediæv. H.) Prof.  
 Mansergh, P. N. S., [Joh.], OBE, BLitt  
 MA DPhil *Oxon.*, PhD  
 (H. of Brit. Commonwealth) Smuts Prof.  
 Bishop, T. A. M., [Joh.], MA  
 (Palæog. & Diplomatic) Reader  
 Grierson, P., [Cai.], MA, FSA, FBA  
 (Mediæv. Numismatics) Reader  
 Kitson Clark, G. S. R., [Trin.], LittD  
 (Constitutional H.) Reader  
 Ullmann, W., [Trin.], JuD *Vienna &*  
*Innsbruck*, LittD  
 (Mediæv. Eccles. Instns.) Reader  
 Behrens, Catherine B. A., [Newn.], MA *Oxon.*  
 & *Camb.* Lectr.  
 Bennett, R. F., [Magd.], MA Lectr.  
 Brock, W. R., [Selw.], MA PhD  
 (American H.) Lectr.  
 Bury, J. P. T., [Corp.], MA Lectr.  
 Crawley, C. W., [Tr. H.], MA Lectr.  
 Elton, G. R., [Cla.], PhD *Lond.*, MA *Lond. &*  
*Camb.*, LittD Lectr.  
 Evennett, H. O., [Trin.], MA Lectr.  
 Fisher, D. J. V., [Jes.], MA Lectr.  
 Forbes, D., [Cla.], MA Lectr.  
 Gallagher, J., [Trin.], MA  
 (Colonial Studies) Lectr.  
 Hibbert, A. B., [King's], MA Lectr.  
 Hinsley, F. H., [Joh.], MA Lectr.  
 Hoskin, M. A., [Pet.], MA *Lond.*, PhD  
 (H. of Sci.) Lectr.  
 Joslin, D. M., [Pemb.], MA Lectr.  
 Kenyon, J. P., [Chr.], PhD Lectr.  
 Laslett, T. P. R., [Trin.], MA Lectr.  
 McDonald, A. H., [Cla.], LLD *Glas.*, MA  
 PhD (Anc. H.) Lectr.  
 Mack Smith, D., [Pet.], MA Lectr.  
 Mathias, P., [Qu.], MA Lectr.  
 Miller, E., [Joh.], MA Lectr.  
 Morris, G. C., [King's], MA Lectr.  
 Plumb, J. H., [Chr.], LittD Lectr.  
 Purcell, V. W. S., [Trin.], LittD Lectr.  
 Robinson, R. E., [Joh.], MA PhD Lectr.  
 Saltmarsh, J., [King's], MA, FSA Lectr.  
 Smail, R. C., [Sid.], MBE, MA PhD Lectr.  
 Street, J., [Emm.], MA PhD  
 (Latin-American Studies) Lectr.  
 Thomson, D., [Sid.], MA PhD Lectr.  
 White, R. J., [Down.], MA Lectr.  
 Wilson, C. H., [Jes.], MA Lectr.  
 Wormald, B. H. G., [Pet.], MA Lectr.  
 Best, G. F. A., [Tr. H.], MA PhD Asst. Lectr.  
 Elliott, J. H., [Trin.], MA PhD Asst. Lectr.  
 Hinton, R. W. K., [Pet.], MA PhD Asst. Lectr.  
 MacDonagh, O. O. G. M., [Cath.], MA  
 PhD Asst. Lectr.  
 Parkin, C. W., [Cla.], MA Asst. Lectr.  
 Vaughan, R., [Corp.], MA PhD Asst. Lectr.

### History and Institutions, American

Rossiter, C. L., AB *Corn.*, AM PhD *Prin.*,  
 LLD *Kenyon* Pitt Prof. (1960-61)  
 Blackmur, R. P., LittD *Prin.*  
 Pitt Prof. (1961-62)



**Human Ecology**, see *Medicine*

**Indian Studies**, see *Oriental Studies*

**Industrial Management**

Willett, F. J., [Fitzw.], MA Asst. Dir. of Res.

**Industrial Relations**

Kirkaldy, H. S., [Qu.], LLB *Edin.*, MA  
Montague Burton Prof.

**Iranian Studies**, see *Oriental Studies*

**Italian**

Vincent, E. R. P., [Corp.], CBE, MA  
DPhil *Oxon.*, LittD Prof.

Brand, C. P., [Tr. H.], MA PhD Lectr.

Foster, Rev. F. S., [Chr.], MA PhD Lectr.

Limentani, U., [Corp.], PhD *Lond.*, DLitt  
LLD *Milan*, MA Lectr.

Reynolds, Barbara, [Girton], BA PhD *Lond.*,  
MA Lectr.

1 Lector

**Japanese**, see *Oriental Studies*

**Latin, Mediæval**

Brittain, F., [Jes.], LittD Lectr.

**Law**

Duff, P. W., [Trin.], MA (Civil L.) Regius Prof.

Wade, E. C. S., [Cai.], QC, Hon. DCL *Durh.*,  
LLD, FBA

(Laws of England) Downing Prof.

Jennings, R. Y., [Jes.], MA LLB

(Internat. L.) Whewell Prof.

Bailey, S. J., [Joh.], LLD

(Engl. L.) Rouse Ball Prof.

Hamson, C. J., [Trin.], MA LLM

(Compar. L.) Prof.

Jackson, R. M., [Joh.], LLD

(Public L. & Admin.) Reader

Wade, H. W. R., [Trin.], LLD (Engl. L.) Reader

Williams, G. L., [Jes.], LLD, FBA

(Engl. L.) Reader

Armitage, A. L., [Qu.], MA LLB Lectr.

Ashton-Cross, D. I. C., [Joh.], BL *Edin.*,  
MA Lectr.

Bowett, D. W., [Down.], PhD *Manc.*, LLB  
Lectr.

Dias, R. W. M., [Magd.], MA LLB Lectr.

Ellis Lewis, T., [Tr. H.], BA LLB *Wales*,  
PhD Librarian, Squire Law Library, Lectr.

Gooderson, R. N., [Cath.], MA Lectr.

Hall, J. C., [Joh.], MA LLB Lectr.

Jolowicz, J. A., [Trin.], MA Lectr.

King, B. E., [Pemb.], MA LLB Lectr.

Lauterpacht, E., [Trin.], MA LLB Lectr.

Lipstein, K., [Cla.], PhD Lectr.

Odgers, F. J., [Emm.], MA LLB Lectr.

Parry, C., [Down.], LLD Lectr.

Prichard, M. J., [Cai.], MA LLB Lectr.

Scott, K., [Joh.], MA LLB Lectr.

Thornely, J. W. A., [Sid.], MA Lectr.

Wedderburn, K. W., [Cla.], MA LLB Lectr.

Whalley-Tooker, H. C., [Down.], MA

*Oxon. & Camb.*, LLM Lectr.

Wilson, G. P., [Qu.], MA LLB Lectr.

Yale, D. E. C., [Chr.], MA LLB Lectr.

Bradley, A. W., [Tr. H.], BA LLB Asst. Lectr.

Sealy, L. S., [Cai.], PhD Asst. Lectr.

Turpin, C. C., [Chr.], MA LLB Asst. Lectr.

**Logic**, see *Philos.*

**Mathematical Laboratory**

Wilkes, M. V., [Joh.], MA PhD, FRS Dir.

Miller, J. C. P., [Trin.], ScD Lectr.

Swinerton-Dyer, H. P. F., [Trin.], MA Lectr.

Wheeler, D. J., [Trin.], BA PhD

Asst. Dir. of Res.

Mutch, E. N., [King's], BSc *Lond.*, MA

Tech. Officer

Mutch, Mrs. Margaret O., [Girton], MA

Asst. in Res.

**Mathematics**

Hodge, Sir William, [Pemb.], Hon. DSc *Brist.*,  
*Leic. & Sheff.*, Hon. LLD *Edin.*, MA

*Edin.*, ScD, FRS

(Astron. & Geom.) Lowndean Prof.

Hall, P., [King's], MA, FRS

(Pure M.) Sadleirian Prof.

Davenport, H., [Trin.], MA *Manc.*, ScD,

FRS Rouse Ball Prof.

Cartwright, Mary L., [Girton], DPhil *Oxon.*,

Hon. LLD *Edin.*, Hon. DSc *Leeds &*

*Hull*, ScD, FRS

(Theory of Functions) Reader

Ingham, A. E., [King's], MA, FRS

(Mathl. Analysis) Reader

Todd, J. A., [Down.], BA PhD, FRS

(Geom.) Reader

Atiyah, M. F., [Pemb.], MA PhD Lectr.

Babbage, D. W., [Magd.], OBE, MA PhD Lectr.

Burkill, J. C., [Pet.], ScD, FRS Lectr.

Cassels, J. W. S., [Trin.], PhD Lectr.

Grimshaw, Margaret E., [Newn.], MA

Lectr.

Smithies, F., [Joh.], BA PhD Lectr.

Steen, S. W. P., [Chr.], MA Lectr.

Taunt, D. R., [Jes.], MA PhD Lectr.

Walker, A. M., [Sid.], MA

Dir., Statistical Lab., Lectr.

Ward, A. J., [Emm.], BA PhD Lectr.

White, F. P., [Joh.], MA Lectr.

Whittle, P., [Emm.], PhD *Uppsala*, MA

Lectr.

Williamson, J. H., [King's], PhD Lectr.

Zeeman, E. C., [Cai.], MA PhD Lectr.

Adams, J. F., [Tr. H.], MA PhD Asst. Lectr.

**Mathematics, Applied**, see also *Phys.*

Dirac, P. A. M., [Joh.], BSc *Brist.*, PhD,

FRS Lucasian Prof.

Hoyle, F., [Joh.], MA, FRS

(Astron. & Exper. Philos.) Plumian Prof.

Batchelor, G. K., [Trin.], PhD, FRS

(Fluid Dynamics) Reader

Lyttleton, R. A., [Joh.], MA PhD, FRS  
(Theoret. Astron.) Reader  
 Buneman, O., [Pet.], PhD *Manc.*, MA Lectr.  
 Eden, R. J., [Cla.], MA PhD Lectr.  
 Friedlander, F. G., [Trin.], BA PhD Lectr.  
 Lapwood, E. R., [Emm.], MA PhD Lectr.  
 Mestel, L., [Joh.], BA PhD Lectr.  
 Pars, L. A., [Jes.], MA Lectr.  
 Polkinghorne, J. C., [Trin.], MA PhD Lectr.  
 Powell, F. C., [Cai.], MA PhD Lectr.  
 Proudman, I., [Trin.], PhD Lectr.  
 Ursell, F., [King's], ScD Lectr.

**Mechanical Sciences**, see Engineering,  
below

**Medicine and Surgery**, see below

**Metallurgy**

Cottrell, A. H., [Chr.], PhD *Birm.*, MA,  
FRS Goldsmiths' Prof.  
 Charles, T. A., BSc *Lond.* Lectr.  
 Hoar, T. P., [Sid.], MA PhD Lectr.  
 Kelly, A., [Chur.], PhD Lectr.  
 Smith, G. C., [Pemb.], MA Lectr.  
 Chilton, J. P., [Cla.], MA PhD Demr.  
 Nicholson, R. B., [Cath.], MA PhD Demr.

**Mineralogy and Petrology**

Tilley, C. E., [Emm.], Hon. DSc *Manc.*,  
PhD, FRS Prof.  
 Nockolds, S. R., [Trin.], PhD, FRS  
(Geochem.) Reader  
 Agrell, S. O., [Tr. H.], BA PhD Lectr., Curator  
 Evans, R. C., [Cath.], MA PhD Lectr.  
 Gay, P., [Down.], MA PhD Lectr.  
 Henry, N. F. M., [Joh.], PhD Lectr.  
 McConnell, J. D. C., [Fitzw.], MSc *Belf.*,  
MA PhD Lectr.  
 Muir, I. D., [Joh.], BA PhD Lectr.  
 Kelsey, Christine H., [Girton], MA PhD Demr.  
 Le Bas, M. J., [Emm.], PhD Demr.  
 McIver, E. J., [Cath.], BSc *Durh.* Demr.  
 McKie, D., [Jes.], MA Demr.  
 Scoon, J. H., BSc *Lond.*, MA Tech. Officer

**Moral Science**, see Philos.

**Music**

Hadley, P. A. S., [Cai.], MusD, FRM Prof.  
 Dart, R. T., [Jes.], BA *Lond.*, MA Lectr.  
 Guest, G. H., [Joh.], MA MusB Lectr.  
 Leppard, R. J., [Trin.], MA Lectr.  
 Radcliffe, P. F., [King's], MA MusB Lectr.  
 Franchell, P. A., [Cai.], MA MusB Lectr.  
 Willcocks, D. V., [King's], MC, MA MusB,  
FRCO Lectr.  
 Le Huray, P. G., [Cath.], MA PhD  
MusB Asst. Lectr.  
 Sudworth, C. L. E., [Cai.], MA  
Curator, Pendlebury Library

**Mycology**, see Agriculture, below, and Botany

**Norwegian**

Popperwell, R. G., [King's], MA PhD Lectr.

**Oriental Studies**, see below

**Parasitology**

Tate, P., [Chr.], ScD  
 Dir. of Molteno Inst., Reader  
 Tatchell, R. J., [Qu.], BSc *Lond.*, PhD  
 Asst. in Res.

**Pathology**, see Medicine, below

**Persian**, see Oriental Studies, below

**Petrology**, see Mineral.

**Pharmacology**, see Medicine, below

**Philology, Comparative**

Allen, W. S., [Trin.], MA PhD Prof.

**Philology, Romance**

Cremona, J., [Cath.], BA *Lond.*, MA Lectr.

**Philosophy**

Braithwaite, R. B., [King's], MA, FBA  
 (Moral P.) Knightbridge Prof.  
 Wisdom, A. J. T. D., [Trin.], MA Prof.  
 Ewing, A. C., [Tr. H.], LittD Reader  
 Bennett, J. F., [Magd.], MA N.Z. & *Camb.* Lectr.  
 Lewy, C., [Trin.], MA PhD Sidgwick Lectr.  
 Buchdahl, G., [King's], MA *Melb.* & *Camb.*  
 (Philos. of Sci.) Lectr.  
 Hesse, Mary B., [Girton], PhD *Lond.*, MA  
 (Philos. of Sci.) Asst. Lectr.  
 Smiley, T. J., [Cla.], MA PhD Asst. Lectr.

**Philosophy, Ancient**

Guthrie, W. K. C., [Down.], LittD, FBA  
 Laurence Prof.

**Phonetics**

Trim, J. L. M., [Cath.], BA *Lond.*, MA Lectr.

**Physics**, see also Mathematics, Applied

Frisch, O. R., [Trin.], OBE, DSc DPhil *Vienna*,  
 MA, FRS (Nat. Philos.) Jacksonian Prof.  
 Mott, N. F., [Cai.], Hon. DSc *Brist.*, *Grenoble*,  
*Louvain*, *Paris* & *Poitiers*, MA, FRS  
 (Exper. P.) Cavendish Prof.  
 Pippard, A. B., [Cla.], MA PhD, FRS  
 J. H. Plummer Prof.  
 Ryle, M., [Trin.], MA, FRS  
 (Radio Astron.) Prof.  
 Bowden, F. P., [Cai.], DSc *Tas.*, ScD, FRS  
 (P. & Chem. of Solids) Reader  
 Shire, E. S., [King's], MA Reader  
 Shoenberg, D., [Cai.], BA PhD, FRS Reader  
 Taylor, W. H., [Trin.], MA (Crystallog.) Reader  
 Ashmead, J., [Trin.], MA PhD Lectr.  
 Budden, K. G., [Joh.], MA PhD Lectr.

Robson, P., [Qu.], MA	Lectr.	Cohen, H., [Qu.], MA	Lectr.
Switzer, J. F. Q., [Sid.], MA	Lectr.	Cooper, B., [Cla.], MA	Lectr.
Holister, F. D., MA(Archit) <i>Harv.</i> , MA	Demr.	Cooper, M. G., [Joh.], MA	Lectr.
Stewart, Vivienne F., [Newn.], MA <i>St.And.</i> & <i>Camb.</i>	Asst. Lectr.	Deakin, C. S., [Qu.], MA	Lectr.
Godfrey, Mary, BA MCD <i>Liv.</i>	Asst. in Res.	Dwight, J. B., [Corp.], MA MSc	Lectr.
Kolbert, C. F., [Cath.], BA	Asst. in Res.	Dykes, P. de K., [King's], MA	Lectr.
21 Advisory Officers		Fortescue, R. L., [Cla.], MA	Lectr.
		Fox, T. R. C., [King's], MA	Lectr.
		Frankl, E. K., [Tr. H.], MA	Lectr.
		French, M. J., [Cath.], MA	Lectr.
		Gregory, R. W., [Cath.], MA	Lectr.
		Grensted, P. E. W., [Chr.], MA PhD	Lectr.
		Grigson, C. W. B., [Trin.], MA PhD	Lectr.
		Hammond, P., [Emm.], MA	Lectr.
		Harris, H. S. L., [Joh.], MA	Lectr.
		Haywood, R. W., [Fitzw.], MA	Lectr.
		Heyman, J., [Pet.], MA PhD	Lectr.
		Jaeger, L. G., [Magd.], MA	Lectr.
		Johnson, R. P., [Selw.], MA	Lectr.
		Johnson, K. L., [Jes.], MSc <i>Manc.</i> , MA	Lectr.
		Leckie, F. A., [King's], PhD <i>Stan.</i> , MA	Lectr.
		Livesley, R. K., [Chur.], MA	Lectr.
		Lubbock, J. K., [Qu.], BSc <i>Lond.</i> , MA	Lectr.
		Marples, D. L., [Tr. H.], MA	Lectr.
		Middleton, G. E., [Down.], MA	Lectr.
		Pascoe, K. J., [Joh.], MA	Lectr.
		Percival, A. L., [Jes.], MA	Lectr.
		Prentis, J. M., [Qu.], PhD <i>Lond.</i> , MA	Lectr.
		Reddaway, J. L., [Emm.], MA	Lectr.
		Robinson, F. D., [Cath.], MA	Lectr.
		Roscoe, K. H., [Emm.], MC, MA	Lectr.
		Sander, K. F., [Trin.], BSc <i>Lond.</i> , MA PhD	Lectr.
		Schofield, A. N., [Chr.], MA	Lectr.
		Shaw, J. C. S., [Corp.], MA	Lectr.
		Shercliff, J. A., [Trin.], MA PhD	Lectr.
		Sutton, E. P., [Pemb.], MA	Lectr.
		Taylor, D. B. C., [Pet.], PhD <i>Belf.</i> , MA	Lectr.
		Welbourn, D. B., [Selw.], MA, MIMechE	Lectr.

### Farm Economics

Sturrock, F. G., [Trin.], BSc <i>Glas.</i> , MA	Dir.
Barnard, C. S., [Qu.], MA	Sr. Res. Officer
Joy, J. L., BSc <i>Lond.</i>	Sr. Res. Officer
Nix, J. S., BSc(Econ) <i>Lond.</i>	Sr. Res. Officer
Wallace, D. B., [Qu.], MA	Sr. Res. Officer
Belshaw, D. G. R., [Selw.], MA	Res. Officer
Graves, P. E.	Res. Officer
Hinton, W. L., BA <i>Manc.</i>	Res. Officer
James, P. G., [King's], MA <i>Wales</i>	Res. Officer
Kurta, Mrs. Janet S., BSc <i>Durh.</i>	Jr. Res. Officer
Camm, B. M., [King's]	Jr. Res. Officer
Smith, Mrs. Enid, [New H.]	Jr. Res. Officer

### Forestry

Thompson, C. H., [Qu.], MA	Gurney Lectr.
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### Soil Microbiology

Tribe, H. T., PhD <i>Lond.</i> , MA	Sr. Asst. in Res.
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### Soil Physics

Childs, E. C., [Cla.], ScD	Asst. Dir. of Res.
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### Soil Science

McGowan, M., [Down.]	Asst. in Res.
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## ENGINEERING

Baker, J. F., [Cla.], OBE, Hon. DSc <i>Leeds</i> , DSc <i>Wales</i> , ScD, FRS, MICE (Mechanical Scis.) Prof., Hd., Dept. of Engin.		Whitehead, D. S., [Cai.], MA PhD	Lectr.
Hawthorne, W. R., [Trin.], CBE, MA, FRS, FRAeS, MIMechE (Appl. Thermodyn.) Hopkinson & I.C.I. Prof.		Wood, M. D., [Cai.], MA PhD	Lectr.
Oatley, C. W., [Trin.], MA	(Electr. E.) Prof.	Brooke Benjamin, T., [King's], BEng <i>Liv.</i> , Meng <i>Yale</i> , PhD (Fluid Mech.) Asst. Dir. of Res.	
.....	(Mech.) Prof.	Freitag, E. H., [Down.], PhD	Asst. Dir. of Res.
Binnie, A. M., [Trin.], MA, FRS	Reader	Jones, R. P. N., [Joh.], MA PhD	Asst. Dir. of Res.
Coales, J. F., [Sid.], MA	Reader	Nixon, W. C., [Trin.], PhD	Asst. Dir. of Res.
Davies, R. D., [Chr.], MA PhD	Reader	Fallside, F., [Jes.], BSc <i>Edin.</i> , PhD <i>Wales</i> , MA	Sr. Asst. in Res.
Fox, E. N., [Trin.], ScD	Reader	Banks, P. J., [Cai.], BMechE <i>Melb.</i>	Sr. Asst. in Res.
Rhoden, H. G., [Joh.], MA	Reader	Cowley, M. D., [Joh.], BA	Sr. Asst. in Res.
Angus, R. H., [Sid.], MA	Lectr.	Fuller, A. T., [Pet.], MA	Sr. Asst. in Res.
Beck, A. H., [Qu.], BSc <i>Lond.</i> , MA	Lectr.	Maul, D. J., [Down.], BSc <i>Lond.</i> , MA	Sr. Asst. in Res.
Biggs, W. D., [Chr.], PhD <i>Birm.</i> , MA	Lectr.	Sherbourne, A. N., [Tr. H.], MSc(CivEng) <i>Lehigh</i> , BSc <i>Lond.</i> , MA	Sr. Asst. in Res.
Brookes, A. M. P., [Joh.], MA	Lectr.	Turner, P. W., [Cai.], MA	Design Engineer
Brooks, J. H., [Cath.], MA	Lectr., Supt. of Engin. Workshops	Calladine, C. R., [Pet.], MA	Demr.
Burrell, C. M., [Trin.], BSc <i>Leeds</i> , MA	Lectr.	Payne, D. J., [Cai.], MA	Demr.
Charlton, T. M., [Sid.], BSc <i>Lond.</i> , MA	Lectr.	Radley, D. E., [Qu.], MA	Demr.
Chilver, A. H., [Corp.], BSc PhD <i>Brist.</i> , MA	Lectr.	Chigier, N. A., [Qu.], BSc <i>Rand</i> , MA	Asst. in Res.

Christ, Gina M., [Girton], MA Asst. in Res.  
 Lieberknecht, Mary B., MA *Ohio* Asst. in Res.

### Aeronautics

Mair, W. A., [Down.], MA  
 (A. Engin.) F. Mond Prof.  
 Head, M. R., [King's], MA PhD Lectr.

### Chemical Engineering

Dankwerts, P. V., [Joh.], MSc *M.I.T.*,  
 BA *Oxon.*, MA Shell Prof.  
 Armstrong, W. D., [Chur.], MA PhD Lectr.  
 Davidson, J. F., [Trin.], MA PhD Lectr.  
 Hutchison, H. P., [Sid.], MA *Oxon.* &  
*Camb.* Lectr.  
 Kenney, C. N., [Qu.], MA PhD Lectr.  
 Ratcliff, G. A., [Joh.], MA Lectr.  
 Turner, J. C. R., [Trin.], MA PhD Lectr.  
 Harrison, D., [Selw.], MA PhD Demr.  
 Nedderman, R. M., [Joh.], MA Demr.  
 Blackadder, D. A., DPhil *Oxon.* Demr.  
 Pearson, J. R. A., [Trin.], MA PhD  
 Asst. Dir. of Res.

## MEDICINE

(for Anat., Physiol., see above)

### Human Ecology

Banks, A. I., [Cai.], MD *Lond.*, MA, FRCP Prof.  
 May, L. H. H., [Trin.], MA MB BChir  
 Health Service Officer  
 Carpenter, R. G., [Joh.], MA *Oxon.* &  
*Camb.* Statistician  
 Malcolm, A. R., [Cath.] Supt. of Phys. Trg.  
 ..... Asst. in Res.

### Medicine

Mitchell, J. S., [Joh.], CBE, Hon. DSc *Birm.*,  
 MD, FRS, FFR, MRCP  
 (Physic) Regius Prof.  
 Cole, L. B., [King's], MD, FRCP  
 Dean, Postgrad. Med. Sch.  
 Haghoe, F. G. J., [Tr. H.], MD Lectr.  
 Kok, D'A., [Trin.], MD *Lond.*, BSc *Rand.*,  
 MA Lectr.  
 Wild, F., [Down.], MA PhD, FRIC Res. Chemist  
 Associate Lecturers  
 Berridge, F. R., [Trin.], MA MB BChir,  
 FFR (Radiol.)  
 Bottomley, Janet E., [Girton], MD *Lond.*,  
 MA, FRCS (Obstet. & Gynæcol.)  
 Butler, R. W., [Trin.], MD MChir,  
 FRCS (Orthop. Surg.)  
 Clark, D. H., [King's], MA (Psychiatry)  
 Cole, L. B., [King's], MD, FRCP (Physic)  
 Davies, E. B., [Cla.], MD (Psychiatry)  
 Dick, A. P., [Tr. H.], MD, FRCP (Physic)  
 Fairbank, T. J., [Trin.], MA MB BChir,  
 FRCS (Orthop. Surg.)  
 Fell, W. A., [Sid.], MA MB BChir (Phys. Med.)  
 Gairdner, D. M. T., [King's], DM *Oxon.*,  
 MA, FRCP (Pæd.)

Ghey, P. H. R., [Joh.], MChir MA, FRCS (Surg.)  
 Lloyd, O., [Chr.], MD *Lond.*, MA, FRCS,  
 FRCOG (Obstet. & Gynæcol.)  
 Martin, L. C., [Cai.], MD, FRCP (Physic)  
 Parish, C., [Sid.], MB ChB *Manc.*, MA,  
 FRCS (Thoracic Surg.)  
 Rook, A. J., [Trin.], MD (Dermatol.)  
 Rouillard, L. M., MA, FRCSEd (Plastic Surg.)  
 Truscott, B. M., [Down.], MBE, MB  
 BS *Lond.*, MA, FRCS (Surg.)  
 Walford, A. S. H., [Cai.], MA MB  
 BChir, FRCS (Otolaryngol.)  
 Whittle, C. H., [Qu.], MD, FRCP (Dermatol.)  
 Wilsdon, K. F., [Pemb.], BM BCh *Oxon.*,  
 MA *Oxon.* & *Camb.*, FRCSEd (Otolaryngol.)  
 Withycombe, J. F. R., [Pemb.], MChir (Surg.)  
 Wright, G. F., [Corp.], MA MB  
 BChir (Ophthalmol.)

### Medicine, Experimental

McCance, R. A., [Sid.], CBE, MD, FRCP,  
 FRS Prof.  
 Walshe, J. M., [Tr. H.], MA MB BChir  
 Asst. Dir. of Res.

**Mental Pathology**, see Psychol., Med.

### Pathology

Dean, H. R., [Tr. H.], Hon. LLD *Aberd.*,  
 Hon. DSc *Liv.*, DM *Oxon.*, MD,  
 FRCP Prof.  
 Greaves, R. I. N., [Cai.], MD (Bacteriol.) Reader  
 Gresham, G. A., [Cai.], MD Lectr.  
 Herbertson, B. M., [Fitzw.], MD *Durh.*,  
 MA Lectr.  
 Naylor, G. R. E., [Cai.], MD Lectr.  
 Roberts, G. F., [Jes.], MD Lectr.  
 Waterson, A. P., [Emm.], MD Lectr.  
 Coombs, R. R. A., [King's], PhD  
 Asst. Dir. of Res.  
 Ainsworth, R. W., [Corp.], MA MB BChir  
 Demr.  
 Cruickshank, J. G., [Tr. H.], MB  
 BS *Lond.*, MA Demr.  
 Kellaway, T. D., [Cath.], MA Demr.  
 Barrett, A. M., [Pemb.], MD  
 Univ. Morbid Anatomist & Histologist  
 to Addenbrooke's Hosp.  
 Chalmers, D. G., [Tr. H.], MB BS *Lond.*, MA  
 Univ. Haematologist to Addenbrooke's  
 Hosp.  
 Gleeson-White, M. H., [Tr. H.], MB BS *Lond.*,  
 MA  
 Univ. Bacteriologist to Addenbrooke's  
 Hosp.  
 Whitby, L. G., [King's], MA PhD MB BChir  
 Univ. Biochemist to Addenbrooke's  
 Hosp.  
 Fry, R. M., [Tr. H.], MA  
 Univ. Dir. of Pub. Health Lab. Service  
 Boissard, Joan M., [Girton], MA, MRCP  
 Univ. Asst. Dir. of Pub. Health Lab.  
 Service

Rack, J. H., [Cla.], MA MB BChir  
Univ. Asst. Pathologist to Addenbrooke's  
Hosp.

### Pathology, Chemical

Dixon, K. C., [King's], MD Lectr.

### Pharmacology

Verney, E. B., [Down.], MA MB BChir,  
FRCP, FRS Sheild Prof.  
Grundy, H. F., [Tr. H.], MA MB BChir Lectr.  
Howarth, F., [Down.], MD *Manc.*, MA Lectr.  
Greenway, C. V., [Cath.], BA Demr.

### Psychology, Medical

Russell-Davis, D., [Cla.], MD Reader  
Kennard, D. W., [King's], PhD Sr. Asst. in Res.  
Clarke, Mrs. Cicily M., [Girton], MB ChB  
*Aberd.*, MA Asst. in Res.

### Radiotherapeutics

Brinkley, Mrs. Diana M., [Girton], MB BS  
*Lond.*, MA  
Clin. Res. Asst. to Regius Prof. of Physic  
Marrian, D. H., [Trin.], PhD Asst. Dir. of Res.  
Smith, C. L., [Joh.], MA PhD Asst. Dir. of Res.  
Heard, Mrs. Dorothy H., [Girton],  
MB BS *Lond.*, PhD, MRCP  
Sr. Asst. in Res.  
Simon-Reuss, Mrs. Irmelin, [Newn.], MSc  
Sr. Asst. in Res.  
Falloon, S. W. H. W., [Qu.], MA Physicist  
..... Asst. in Res.

## ORIENTAL STUDIES

### Altaic Languages

Sinor, D., [Magd.], MA Lectr.

### Arabic

Arberry, A. J., [Pemb.], LittD, FBA  
Sir T. Adams's Prof.  
Lyons, M. C., [Pemb.], MA PhD Lectr.  
i Lector

### Aramaic

Goodman, A. E., [Cai.], MA Lectr.

### Assyriology

Kinnier Wilson, J. V., [Emm.], MA *Oxon.* &  
*Camb.* Eric Yarrow Lectr.

### Chinese

Pulleyblank, E. G., [Down.], BA *Alta.*,  
PhD *Lond.*, MA Prof.  
Chang, H.-C., BA *Shanghai*, PhD *Edin.*,  
MA (Mod. C.) Lectr.  
Goodrich, C. S., PhD *Calif.*  
(Classical C.) Lectr.  
i Lector

### Egyptology

Plumley, Rev. J. M., [Selw.], BA  
MLitt *Durh.*, MA H. Thompson Prof.  
Smith, H. S., [Chr.], MA Lectr.

### Far Eastern Art and Archæology

Cheng, T.-K., [King's], MA Lectr.

### Far Eastern History

van der Loon, P., [King's], Cand *Ley.*, MA  
Lectr.

### Hebrew

Thomas, D. W., [Cath.], MA *Oxon.* & *Camb.*  
Regius Prof.  
Rosenthal, E. I. J., [King's], DrPhil *Berl.*,  
LittD Reader

### Indian Studies (Art and Archæology)

Allchin, F. R., [Qu.], MA Lectr.

### Indian Studies (Prakrit)

Norman, K. R., [Down.], MA Lectr.

### Iranian Studies

Gershevitch, I., [Down.], DLitt *Rome*,  
PhD *Lond.*, MA Lectr.

### Islamic History

Dunlop, D. M., [Tr. H.], BA *Oxon.*, MA Lectr.

### Japanese

Blacker, Carmen E., [Newn.], MA *Oxon.* &  
*Camb.* Lectr.  
Ceadel, E. B., [Chr.], MA Lectr.  
i Lector

### Japanese History

Sheldon, C. D., [Down.], PhD *Calif.*,  
MA Asst. Lectr.

### Near Eastern History

Munn-Rankin, Joan M., [Newn.], MA *Oxon.* &  
*Camb.* Lectr.

### Persian

Afnan, S. M., [Pemb.], PhD Lectr.  
Avery, P. W., [King's], BA *Lond.*, MA Lectr.  
i Lector

### Rabbinics


Teicher, J. L., [Cath.], PhD *Florence*, MA Lectr.

### Sanskrit

Bailey, Sir Harold W., [Qu.], DPhil *Oxon.*,  
MA *Oxon.*, *W.Aust.* & *Camb.*, FBA Prof.

### Semitic Epigraphy

Diringer, D., [Pemb.], DLitt *Florence*, MA  
Lectr.

**Tibetan**Bailey, D. R. S., [Jes.], LittD, FBA  Lectr.**VETERINARY STUDIES****Animal Health**Bridge, P. S., [Emm.], BSc *Edin.*, MA Lectr.  
Short, R. V., [Magd.], PhD Lectr.**Animal Pathology**Beveridge, W. I. B., [Jes.], DVSc *Syd.*, MA Prof.  
Betts, A. O., [Magd.], BSc *Lond.*, MA PhD Lectr.  
Jennings, A. R., [Cla.], MVSc *Liv.*, MA Lectr.  
Soltys, M. A., [King's], PhD *Edin.*, MA Lectr.  
Soulsby, E. J. L., [Cath.], PhD DVSM *Edin.*, MA Lectr.  
Whittlestone, P., [Magd.], BSc *Lond.*, MA PhD Lectr.  
Wilson, A. A., [Cai.], MVSc *Liv.*, MA Lectr.  
Rose, Mrs. Margaret E., [Girton], PhD Demr.  
Chu, H.-p., [Trin.], PhD Asst. Dir. of Res.  
Elliott, S. D., [Cath.], MD *Lond.*, MA Asst. Dir. of Res.**Animal Surgery**

Hickman, J., [King's], MA, FRCVS Reader

**Physiology of Animal Reproduction**

Mann, T. R. R., [Tr. H.], ScD, FRS Reader

**Veterinary Anatomy**Akester, A. R., [Cath.], MA VetMB Lectr.  
Cross, B. A., [Joh.], MA PhD Lectr.  
Green, R. A., [Joh.], PhD Lectr.  
Silver, I. A., [Corp.], MA Lectr.  
Gordon, Norma P., MA Demr.**Veterinary Clinical Studies**Pugh, L. P., [Magd.], BSc *Lond.*, MA, FRCVS Prof.  
Abrams, J. T., [Magd.], PhD *Lond.*, MA Lectr.  
Douglas, S. W., MA Lectr.  
Goodwin, R. F. W., [Tr. H.], BSc *Lond.*, MA PhD Lectr.Hall, L. W., [Trin.], BSc *Lond.*, MA Lectr.  
Littlewort, M. C. G., [Magd.], BSc *Dub.*, MA Lectr.  
Pugh, P. D. S., [Qu.], MA PhD Lectr.  
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Walker, R. G., [Trin.], MA Lectr.  
Palmer, A. C., [Fitzw.], MA PhDAsst. Dir. of Res.  
Owen, L. N., BVSc *Liv.*, MA, FRCVS  
Univ. Asst. Surgeon to the Vet. Hosp.  
Walton, G. S., BVSc *Brist.*  
House Surgeon at the Vet. Sch.**Veterinary Physiology**Comline, R. S., [Cath.], MA PhD Lectr.  
Titchen, D. A., [Emm.], MA PhD Lectr.  
Silver, Mrs. Marian, [Newn.], MA Sr. Asst. in Res.**SANDARS READER**

(Bibliography)

1960-61—Roberts, C. H., MA *Oxon.***STANTON LECTURER**

(Philosophy of Religion)

1959-62—B. G. Mitchell, MA *Oxon.***EXTRA-MURAL STUDIES**Tutors, apptd. by Bd. of Extra-Mural Studies :  
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Master—B. W. Downs, Hon. DLitt Hull, MA, *Prof. of Scandinavian Studies*

#### Fellows

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Saunders, J. T., CMG, Hon. DCL Oxon., MA  
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Meade, J. E., CB, MA Oxon. & Camb., FBA,  
*Prof. (Pol. Econ.)*  
Brown, R. F. C., MSc Syd., PhD  
Cottrell, A. H., PhD Birm., MA, FRS, *Prof.*  
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Lee, D. L., BSc Durh., PhD  
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Burrow, J. W., BA  
O'Higgins, P., BA LLB Dub.  
Ebsworth, E. A. V., MA PhD, *U. Demr. (Chem.)*  
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Founded in 1960 as a memorial to the Rt. Hon. Sir Winston Churchill, KG, OM, CH, the college is especially but not wholly concerned with the advancement of science and technology. The first graduate students (about 30) come into residence in Oct. 1960 and the first undergraduates (about 80) are expected to come into residence in Oct. 1961. *Telephone* : Cambridge 51355.

Master—Sir John D. Cockcroft, OM, KCB, CBE, MScTech *Manc.*, Hon. DSc *Oxon.*, *Lond.*, *Syd.*, *A.N.U.*, *Manc.*, *Leeds*, *Birm.* & *Leic.*, Hon. LLD *Tor.*, *Glas.*, *Melb.* & *St.And.*, Hon. ScD *Dub.* & *Camb.*, MA PhD, MIEE, FIP, FRS

## Fellows

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 Ashmore, P. G., MA PhD, *Tutor for Advanced Students*, *U. Lectr.* (*Phys. Chem.*)  
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 Hey, R. W., MA PhD, *U. Lectr.* (*Geol.*)  
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 Katritzky, A. R., BSc MA DPhil *Oxon.*, PhD, *U. Demr.* (*Org. & Inorg. Chem.*)

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## Fellows

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 Baker, J. F., OBE, Hon. DSc *Leeds*, DSc *Wales*, ScD, FRS, MICE, *Prof.* (*Mech. Scis.*)  
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 Pars, L. A., MA, *President, U. Lectr. (Appl. Maths.)*  
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 Thorpe, W. H., ScD, FRS, *Reader (Animal Behaviour)*  
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 Brittain, F., LittD, *Prælector, Keeper of the Records, U. Lectr. (Mediæv. Latin)*  
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 Creswick, H. R., MA, *U. Librarian*  
 Roberts, G. F., MD, *Steward, U. Lectr. (Pathol.)*  
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Sheppard, Sir John T., MBE, Hon. LittD *Manc., Melb. & N.Z.*, Hon. LLD *St. And.*, MA

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Radcliffe, P. F., MA MusB, *U. Lectr. (Music)*

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Hill, M. N., MA PhD, *Asst. Dir. of Res. (Geodesy & Geophys.)*

Kaldor, N., BSc *Lond.*, MA, *Reader (Econ.)*

Cole, L. B., MD, FRCP, *Dean of postgrad. med. sch., U. Assoc. Lectr. (Physic)*

Dixon, M., ScD, FRS, *Reader (Enzyme Biochem.)*

Fortes, M., PhD *Lond.*, MA *Oxon. & Camb.*, *William Wyse Prof. (Soc. Anthropol.)*

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Dixon, H. B. F., MA PhD, *U. Lectr. (Biochem.)*

Gaskell, J. P. W., MA, PhD

Brown, D. M., BSc *Glas.*, PhD, *Lectr. (Org. & Inorg. Chem.)*

Sanger, F., BA PhD, FRS

Haskell, F. J. H., MA

Barlow, H. B., MA MB BChir, *Asst. Dir. of Res. (Physiol.)*

Zangwill, O. L., MA *Oxon. & Camb.*, *Prof. (Exper. Psychol.)*

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Griffith, J. S., MA

Slater, C. E. L., DSO, MA, *Bursar*

Rose, J. A., MA, *Jr. Proctor*

Cargill Thompson, W. D. J., MA PhD, *Dean*

Bolgar, R. R., MA PhD

Vidler, Rev. A. R., DD *Edin.*, LittD BD, *Dean, U. Lectr. (Div.)*

Broadbent, J. B., PhD, *Asst. Tutor, U. Asst. Lectr. (Engl.)*

Lloyd, G. E. R., MA PhD

Exton, J. A., MA MusB

Ziman, J. M., DPhil *Oxon.*, MA *Oxon. & Camb.*, *Tutor (Advanced Students), U. Lectr. (Phys.)*

Willcocks, D. V., MC, MA MusB, FRCO, *Organist, U. Lectr. (Music)*

Giangrande, G.

Parnis, A. E. L., BSc (Econ) *Lond.*, MA, *U. Treasurer*

Williamson, J. H., MA *Edin.*, PhD, *U. Lectr. (Maths.)*

Brenner, S., MSc MB BChir *Rand*, DPhil *Oxon.*, PhD

Brindley, G. S., MD, *U. Lectr. (Physiol.)*

Goldthorpe, J. H., BA *Lond.*

Polack, K., LLB MA

Turner, J. J., BA

Hamer, N. K., BA

Matthews, D. H., MA

## MAGDALENE COLLEGE

Founded in 1542 by Thomas, Baron Audley of Walden. Junior members in residence, (1959-60), 312. Telephone: Cambridge 59457.

Master—The Rt. Hon. Sir Henry U. Willink, MC, QC, Hon. LLD *Liv. & Melb.*, MA

## Fellows

Salter, F. R., OBE, MA, *Warden of Madingley Hall*  
 Morshead, Sir Owen F., GCVO, DSO, MC, CG, MA  
 King, W. B. R., OBE, MC, Hon. LittD *Harv.*, ScD, FRS  
 Richards, I. A., LittD  
 Turner, F. McD. C., MC, DFC, MA, *President, Coll. Librarian*  
 Scott, F. R. F., MA, *Tutor*  
 Babbage, D. W., OBE, MA PhD, *Tutor, U. Lectr. (Maths.)*  
 Saunders, B. C., ScD, *Prælector, U. Lectr. (Org. & Inorg. Chem.)*  
 Bennett, R. F., MA, *Tutor, U. Lectr. (Hist.)*

Ladborough, R. W., MA PhD, *Dean, Pepsysian Librarian, U. Lectr. (French)*  
 Burnet, J. F., MA, *Bursar, Steward*  
 Stevens, J. E., MA PhD, *Tutor, U. Lectr. (Engl.)*  
 Hughes, G. M., MA PhD, *U. Lectr. (Zool.)*  
 Pugh, L. P., BSc *Lond.*, MA, FRCVS, *Prof. (Vet. Clin. Studies)*  
 Lewis, C. S., Hon. DD *St. And.*, Hon. Dèsl, *Laval*, MA *Oxon. & Camb.*, FBA, FRSL, *Prof. (Mediæv. & Renaissance Engl.)*  
 Dias, R. W. M., MA LLB, *U. Lectr. (Law)*  
 Roberts, D. W., MA, *U. Lectr. (Archit.)*  
 Jaeger, L. G., MA, *U. Lectr. (Engin.)*

## PEMBROKE COLLEGE

Founded in 1347 as the Hall of Valence-Mary by Mary de St. Paul, widow of Aymer de Valence, Earl of Pembroke. Henry VI was a liberal benefactor, and obtained the name of second Founder. Junior members in residence (1959-60), 428. Telephone: Cambridge 59486.

Master—Sir William Hodge, Hon. DSc *Brist., Leic. & Sheff.*, Hon. LLD *Edin.*, MA *Edin.*, ScD, FRS, *Lowndean Prof. of Astron. & Geom.*

## Fellows

Roberts, Sir Sydney C., Hon. LLD *St. And.*, MA, FRSL  
 Pennell, V. C., MA MB BChir, FRCS  
 King, B. E., MA LLB, *U. Lectr. (Law)*  
 Camps, W. A., MA, *Tutor, U. Lectr. (Classics)*  
 Rowe, J. W. F., MC, MSc *Lond.*, MA, *U. Lectr. (Econ.)*  
 Willey, B., Hon. LittD *Manc.*, MA, FBA, FRSL, *President, King Edward VII Prof. (Engl. Lit.)*  
 Dewey, Rev. M. B., MA, *Asst. Tutor, Dean*  
 Stoneley, R., ScD, FRS, *Reader (Theoret. Geophys.)*  
 Hutton, W. S., MA, *Asst. Tutor, Treasurer & Bursar*  
 Arberry, A. J., LittD, FBA, *Sir T. Adams's Prof. (Arabic)*  
 Combe, T. G. S., DUBordeaux, MA *Edin. & Camb.*, *Asst. Tutor, U. Lectr. (French)*

Hodgart, M. J. C., MA, *Librarian, U. Lectr. (Engl.)*  
 Joslin, D. M., MA, *Asst. Tutor, U. Lectr. (Hist.)*  
 Smith, G. C., MA, *Asst. Tutor, U. Lectr. (Metall.)*  
 Lyons, M. C., MA PhD, *U. Lectr. (Arabic)*  
 Vinen, W. F., MA PhD, *U. Demr. (Phys.)*  
 Grimstone, A. V., MA PhD  
 Atiyah, M. F., MA PhD, *U. Lectr. (Maths.)*  
 Danckwerts, P. V., GC, MBE, MA *Oxon. & Camb.*, *Shell Prof. of Chem. Engin.*  
 Sutton, E. P., MA *Oxon. & Camb.*, *Asst. Tutor, Tutorial Bursar, U. Lectr. (Engin.)*  
 Leckie, F. A., BSc *St. And.*, PhD *Stan.*, MA *U. Lectr. (Mech. Sci.)*  
 Dunham, J., MA  
 Ambler, R. P., BA  
 Posner, M. V., MA *Oxon. & Camb.*, *U. Asst. Lectr. (Econ.)*

## PETERHOUSE

Founded in 1284 by Hugh de Balsham, Bishop of Ely. Junior members in residence, (1959-60), 269. Telephone: Cambridge 50256.

Master—H. Butterfield, Hon. DLit *Belf.*, Hon. LLD *Aberd.*, Hon. DLitt *N.U.I.*, Hon. LittD *Harv. & Col.*, MA, *Prof. of Mod. Hist., Vice-Chancellor*

## Fellows

Burkill, J. C., ScD, FRS, *U. Lectr. (Maths.)*  
 Postan, M. M., MSc *Lond.*, MA, *Prof. (Econ. Hist.)*  
 Wormald, B. H. G., MA, *Tutor, U. Lectr. (Hist.)*

Brogan, D. W., MA *Glas., Oxon. & Camb.*, FBA, *Prof. (Pol. Sci.)*  
 Knowles, Rev. M. C., Hon. DLitt *Oxon. & Brist.*, LittD, FBA, FSA, *Regius Prof. (Mod. Hist.)*

Pringle, J. W. S., MBE, ScD, FRS, *Librarian, Reader (Exper. Cytol.)*  
 Sanders, Rev. J. N., MA, *Dean, Bursar, U. Lectr. (Div.)*  
 Kendrew, J. C., MA PhD, FRS  
 Mack Smith, D., MA, *U. Lectr. (Hist.)*  
 Clark, J. G. D., ScD, FBA, *Disney Prof. (Archæol.)*  
 Hinton, R. W. K., MA PhD, *U. Asst. Lectr. (Hist.)*  
 Kenney, E. J., MA, *Tutor, Librarian, U. Lectr. (Classics)*

Heyman, J., MA PhD, *U. Lectr. (Engin.)*  
 Goodwin, R. M., PhD *Harv.*, BA BLitt *Oxon.*, MA *Harv. & Camb.*, *Girdlers' Lectr. (Econ. & Pol.)*  
 Orgel, L. E., DPhil *Oxon.*, MA, *Asst. Dir. of Res. (Theoret. Chem.)*  
 Taylor, D. B. C., PhD *Belf.*, MA, *Tutor, U. Lectr. (Engin.)*  
 Wrigley, E. A., MA PhD, *Domestic Bursar, Prælector, U. Lectr. (Geog.)*  
 Calladine, C. R., MA, *U. Demr. (Engin.)*

## QUEENS' COLLEGE

Founded in 1448 by Queen Margaret of Anjou, consort of King Henry VI, and refounded in 1465 by Elizabeth Widville, consort of King Edward IV. Junior members in residence (1959-60), 426.  
 Telephone : Cambridge 50425.

President—A. L. Armitage, MA LLB, *U. Lectr. (Law)*

## Fellows

Wood, Rev. C. T., BD  
 Laffan, R. G. D., MA *Oxon. & Camb.*  
 Sleeman, C. M., MA  
 Browne, A. D., MA, *Vice-President*  
 Potts, L. J., MA, *Librarian, U. Lectr. (Engl.)*  
 Maxwell, E. A., MA PhD, *Sr. Bursar, Keeper of the College Records*  
 Ramsay, J. A., MBE, MA PhD, FRS, *Reader (Compar. Physiol.)*  
 Hart, Rev. H. St. J., BD, *Dean, U. Lectr. (Div.)*  
 Bailey, Sir Harold W., DPhil *Oxon.*, MA *Oxon.*, *W. Aust. & Camb.*, FBA, *Prof. (Sanskrit)*  
 Kirkaldy, H. S., LLB *Edin.*, MA, *Montague Burton Prof. (Indust. Relations)*  
 Parnée, D., MA, *Steward, U. Lectr. (French)*  
 Deakin, C. S., MA, *Jr. Bursar, U. Lectr. (Engin.)*

Hagenbuch, W., BA *Manc.*, MA, *Sr. Tutor, U. Lectr. (Econ.)*  
 Wilson, G. P., MA LLB, *Prælector, U. Lectr. (Law)*  
 Holloway, J., DLitt *Aberd.*, DPhil *Oxon.*, MA *Oxon. & Camb.*, FRSL, *Tutor, U. Lectr. (Engl.)*  
 Mathias, P., MA, *Tutor, U. Lectr. (Hist.)*  
 Baldwin, J. E., MA PhD, *U. Demr. (Phys.)*  
 Bull, M. M., MD, *Tutor, U. Lectr. (Anat.)*  
 Sugden, T. M., MA PhD, *Reader (Phys. Chem.)*  
 Cohen, H., MA, *Tutor for Res. Students, U. Lectr. (Engin.)*  
 Bossy, J. A., MA  
 Rowell, C. H. F., MA PhD  
 Radley, D. E., MA, *U. Demr. (Engin.)*  
 Goodyear, F. R. D., BA

## ST. CATHARINE'S COLLEGE

Founded in 1473 by Robert Wodelarke, Chancellor of the University and Provost of King's College. Junior members in residence (1959-60), 447. Telephone : Cambridge 59445.

Master—E. E. Rich, MA, *Vere Harmsworth Prof. of Imperial & Naval Hist.*

## Fellows

Steers, J. A., MA, *Prof. (Geog.)*  
 Henn, T. R., CBE, MA, *President, U. Lectr. (Poetry & Drama)*  
 Waddams, Rev. Canon C. D., BSc *Lond.*, MA, *Sr. Tutor, Hon. Chaplain*  
 Smith, S., MA PhD, *Steward, U. Lectr. (Zool.)*  
 Aston, S. C., MA PhD, *U. Lectr. (French)*  
 Thomas, D. W., MA *Oxon. & Camb.*, *Regius Prof. (Hebrew)*  
 Evans, R. C., MA PhD, *Tutor, U. Lectr. (Mineral.)*  
 Gooderson, R. N., MA, *Tutor, U. Lectr. (Law)*  
 Berrill, K. E., BSc *Lond.*, MA, *Estates Bursar, U. Lectr. (Econ.)*

Caesar, A. A. L., MA, *Tutor, U. Lectr. (Geog.)*  
 Lacey, W. K., MA, *U. Lectr. (Classics)*  
 Comline, R. S., MA PhD, *Prælector, U. Lectr. (Vet. Physiol.)*  
 MacDonagh, O. O. G. M., MA PhD, *Librarian, U. Asst. Lectr. (Hist.)*  
 Topsfield, L. T., MA PhD, *Domestic Bursar, U. Lectr. (Provençal & French)*  
 Robinson, F. D., MA, *Dean, U. Lectr. (Engin.)*  
 Le Huray, P. G., MA PhD *MusB*, *U. Asst. Lectr. (Music)*  
 Maddock, A. G., PhD *Lond.*, ScD, *U. Lectr. (Chem.)*  
 Murphy, T. G., MA PhD, *Res. Fellow (Maths.)*

## ST. JOHN'S COLLEGE

Founded in 1511 by the Lady Margaret, Countess of Richmond and Derby and mother of King Henry VII, in place of the Hospital of St. John, founded about 1135. The foundress died before her designs were completed, and sufficient funds were only obtained by the exertions and beneficence of her executor, John Fisher, Bishop of Rochester and Chancellor of the University. Junior members in residence (1959-60), 720. Telephone: Cambridge 58743.

Master—Rev. J. S. Boys Smith, MA

## Fellows

- Cunningham, E., MA  
 Jeffreys, Sir Harold, DSc *Durh.*, MA, FRS  
 Palmer, W. G., DSc *Lond.*, ScD  
 Bartlett, Sir Frederic C., CBE, MA, FRS  
 Engledow, Sir Frank L., CMG, MA, FRS  
 White, F. P., MA, *Librarian*, U. Lectr. (*Maths.*)  
 Briggs, G. E., DSc *Lond.*, MA, FRS, *President*  
 Wordie, Sir James M., CBE, MA  
 Guillebaud, C. W., CBE, MA  
 Dirac, P. A. M., BSc *Brist.*, PhD, FRS, *Lucasian Prof. (Maths.)*  
 Howland, R. L., MA, *Sr. Tutor*, U. Lectr. (*Classics*)  
 Bailey, S. J., LLD, *Rouse Ball Prof. (Engl. Law)*  
 Hollick, F. S. J., MA PhD, U. Lectr. (*Zool.*)  
 Davies, H. S., MA, U. Lectr. (*Engl.*)  
 Walker, E. A., MA *Oxon.*, *Cape & Camb.*  
 Harris, H. A., DSc MD *Lond.*, MA  
 Smithies, F., BA PhD, U. Lectr. (*Maths.*)  
 Jopson, N. B., MA  
 Evans, G. C., MA PhD, *Bldgs. Bursar*, U. Lectr. (*Bot.*)  
 Daniel, G. E., MA PhD, U. Lectr. (*Archæol. & Anthropol.*)  
 Hoyle, F., MA, FRS, *Plumian Prof. (Astron. & Exper. Philos.)*  
 Miller, E., MA, U. Lectr. (*Hist.*)  
 Rhoden, H. G., MA, *Reader (Engin.)*  
 Scott, K., MA LLB, U. Lectr. (*Law*)  
 Mitchell, J. S., CBE, Hon. DSc *Birm.*, MD, FRS, *FFR, MRCP, Regius Prof. (Physic)*  
 Hinsley, F. H., MA, *Tutor*, U. Lectr. (*Hist.*)  
 Lee, A. G., MA, *Prælector*, U. Lectr. (*Classics*)  
 Bertram, G. C. L., MA PhD, *Tutor*  
 Thistlethwaite, F., MA, U. Lectr. (*Econ.*)  
 Mordell, L. J., MSc *Manc.*, MA, FRS  
 Jackson, R. M., LLD, *Reader (Pub. Law & Admin.)*  
 Redman, R. O., MA PhD, FRS, *Prof. (Astrophys.)*  
 Budden, K. G., MA PhD, U. Lectr. (*Phys.*)  
 Brookes, A. M. P., MA, *Jr. Bursar*, U. Lectr. (*Engin.*)  
 Farmer, B. H., MA, *Tutor*, U. Lectr. (*Geog.*)  
 Gale, E. F., ScD, FRS, *Prof. (Chem. Microbiol.)*  
 Lyttleton, R. A., MA PhD, FRS, *Reader (Theoret. Astron.)*  
 Wilkes, M. V., MA PhD, FRS, *Dir. of Mathl. Lab.*  
 Ratcliff, Rev. E. C., MA *Oxon. & Camb.*, *Regius Prof. (Div.)*  
 Bambrough, J. R., MA, *Tutor*, U. Asst. Lectr. (*Classics*)  
 Matthews, R. C. O., MA *Oxon. & Camb.*, U. Lectr. (*Econ.*)  
 Crook, J. A., MA, *Tutor*, U. Lectr. (*Classics*)  
 Bruford, W. H., Hon. LLD *Aberd.*, MA, *Schröder Prof. (German)*  
 Bezzant, Rev. J. S., MA *Oxon.*, BD *Oxon. & Camb.*, *Dean*, U. Lectr. (*Div.*)  
 Hanley, F., MA, *Reader (Crop Husbandry)*  
 Robinson, R. E., MA PhD, *Tutor*, U. Lectr. (*Hist.*)  
 Kipping, F. B., MA PhD, U. Lectr. (*Org. & Inorg. Chem.*)  
 Mansergh, P. N. S., OBE, BLitt MA DPhil *Oxon.* PhD, *Smuts Prof. (Hist. of Brit. Commonwealth)*  
 Campbell, F. W., PhD MB ChB *Glas.*, MA, U. Lectr. (*Physiol.*)  
 Stern, J. P., MA PhD, U. Lectr. (*German*)  
 Hall, J. C., MA LLB, U. Asst. Lectr. (*Law*)  
 James, E. D., MA PhD, U. Lectr. (*French*)  
 Guest, G. H., MA MusB, *Organist*, U. Lectr. (*Music*)  
 Welford, Rev. A. T., MA, *Tutor*, U. Lectr. (*Exper. Psychol.*)  
 Hutchinson, Sir Joseph B., CMG, ScD, FRS, *Drapers Prof. (Agric.)*  
 Mestel, L., BA PhD, U. Lectr. (*Appl. Maths.*)  
 Barrère, J. B. M., Dèsl *Paris*, MA, *Prof. (French Lit.)*  
 Willson, A. J., MA PhD  
 Ringrose, J. R., MA PhD  
 Hopwood, D. A., MA PhD, U. Demr. (*Bot.*)  
 Silberston, Z. A., MA, U. Lectr. (*Econ.*)  
 Hinde, R. A., DPhil *Oxon.*, MA *Oxon. & Camb.*, *Tutor, Asst. Dir. of Res. (Zool.)*  
 Bony, J. V. E. P. M., Dèsl *Paris*, MA, *Slade Prof. (Fine Art)*  
 Parsons, P. A., PhD, U. Demr. (*Genetics*)  
 Pitman, M. G., MA PhD, U. Demr. (*Bot.*)  
 Millen, J. W., MD *Belf.*, MA, *Reader (Anat.)*  
 Davies, J. G. W., MA, *Sec., Univ. Appts. Bd., Sr. Proctor*  
 Henry, N. F. M., PhD, U. Lectr. (*Mineral. & Petrology*)  
 Smith, C. L., MBE, MA PhD, *Asst. Dir. of Res. (Radiotherapeutics)*  
 Whitmore, T. C., MA  
 Cowley, M. D., BA  
 Thomas, T. C., MA LLB, *Sr. Bursar*  
 Pascoe, K. J., MA, U. Lectr. (*Engin.*)  
 Northcote, D. H., PhD *Lond.*, MA, U. Lectr. (*Biochem.*)  
 Prince, R. H., PhD *Lond.*, MA, U. Demr. (*Chem.*)  
 White, K. D., BA *Liv.*, MA

## SELWYN COLLEGE

Founded in 1882 in memory of George Augustus Selwyn, Bishop of New Zealand (1841-67) and Lichfield (1868-78), to provide a university education for young men in accordance with the principles of the Church of England. Junior members in residence (1959-60), 336. *Telephone*: Cambridge 50407.

Master—Rev. W. O. Chadwick, DD, *Dixie Prof. of Eccles. Hist.*

## Fellows

Williams, W. N., MA LLB  
 Perrett, G. B., MA  
 Durrant, P. J., MA PhD, *Vice-Master, Sr. Tutor*  
 Blyth, Rev. A. C., MC, MA  
 Sartain, W. J., MA, *Asst. Sec. General of the Facs.*  
 Chace, Rt. Rev. G. A., MC, MA Hon. DD  
 St. Joseph, J. K. S., MA PhD, *Librarian, Asst. Tutor, Curator in Aerial Photog.*  
 Spear, T. G. P., OBE, MA PhD, *Bursar & Steward*  
 Cott, H. B., DSc Glas., ScD, U. Lectr. (Zool.)  
 Brock, W. R., MA PhD, *Tutor for Advanced Students, U. Lectr. (American Hist.)*  
 Telfer, Rev. W., MC, DD  
 Auty, R., DrPhil Mün., MA, Sec., U. Lectr. (*Slavonic Studies*)  
 Winny, J., MA, Dean, U. Asst. Lectr. (Engl.)  
 Nicholson, H. H., MBE, MA

Melville, P. C., MA Oxon. & Camb., *First Asst. Registry*  
 Welbourn, D. B., MA, MIMechE, U. Lectr. (Engin.)  
 Hardy, Rev. D. P., MA, *Tutor for admissions, Prælector*  
 Harrison, D., MA PhD, *Asst. Tutor, U. Demr. (Chem. Engin.)*  
 Plumley, Rev. J. M., BA MLitt Durh., MA *H. Thompson Prof. (Egyptol.)*  
 Sweet, Rev. J. P. M., MA Oxon. & Camb., *Chaplain & Precentor, U. Asst. Lectr. (Div.)*  
 Ford, E. H. R., MD, U. Lectr. (Anat.)  
 Barron, D. W., MA  
 Johnson, R. P., MA, U. Lectr. (Engin.)  
 Porter, H. C., MA PhD  
 Griffiths, R. M., BA  
 Rossiter, C. L., AB Corn., AM PhD Prin., LLD *Kenyan, Pitt Prof.*

## SIDNEY SUSSEX COLLEGE

Founded in 1596 under the will of the Lady Frances Sidney, Countess Dowager of Sussex, by virtue of a charter granted by Queen Elizabeth in 1594 to Henry, Earl of Kent, and Sir John Harrington, her executors. Junior members in residence (1959-60), 268. *Telephone*: Cambridge 59427.

Master—D. Thomson, MA PhD, U. Lectr. (Hist.)

## Fellows

Knox-Shaw, T., CBE, MC, MA  
 Smith, Rev. B. T. D., DD  
 Davenport, A. H., MC, MA  
 Green, H. L. H. H., MD, U. Lectr. (Anat.)  
 Robinson, E. A. G., CMG, OBE, MA, FBA, *Prof. (Econ.)*  
 Angus, R. H., MA, *Bursar, U. Lectr. (Engin.)*  
 McCance, R. A., CBE, PhD MD, FRCP, FRS, *Vice-Master, Prof. (Exper. Med.)*  
 Bulman, O. M. B., PhD Lond., ScD, FRS, FGS, *Woodwardian Prof. (Geol.)*  
 Emeléus, H. J., CBE, DSc Lond., MA, FRS, *Prof. (Inorg. Chem.)*  
 Smail, R. C., MBE, MA PhD, *Coll. Librarian, U. Lectr. (Hist.)*  
 Thornely, J. W. A., MA, U. Lectr. (Law)

Agar, J. N., MA PhD, *Asst. Tutor for postgrad. students, U. Lectr. (Phys. Chem.)*  
 Roy, A. D., MA, *Tutor, U. Lectr. (Econ.)*  
 Clemmow, P. C., MA PhD, U. Lectr. (*Theoret. Electrodynamics & Radio*)  
 Willcock, M. M., MA, *Tutor*  
 Switzer, J. F. Q., MA, *Sr. Bursar, U. Lectr. (Estate Management)*  
 Smith, K. F., MA PhD, U. Lectr. (Phys.)  
 Beales, D. E. D., MA PhD, *Steward & Dean*  
 Corner, E. J. H., MA, FRS, *Reader (Plant Taxon.)*  
 Vickers, T., MA PhD, U. Demr. (Physiol.)  
 Charlton, T. M., BSc Lond., MA, U. Lectr. (Engin.)  
 Salway, P., MA PhD, FSA, *Prælector*

## TRINITY COLLEGE

Founded in 1546 by King Henry VIII by the consolidation and extension of Michaelhouse, founded in 1324, and King's Hall, founded in 1337. Junior members in residence (1959-60), 841. *Telephone*: Cambridge 58201.

Master—The Rt. Hon. Lord Adrian, OM, Hon. DSc Penn., Oxon., Harv., Lyons, Lond., Manc., Durh., Johns H., Belf., Wales, N. Y., Sheff., Hull, Brazil, Bologna, Freib., Paris & Leic., Hon. LLD McG., St. And., Glas., Liv. & Dal., Hon. MD Brussels, Louvain & Montr., MA MD, FRS, FRCP

## Fellows

Trevelyan, G. M., OM, CBE, Hon. DCL Oxon., Hon. LLD St. And., Edin., Sheff. & Liv.,

Hon. DLit Lond., Hon. LittD Harv., Yale, Manc., Durh., Nott., Turin & Camb., MA, FRS, FBA

- Littlewood, J. E., Hon. LLD *St. And.*, Hon. DSc *Liv.*, MA, FRS  
 Hollond, H. A., DSO, OBE, MA LL.M.  
 Robertson, D. S., Hon. DLitt *Durh.*, Hon. LLD *Glas.*, Hon. DPhil *Athens*, MA, FBA  
 Simpson, Rev. F. A., MA  
 Butler, Sir James R. M., MVO, OBE, MA  
 Burnaby, Rev. J., BD  
 Taylor, Sir Geoffrey I., MC, DSc *Oxon.*, MA Hon. ScD, FRS  
 Nicholas, T. C., OBE, MC, MA  
 Kitson Clark, G. S. R., LittD, *Reader (Const. Hist.)*  
 Broad, C. D., LittD, FBA  
 Roughton, F. J. W., MA PhD, FRS, *J. H. Plummer Prof. (Colloid Sci.)*  
 Dean, W. R., MA  
 Gow, A. S. F., MA, FBA  
 Duff, P. W., MA, *Vice-Master, Regius Prof. (Civil Law)*  
 Rattenbury, R. M., MA, *U. Registry*  
 Sandbach, F. H., MA, *U. Lectr. & Brereton Reader (Classics)*  
 Pantin, C. F. A., ScD, FRS, *Prof. (Zool.)*  
 Evannett, H. O., MA, *U. Lectr. (Hist.)*  
 Knight, A. H. J., MA, *Reader (German)*  
 Besicovitch, A. S., DSc *Lond.*, MA, FRS  
 Mann, F. G., DSc *Lond.*, ScD, FRS, FRIC, *Reader (Org. Chem.)*  
 Black, M., MA, *U. Lectr. (Geol.)*  
 Hanson, C. J., MA LL.M., *Prof. (Compar. Law)*  
 Wisdom, A. J. T. D., MA, *Prof. (Philos.)*  
 Hodgkin, A. L., MA ScD, FRS, *Royal Society Prof.*  
 Bragg, Sir W. Lawrence, MC, OBE, Hon. ScD *Dub.*, Hon. DSc *Leeds, Manc., Lisbon, Paris, Brussels, Liège & Durh.*, PhD *Cologne*, Hon. LLD *St. And.*, MA, FRS, FIP  
 Rushton, W. A. H., ScD, FRS, *Reader (Physiol.)*  
 Vyvyan, J. M. K., MA, *Tutor*  
 Sraffa, P., MA, *Asst. Dir. of Res. (Econ.)*  
 Pryor, M. G. M., MA PhD, *Sr. Tutor, U. Lectr. (Zool.)*  
 Russell, Earl, OM, MA, FRS, FBA  
 Robertson, Sir Dennis H., CMG, Hon. DComm *Amst.*, Hon. LittD *Harv., Durh. & Manc.*, Hon. DEcon *Louvain*, Hon. DScEcon *Lond.*, Hon. DHL *Col.*, MA, FBA  
 Binnie, A. M., MA, FRS, *Reader (Engin.)*  
 Harmer, L. C., LèsL *Bordeaux*, MA PhD, *Drapers Prof. (French)*  
 Ashmead, J., MA PhD, *U. Lectr. (Phys.)*  
 Oatley, C. W., MA, *Prof. (Electr. Engin.)*  
 Wade, H. W. R., LL.D., *Reader (Engl. Law)*  
 Winter, C., MA, *Dir., Fitzwilliam Museum*  
 Fox, E. N., ScD, *Reader (Engin.)*  
 Browne, B. C., MA, *Reader (Exper. Geophys.)*  
 Bradfield, J. R. G., MA PhD, *Sr. Bursar, Sec. of Council*  
 Frisch, O. R., OBE, DSc DPhil *Vienna*, MA, FRS, *Jacksonian Prof. (Nat. Philos.)*  
 Bailey, K., ScD, FRS, *Asst. Dir. of Res. (Biochem.)*  
 Dobb, M. H., MA, *Reader (Econ.)*  
 Gallagher, J., MA, *Dean, U. Lectr. (Colonial Studies)*  
 Radzinowicz, L., LLD, *Dir. of Dept. of Criminal Sci.*  
 Lewis, W. V., MA, *U. Lectr. (Geog.)*  
 Cassels, J. W. S., PhD, FRS, *U. Lectr. (Maths.)*  
 Green, D. H., MA, *Prælector, U. Lectr. (German)*  
 Ryle, M., MA, FRS, *Prof. (Radio Astron.)*  
 Nockolds, S. R., PhD, FRS, *Reader (Geochem.)*  
 Redpath, R. T. H., MA PhD, *Tutor, U. Lectr. (Engl.)*  
 Hawthorne, W. R., CBE, MA, FRS, FRAeS, MIMechE, *Prof. (Appl. Thermodyn.)*  
 Williams, Rev. H. A., MA, *Tutor, Dean of Chapel*  
 Oates, E. E. D. M., MA  
 Batchelor, G. K., PhD, FRS, *Reader (Fluid Dynamics)*  
 Leigh, R. A., BA *Lond.*, MA, *U. Lectr. (French)*  
 Jolowicz, J. A., MA, *U. Lectr. (Law)*  
 Ker, A., MA *Oxon. & Camb.*, *Tutor, U. Lectr. (Classics)*  
 Laslett, T. P. R., MA, *U. Lectr. (Hist.)*  
 Lauterpacht, E., MA LLB, *U. Lectr. (Law)*  
 Elliott, J. H., MA PhD, *U. Asst. Lectr. (Hist.)*  
 Swinnerton-Dyer, H. P. F., MA, *U. Lectr. (Mathl. Lab.)*  
 Lissmann, H. W., MA *Hamburg & Camb.*, FRS, *U. Lectr. (Zool.)*  
 Sheppard, N., MA PhD, *Asst. Dir. of Res. (Spectroscopy)*  
 Carr, E. H., CBE, MA, FBA  
 Allen, W. S., MA PhD, *Prof. (Compar. Philol.)*  
 Squires, G. I., MA PhD, *U. Lectr. (Phys.)*  
 Robson, R., MA PhD, *Tutor for Advanced Students*  
 Rudwick, M. J. S., MA PhD  
 Birch, B. J., MA PhD  
 Goldstone, J., MA PhD  
 Lever, J. D., MD, *U. Lectr. (Anat.)*  
 Glauert, R. H., MA PhD, *Jr. Bursar*  
 Davidson, J. F., MA PhD, *Steward, U. Lectr. (Chem. Engin.)*  
 Dodwell, C. R., MA PhD, *Librarian*  
 Proudman, I., PhD, *U. Lectr. (Appl. Maths.)*  
 Leppard, R. J., MA, *Dir. of Music, U. Lectr. (Music)*  
 Lockwood, A. P. M., MA PhD  
 Wilks, M. J., MA PhD  
 Sen, A. K., MA PhD, *U. Asst. Lectr. (Econ.)*  
 Shercliff, J. A., MA PhD, *U. Lectr. (Engin.)*  
 Easterling, H. J., MA  
 Davenport, H., MA *Manc.*, ScD, FRS, *Rouse Ball Prof. (Maths.)*  
 Sander, K. F., BSc *Lond.*, MA PhD, *U. Lectr. (Engin.)*  
 Polkinghorne, J. C., MA PhD, *U. Lectr. (Appl. Maths.)*  
 Chinner, G. A., PhD  
 McLachlan, A. D., BA  
 Howells, I. D., PhD  
 Ullmann, W., JuD *Vienna & Innsbruck*, LittD, *Reader (Mediæv. Ecclesiastical Instns.)*  
 Lewy, C., MA PhD, *Sidgwick Lectr. (Moral Sci.)*  
 Champernowne, D. G., MA *Oxon. & Camb.*, *Reader (Econ.)*

Marrian, D. H., PhD, *Asst. Dir. of Res. (Radio-therapeutics)*  
Funnell, B. M., MA

Wall, C. T. C., BA  
Runciman, Hon. W. G.

## TRINITY HALL

Founded in 1350 by William Bateman, Bishop of Norwich, and especially designed by him for the study of law. This has been recognized by the establishment of law lectureships, law studentships, open scholarships for intending students of law, and foundation scholarships; but members of the college are not restricted to any particular subject of study, and a normal balance of numbers is maintained among all the usual subjects. Junior members in residence (1959-60), 365. Telephone: Cambridge 59447.

Master—Sir Ivor Jennings, KBE, QC, LLD *Lond.*, Hon. LLD *Brist.*, *S'ton.*, *Ceyl.*, *Leeds & Belf.*, LittD, FBA

## Fellows

Dean, H. R., Hon. LLD *Aberd.*, Hon. DSc *Liv.*, DM *Oxon.*, MD, FRCP, *Prof. (Pathol.)*  
Crawley, C. W., MA, *Vice-Master, U. Lectr. (Hist.)*  
Turner, J. W. C., MC, MA LLB  
Clarke, L. C. G., Hon. LLD, MA  
Ellys Lewis, T., BA LLB *Wales*, PhD, *U. Lectr. (Law)*  
Young, F. G., PhD DSc *Lond.*, MA, FRS, FRIC, *Sir W. Dunn Prof. (Biochem.)*  
Storev, G., MA, *Tutor*  
Kirk, G. S., DSC, MA, *U. Lectr. (Classics)*  
Dean, N., MA, *Dir. in Estate Management*  
Crutchley, B., CBE, MA, *Univ. Printer*

Cochran, W., PhD *Edin.*, MA, *U. Lectr. (Phys.)*  
Curtis, Brigadier F. C., CBE, MA, *Treasurer*  
Best, G. F. A., MA PhD, *Librarian, Prælector, U. Asst. Lectr. (Hist.)*  
Frankl, E. K., MA, *Asst. Tutor, U. Lectr. (Engin.)*  
Randle, P. J., MA PhD MB BChir, *U. Lectr. (Biochem.)*  
Brand, C. P., MA PhD, *U. Lectr. (Italian)*  
Purnell, J. H., PhD *Wales & Camb.*, MA, *U. Lectr. (Phys. Chem.)*  
Adams, J. F., MA PhD, *U. Asst. Lectr. (Maths.)*  
Abbott, S. E., OBE, MA, *Bursar & Steward*  
Bradley, A. W., BA LLB, *U. Asst. Lectr. (Law)*  
Jameson G. A., BD

## Women's Colleges

## GIRTON COLLEGE

Founded in 1869, and obtained a royal charter in 1924. Junior members in residence, (1959-60), 331. Telephone: Cambridge 76219.

Mistress—Mary L. Cartwright, DPhil *Oxon.*, Hon. LLD *Edin.*, Hon. DSc *Leeds & Hull*, ScD, FRS, *Reader (Theory of Functions)*

## Fellows

Cave-Browne-Cave, Frances E., MA  
Clover, Mary, MA  
Holland, Mrs. Marjorie, PhD *Col.*, MA, *Bursar, U. Lectr. (Econ.)*  
Cam, Helen M., Hon. LLD *Smith*, Hon. MA *Harv.*, MA *Lond.*, LittD, FBA, FRHistS  
Bibas, Henriette, MA  
McMorran, Helen I., MA, FLA, *Vice-Mistress Librarian & Registrar of the Roll*  
Lloyd Thomas, M. Gwyneth, MA  
Bishop, Ann, DSc *Manc.*, ScD, FRS, *Res. Fellow*  
Peace, Kathleen M., MA, *Sec.*  
Bradbrook, Muriel C., LittD, *U. Lectr. (Engl.)*  
Jeffreys, Lady, MA PhD  
Megaw, Helen D., MA PhD, *U. Lectr. (Phys.)*  
Fairlie, Alison A. B., MA DPhil *Oxon.*, PhD, *U. Lectr. (French)*  
Duke, Alison, MA, *Tutor & Prælector, U. Lectr. (Classics)*  
Hill, Elizabeth M., PhD *Lond.*, MA, *Prof. (Slavonic Studies)*

de Mourgues, Mme. Odette M. H. L., PhD, *U. Lectr. (French)*  
Willey, Florence J. L., MA, *Jr. Bursar & Clerk of Accounts*  
Gillies, Sheila M., BA *Lond.*, MA, *Tutor & Steward*  
Bennett, Mrs. Joan, MA, *U. Lectr. (Engl.)*  
Chibnall, Mrs. Marjorie M., MA DPhil *Oxon.*, PhD  
Harker, Janet E., MSc *Syd.*, PhD *Munc.*, MA, *U. Demr. (Zool.)*  
Heard, Mrs. Dorothy H., MB BS *Lond.*, PhD, MRCP, *Sr. Asst. in Res. (Radiotherapeutics)*  
Grant, Mrs. Helen F., MA *Oxon. & Camb.*, *U. Lectr. (Spanish)*  
Madge, Mrs. Kathleen J., MA, *Res. Fellow*  
Fell, Honor B., DSc *Edin.*, MA, FRS  
Padley, Mrs. Elzbieta M., MA PhD, *Res. Fellow*  
Kelsey, Christine H., MA PhD, *Res. Fellow, U. Demr. (Mineral. & Petrol.)*  
MacRobbie, Enid A. C., PhD *Edin.*, MA, *Res. Fellow*



- Robinson, Mrs. Judith O., *DUParis*, MA, *Res. Fellow*  
 Rich, Audrey N. M., MA, *Tutor*  
 Radzinowicz, Mrs. Mary A., PhD *Col.*, MA, *Res. Fellow*  
 Vogt, Martha L., DrMed DrPhil *Berl.*, PhD, FRS
- Grove, Mrs. Jean M., MA PhD  
 Righter, Mrs. Bobbyann, BA *Bryn Mawr*, PhD, *Res. Fellow*  
 Laboulle, Louise J., BA *Sheff.*, *Res. Fellow*  
 Roper, Margaret, BA *Oxon.*, *Res. Fellow*

## NEWNHAM COLLEGE

Founded in 1871 and obtained a royal charter in 1917. Junior members in residence, (1959-60), 341. *Telephone*: Cambridge 52478.

Principal—Ruth L. Cohen, MA, *U. Lectr. (Econ.)*

- Fellows**  
 Chrystal, Edith M., MA, *Registrar of the Roll*  
 White, Mrs. Alice B., PhD *Yale*, MA  
 Toynbee, Jocelyn M. C., DPhil *Oxon.*, MA, FSA, FBA, *Prof. (Class. Archaeol.)*  
 Welsford, Enid E. H., MA  
 Horton, Mrs. Ann C., DSc *Lond.*, MA  
 Grimshaw, Margaret E., MA, *Bursar*, *U. Lectr. (Maths.)*  
 Mitchell, Jean B., MA, *U. Lectr. (Geog.)*  
 Behrens, Catherine B. A., MA *Oxon. & Camb.*, *U. Lectr. (Hist.)*  
 Agar, Mrs. Delia M., MA PhD  
 Wallas, May G., PhD *Lond.*, MA *Lond. & Camb.*, *U. Lectr. (French)*  
 Edmonds, Sheila M., MA PhD, *Vice-Principal*  
 Morris, Irene V., MA *Belf. & Camb.*, *Tutor*  
 Burne, Patience, MA *Lond. & Camb.*, *Tutor, Librarian*  
 Reynolds, Joyce M., MA *Oxon. & Camb.*, *U. Lectr. (Classics)*  
 Whetham, Edith H., MA, *Gilbey Lectr. (Hist. & Econ. of Agric.)*
- Hughes, Kathleen W., PhD *Lond.*, MA *Lond. & Camb.*, *U. Lectr. (Anglo-Saxon)*  
 Whitelock, Dorothy, MA *Oxon.*, LittD, FBA, FSA, FRHistS, *Elrington & Bosworth Prof. (Anglo-Saxon)*  
 Cook, Pauline L., MA PhD, *Tutor, Res. Officer (Appl. Econ.)*  
 Richards, Audrey I., CBE, PhD *Lond.*, MA *Lond. & Camb.*  
 Russell-Smith, Dame Enid, DBE, MA  
 Bailey, Anita I., MSc *Rand*, MA PhD  
 Cane, Violet R., MA  
 McCabe, Rosemary H., MA *Oxon. & Camb.*, *Tutor, Jr. Bursar*  
 Mellanby, Molly, MA  
 Newton, Mrs. Alison A., MA PhD  
 Easterling, Mrs. Patricia E., MA, *Prælector*  
 Adler, Mrs. Dorothy R., MA *Radcliffe*, PhD, *Res. Fellow*  
 Norton, Jane E., MA  
 Everett, Barbara M., MA *Oxon.*  
 Gooder, Mrs. Jean M., MA

## HUGHES HALL

Founded in 1885 for the training of women intending to follow the profession of teaching, it became a 'recognized institution of the univ.' in 1949. It accepts only graduates following the course in the univ. Dept. of Educn. Students in residence (1959-60), 70. *Telephone*: Cambridge 52866.

Principal—Margaret A. Wileman, MA *Oxon. & Camb.*, *U. Lectr. (Educn.)*, *Dir. of Women Students in Dept. of Educn.*; Tutor—Mrs. Audrey A. J. Livingston, MA

## NEW HALL

Established in 1954 by the Association to Promote a Third Foundation for Women in the Univ. of Cambridge. It is a 'recognized institution of the univ.'. Junior members in residence (1959-60), 63. *Telephone*: Cambridge 50307.

Tutor—A. Rosemary Murray, MA DPhil *Oxon.*, MA; Lectr.—Hope Hammond, MA PhD

## GENERAL INFORMATION

The univ. received formal recognition as a *studium generale* from Pope John XXII in 1318, but it was well established by that time and had already been given important privileges by King

Henry III. Its origins probably date from 1209 when, following disturbances at Oxford, a number of scholars migrated to Cambridge. The first coll., Peterhouse, was founded by Hugh

de Balsham, Bishop of Ely, in 1284, and was followed by most of the others in the next three centuries.

In the period from the foundation of King's Coll. (1441) to the foundation of Trinity Coll. (1546) the univ. expanded considerably, and achieved a European reputation. The high-water mark was perhaps reached during the chancellorship of John Fisher (1504-35), who introduced Erasmus to Cambridge. The Reformation, and in particular the dissolution of the monasteries, had a disturbing influence, and ushered in a series of constitutional changes, the chief result of which was to give the colls. a more important place in the constitution of the univ. The constitution of the univ. was stabilized when it received a new code of statutes from Queen Elizabeth in 1570, and was incorporated by act of parliament in 1571. Under the new statutes, which remained in force for nearly 300 years, all students had to be members of colls., and the govt. of the univ. was largely in the hands of the heads of colls.

There were few major developments in the 17th or 18th centuries. No new colls. were founded between 1596 (Sidney Sussex) and 1800 (Downing). The decline in the number of students which was brought about by the civil war was temporarily checked by the Restoration, but in the next hundred years the average number of students matriculating each yr. fell by two-thirds. But a number of professorships were founded, and under the influence of Sir Isaac Newton, who was Lucasian prof. of maths. for 33 yrs., maths. became the main subject of study; from 1750 onwards it was compulsory.

By the end of the 18th century written exams. had taken the place of the earlier 'disputations'. Most of the teaching was done in colls. There were a few endowed univ. professorships and univ. lectureships, but the trust deeds governing them were often out of date, and the stipends attached to the posts very low. The Elizabethan statutes were so far unrelated to the conditions of the time that many were ignored.

Changes were urgently required, and the univ. did not escape the reforming agitation of the 19th century. Its affairs were investigated by royal commissions in 1850 and 1872, and the univ. statutes were subsequently revised by statutory commissions. The classical tripos was introduced in 1824, and, after the maths. tripos had ceased to be compulsory in 1850, the range of subjects of study was steadily widened. In 1856 nonconformists were allowed to graduate; in 1858 the local exams. (for schools) were instituted; in 1869 the first women's coll., Girton, was founded; in 1871 all religious tests were abolished by the Universities Tests Act, and in the same yr. the Cavendish physics lab. was established; in 1872 the hd. of extra-mural studies was instituted to organize univ. extension lectures. During the century the average annual total of admissions increased by nearly 6 times.

In the early yrs. of the present century the univ.

was in serious financial difficulties, which were aggravated by the war of 1914-18. The univ. received a Treasury grant in 1919 on the condition that there should be an enquiry into its resources and organization. A royal commission appointed in 1920 recommended that the univ. (but not the colls.) should receive an annual Treasury grant, and should be reorganized so as to take over some of the teaching previously done by colls. In consequence the statutes were again revised, the facs. reorganized, and many more univ. lectrs. appointed; thenceforward lectures, etc., were organized solely by the univ. instead of partly by the colls. The univ. has continued to expand, especially since the end of the 1939-45 war.

**CONSTITUTION.** The univ. is a self-governing body; the legislative authority is the *regent house*, which consists of those members of the teaching and admin. staff of the univ. and colls. who have the MA or a higher degree. The *senate*, which consists of all the holders of the MA or higher degrees, has the right of voting on certain formal matters. The chief admin. body of the univ. is the *council of the senate*, which is elected by the regent house. The *general board of the faculties* co-ordinates the educational policy of the univ. and the *financial board* supervises its financial affairs.

The nominal and ceremonial hd. of the univ. is the chancellor, who is elected for life. The vice-chancellor is a head of a coll. who normally holds office for 2 yrs. He presides over *congregations* (meetings of the regent house or the senate) and is chairman of the council of the senate and the more important of the many *boards* and *syndicates* which manage the affairs of the univ.

Changes in the *ordinances*, or regulations of the univ., are proposed by the board or syndicate concerned in the form of reports which, after being approved for publication by the council of the senate, are published in the *Cambridge University Reporter*. Such reports can be criticized by members of the senate at *discussions* which are held once a fortnight in full term. A report may be amended after remarks made in the discussion. Subsequently a *grace*, which is a motion for the approval of its recommendations, is submitted to a vote of the regent house. Minor amendments of ordinances are proposed in *graces* which the council of the senate submit for the approval of the regent house without the formality of report and discussion. Ordinances may not infringe the *statutes*. Procedure for amendments of statutes is the same, but such amendments require the approval of the Queen in Council, after the approval of the regent house has been obtained.

The COLLEGES are independent self-governing corporate bodies quite distinct from the univ., with their own property and income. Their affairs are regulated by their own statutes, though these cannot be altered without the approval of the univ. and the Queen in Council, and they are also bound by some of the univ. statutes. The

governing body of a coll. consists of a *master* (or *provost* or *president*) and a group of *fellows*. Most of the fellows are also members of the staff of the univ.; most of the staff of the univ. are either fellows or members of colls.

There are 19 colls. for men and 4 colls. (or similar institutions) for women. In addition there is a collegiate institution for men, Fitzwilliam House, which is under the direct control of the univ. With the exception of Hughes Hall, which is reserved for women reading for the cert. of educn., all colls. accept both undergraduate and postgraduate students in any subject. The colls. provide lodgings, corporate life and personal tuition. All students are required to be members of a coll. (or one of certain recognized institutions); all the univ. lectures, labs., libraries, exams. and degrees are open to members of any coll., whether men or women.

The principal coll. officers are the *tutors*, who are responsible for the welfare and discipline of the students assigned to them and advise them about their studies and any other problems that may arise. Each student is also allotted a *supervisor*, who gives him personal tuition, and corrects his written work.

The coll. bldgs. are usually grouped round one or more courts. Each coll. has a hall (in which meals are served), a chapel, a library, and jr. and sr. common-rooms. The rest of the bldgs. are divided into rooms for students and fellows. Because of the increase in the numbers of students in recent years, only about half are able to live in rooms in their coll. The rest live in lodgings (which must, for undergraduates, be recognized by the lodging-houses syndicate), but they continue to have access to all the other facilities of their coll. Usually undergraduates are able to live in coll. for one or two of the three yrs. required for a degree.

DISCIPLINE outside the colls. is maintained by the *proctors*, who are responsible for enforcing the *edicts* of the univ. Proctorial permission is required for such purposes as running a motor vehicle, holding a party for more than 15 persons, or organizing a club or society. Students are required to have gowns, which must be worn at most lectures, in the univ. library, in the streets after dusk, for dining in hall and for official visits to members of the staff.

There is no UNIV. PRECINCT in the accepted sense. The colls. and univ. bldgs. are spread out on the west side of the town. Bldgs. under construction include extensions to the new chem. and engin. labs. and improved accomm. for arts facs.

FACULTIES. Teaching and res. are organized in 20 *faculties*, each under the supervision of a *faculty board*. The facs. are: classics, div., Engl., fine arts, mod. & mediæv. langs., music, oriental studies, econ. & pol., hist., law, moral sci., engin., geog. & geol., maths., phys. & chem., agric., archæol. & anthropol., biol. 'A' (comprising bot. & zool.), biol. 'B' (comprising anat., biochem.,

pathol., etc.), and med. Several of the facs. are further divided into depts., and there are also the following depts. independent of any fac.: educn., estate management, chem. engin. and the observatories.

The INCOME of the univ. is derived mainly from the Treasury grant, partly from the fees of students, grants for res., endowments and contributions from the colls. which are graduated according to coll. revenues. In 1958-59 the income was £4,297,742, of which £2,433,950 was from the Treasury recurrent grant, £459,651 from fees, £409,640 from grants for res., £281,732 from endowments, £121,160 from colls. and £591,609 from other sources.

THE UNIVERSITY LIBRARY (tel.: Cambridge 56261) contains about 2,000,000 vols., including many early printed books, and over 10,000 MSS. and 350,000 maps. It is entitled under the Copyright Act to a copy of every book published in Gt Britain & Ireland, and a large number of foreign books and periodicals are acquired by purchase. It contains, amongst others, the following notable collections: Acton libr. (mediæv., eccles. and mod. hist., 60,000 vols.); W. G. Aston's Japanese libr.; Sir T. Wade's Chinese books; J. W. Clark collection (Cambridge books, pamphlets, papers, etc.). Annual budget: about £100,000.

In addition there are over 50 fac., deptl. and sp. libraries, containing in all about 500,000 books. Among the most important are the Balfour libr. (zool.), the Marshall libr. (econ.), the Seeley memorial libr. (hist.) and the Squire law libr. The Philosophical libr. is the libr. of the Philosophical Soc., but other members of the univ. may consult its books on maths. and the scis.

The colls. have their own libraries for the use of members of the coll. only. In addition to modern text-books for the use of students, most also contain important collections of old books or MSS.; these include: the Robertson Smith collection of oriental books in Christ's Coll.; the Matthew Parker MSS. in Corpus Christi Coll.; 800 MSS., 60 incunabula, heraldic collections of Dr. John Knight (17th cent.) and 1300 books and pamphlets of Dr. Wm. Branthwaite (d. 1619) in Gonville & Caius Coll.; the Rowe music libr. and the Keynes libr. (which contains Newton MSS.) in King's Coll.; the Pepys libr. in Magdalene Coll.; the Perne libr. in Peterhouse; and the Capel collection of Shakespeariana in Trinity Coll.

MUSEUMS. *The Fitzwilliam Museum* (Dir.—C. Winter, [Trin.], MA), Trumpington St., Cambridge (tel.: Cambridge 50023), contains extensive art and archæological collections. The chief collections comprise Egyptian, Greek and Roman antiquities, coins and medals, paintings, prints, mediæv. and mod. MSS., ceramics, textiles, mediæv. and Renaissance objects of art. The collection of paintings includes examples of the Italian, Flemish, Dutch, French, British and Spanish schools, among which are a number of masterpieces. The library contains about 25,000

vols. incl. 12,000 relating to the arts, a collection of early printed books and the music collection. The museum is open free to the public.

The *Museum of Classical Archaeology* (Curator—Prof. Jocelyn M. C. Toynbee, [Newn.], MA), Little St. Mary's Lane, Cambridge (tel.: Cambridge 52410), contains a collection of casts illustrating the hist. of Greek sculpture.

The *Museum of Archaeology and Ethnology* (Curator—G. H. S. Bushnell, [Down.], MA PhD, Asst. Curator—Mary D. Cra'ster, [Girton], MA Oxon. & Camb.), Downing St., Cambridge (tel.: Cambridge 50937), has a large and increasing collection, incl. Saxon urns and ornaments, casts of central American monuments, Egyptian stone implements, unique Fijian collections and numerous others resulting from scientific expeditions by Cambridge men.

The *Museum of Zoology* (Dir.—F. R. Parrington, [Sid.], ScD), Downing St., Cambridge (tel.: Cambridge 58717).

*Sedgwick Museum of Geology* (Curator—A. G. Brighton, [Chr.], MA), Downing St., Cambridge (tel.: Cambridge 50129).

*Whipple Museum of the History of Science* (Actg. Curator—G. Buchdahl, [King's], MA Melb. & Camb.), Downing St., Cambridge.

LABORATORIES. The principal labs. are: agric., anat., biochem., biol. and parasitol. (Molteno Inst.), bot., chem., chem. engin., colloid sci., engin., ethmol., exper. phys. (Cavendish), genetics, human anat., maths. (for res. on computing machinery), med., metall., mineral. & petrol., pathol., phys. chem., physiol., psychol., statistical, vet. sci., zool.

BOTANIC GARDEN (Dir.—J. S. L. Gilmour, [Cla.], MA, FLS), Bateman St., Cambridge (tel.: Cambridge 50101).

OBSERVATORIES (for staff, see *Astrophys.*, p. 857), Madingley Rd., Cambridge (tel.: Cambridge 52413), are about a mile from Cambridge and have a 36-in. reflector, a 17-in. Schmidt telescope and a 12-in. horizontal solar telescope with spectrographic equipment. There are a number of smaller instruments, a well-equipped workshop, a small optical shop and a good library.

SCOTT POLAR RESEARCH INSTITUTE (Dir.—G. de Q. Robin, [Cai.], MSc Melb., PhD Birm., MA), Lensfield Rd., Cambridge (tel.: Cambridge 56457), is the most important repository in the Commonwealth of information about arctic and antarctic regions.

MADINGLEY HALL (Warden—F. R. Salter, [Magd.], OBE, MA), Madingley, Cambridge (tel.: Madingley 307). A large country house, dating in part from 1540, about 4 mls. west of Cambridge. In term time accommodates about 50 grad. students (who must be members of one of the colls.) in study-bedrooms. In vacations the hall is made available to the bd. of extra-mural studies (see below) for residential courses.

DEPARTMENT OF EDUCATION (for staff, see *Educn.*, p. 860), 17 Brookside, Cambridge (tel.: Cambridge 55271). Prepares students for the cert. in educn. awarded by the Cambridge Inst. of Educn. (see below). The 1-yr. course includes 1 term's teaching practice and is open to grads. of any univ. Candidates must obtain admission to a coll. (in the case of women, to Hughes Hall) before applying for admission to the dept.

The univ. dept. of educn. is a corporate member of the Cambridge Institute of Education, 2 Brookside, Cambridge (tel.: Cambridge 56207/9). Dir.: W. O. Bell, [Cath.], MA; Sec.: F. F. C. Edmonds, [Qu.], MA.

ADMISSION. See Appendix II. Students must be admitted to a coll.; admission to a coll. automatically secures admission to the univ. Most colls. have entrance exams., but they may admit persons who have exceptional qualifs. without requiring them to take an exam. Enquiries should be addressed to the sr. tutor of the coll. concerned (to the sec. of Girton or Newnham Coll.). Candidates for admission to courses of res. must also obtain the status of res. student (see below).

The *Adviser to Overseas Candidates for Admission* (N. S. Wilson, [Pemb.], MA), at 1A Rose Cresc., Cambridge (tel.: Cambridge 58933), is able to give information and advice to applicants for admission resident outside the U.K., and to govt. depts. acting on behalf of such students.

NON-MEMBERS OF THE UNIVERSITY. Certain classes of persons who are not members of the univ. may be admitted to lectures or allowed to work in univ. labs. for limited periods. Enquiries should be addressed to the registry.

FIRST DEGREES. The BA is the first degree in all subjs. The qualifs. for the BA honrs. are: (i) 9 terms' residence; (ii) reaching the honrs. standard in any 2 of the exams. known as 'tripos' exams. (in certain cases, noted below, one such exam. is a sufficient qualif.). In most subjs. there are 2 tripos exams., the first of which (pt. I) is taken after a 2-yr. course of study, and the 2nd (pt. II) after 1 yr. of more specialized study in certain aspects of the subj. It is possible to take the 2 tripos exams. in certain different subjs.

There are the following tripos exams.: Anglo-Saxon (which consists of one pt. only); archaeological & anthropological, pts. I & II; archit. & fine arts, pts. I & II; chem. engin. (which consists of one pt. only and can only be taken after obtaining honrs. in certain other exams.); classical, pts. I & II; econ., pts. I & II; Engl., pts. I & II; geographical, pts. I & II; historical, pts. I & II; law, pts. I & II; mathematical, pts. I, II & III (pt. II qualifies for the BA without further exam., pt. III is normally taken only by the most advanced students who have omitted pt. I); mech. scis. (engin.), pts. I & II (pt. I qualifies for the BA without further exam.); mod. & mediæv. langs., pts. I & II; moral scis., pts. I & II; music, pts. I & II; nat. scis., pts. I & II (pt. I qualifies for the BA without further exam. In

pt. I a student must read 3 or 4 scientific subjs., in pt. II he specializes in one scientific subj.); oriental studies, pts. I & II; and theological, pts. I, IA, II & III (pt. IA is intended for those who have previously obtained hons. in another subj.).

There are also exams. in agric., engin. studies, estate management and Christian theol., leading to the ord. BA degree. Outside these subjs. only students intending to follow an hons. course are normally admitted. If a student fails to reach the standard required for hons. in his first tripos, he will not be admitted to a 2nd tripos, but may be given an allowance towards the ord. BA degree and, after passing one or two of the special exams. which are held in most of the subjs. covered by the triposes, be admitted to that degree.

Most exams. are held at the end of the Easter term.

**TRANSFER YEAR.** I.C.I. transfer bursaries may be awarded by colls. to students admitted to read an arts subj. who wish to transfer to reading nat. or mech. scis. The bursaries are tenable for 1 yr. preliminary to a normal 3-yr. degree course. Enquiries should be addressed to tutors of colls.

**AFFILIATED STUDENTS.** Grads. of many other univs., having degrees approved for the purpose by the council of the senate, may be allowed to proceed to the BA degree after 6 terms' residence and obtaining hons. in one tripos exam. only, usually a pt. II. (For details, see *The Student's Handbook*.)

**HIGHER DEGREES.** Without taking any further exam. a BA may be admitted to the degree of MA after 6 yrs. have elapsed from the end of his 1st term, provided that at least 2 yrs. have elapsed from his admission as BA. The MA does not represent any addtnl. academic qualif., but confers seniority, including membership of the senate and certain privileges in the use of the univ. library and other univ. institutions. An MA is conferred on the principal members of the staff who have degrees of other univs. (in some cases after an interval of 3 yrs.). Other members of the grad. staff have the status of MA, which confers most of the privileges of the MA except membership of the senate and regent house.

Graduates of Oxford or Trinity Coll., Dublin, who become members of the staff, may by 'incorporating' be admitted to a degree which corresponds to that which they already hold and confers the same seniority.

The main res. degrees are the PhD, MLitt and MSc. See Research Students, *below*.

**Law.** A person may be a candidate for the LLB exam. if he has obtained hons. in either pt. of the law tripos, or if he is a BA and qualified to practise as a barrister or solicitor in England or Ireland or as an advocate or law agent in Scotland, or if he has passed a law exam. in another univ. approved by the fac. bd.

**Medicine.** The course leading to the degrees of MB BChir normally lasts 6 yrs. At least 9 terms must be spent at the univ., during

which the candidate must complete the 1st MB exam., the qualifying exam. in anat. and physiol., the exam. in pharmacol., and obtain hons. in a tripos (usually pt. I of the nat. scis. tripos). At this stage he is usually qualified to proceed to the BA. He must then spend at least 2 yrs. 9 mos. in clinical study at a hosp. (usually in London) and pass the final MB exam. before proceeding to the degrees of MB BChir, which are qualifs. for provisional registration under the Medical Act, 1950. Not less than 2 yrs. after passing the final exam. for the MB BChir, a person may be a candidate for the degree of MChir.

**Music.** The qualifs. for the MusB are: (i) 9 terms' residence; (ii) passing 2 sections of the MusB exam. Candidates must first have obtained hons. in one pt. of the music tripos.

**Veterinary Medicine.** The course leading to the degree of VetMB normally lasts 6 yrs. The candidate must first complete the 1st MB exam., the qualifying exam. in vet. anat. and vet. physiol., the exam. in pharmacol., and obtain hons. in a tripos (usually pt. I of the nat. scis. tripos). He must then spend 3 yrs. completing specified courses at the school of vet. med. and obtaining practical experience before being admitted to the final vet. exam.

The *other higher degrees*, which are open only to members of the univ., are: MusM—3 yrs. from MusB; LLM—2 yrs. from BA or LLB (but at least 6 yrs. from first term of residence); BD—5 yrs. from BA; DD, LLD, MD, ScD, LittD, MusD—8 yrs. from BA or other first degree.

**HONORARY DEGREES** may be conferred on persons who have done good service to the univ. or are of great distinction. They are normally one of the following: DD, LLD, ScD, LittD, MusD or MA.

The univ. does not award **EXTERNAL DEGREES**.

**DIPLOMAS.** The following dipls. are open to grads. of any univ. whose qualifs. are approved (usually a degree in the same subj. is required): agric. sci., 1–2 yrs.; agric., 2 yrs.; anthropol., 1 yr.; classical archæol., 1 yr.; mathl. stats., 1–2 yrs.; numerical analysis and automatic computing, 1 yr.; oriental studies, 2 yrs.; prehistoric archæol., 1 yr.; Roman law, 1 yr.; and slavonic studies, 1 yr. Candidates are required to become members of the univ. and reside for 3 terms.

The dipls. in archit. and estate management are open only to persons with the Cambridge BA degree in those subjs. The dipl. in educn. is open only to persons who have previously obtained the cert. in educn. at Cambridge.

The dipls. in compar. legal studies, econ. and internat. law are open only to registered res. students. See Research Students, *below*.

Officers of any of the public services of the Commonwealth, not normally resident in the U.K. having exceptional qualifs., may be candidates for

the dipls. in anthropol. or prehistoric archæol. after 1 term's residence.

**CERTIFICATES.** The following certs. are open to grads. of any univ. whose qualifs. are approved: advanced study in engin. (either in theory of structures and strength of materials, or in control engin.), postgrad. study in nat. sci. (in biochem., chem., metall. or phys.), and hist. and philos. of sci. Candidates are required to become members of the univ. and reside for 3 terms. For the cert. in educn. see Dept. of Educn., *above*. Certs. of proficiency are awarded with degrees in agric., Christian theol., engin. studies and estate management.

Certs. of competent knowledge in mod. langs. are open to any member of the univ. who has resided for 2 terms.

**RESEARCH STUDENTS.** Grads. of any univ., and in exceptional cases non-grads., who can give evidence of ability to profit from a course of supervised res. may be admitted as candidates for the degrees of PhD, MLitt or MSc. They must first obtain admission to the status of res. student, and become members of a coll. or Fitzwilliam House. Enquiries about admission to the status of res. student should be made to the sec. of the Bd. of Res. Studies (L. M. Harvey, [Cath.], MA), The Old Schools, Cambridge (tel.: Cambridge 58933). Res. students are admitted to work in any fac.

Candidates for the degree of PhD are required to pursue a course of res. for 3 yrs.; for the degrees of MSc and MLitt for 2 yrs.; and for the dipls. in compar. legal studies, econ. and internat. law or the certs. of postgrad. study in nat. scis. for 1 yr.; they are placed under the direction of a supervisor, and are required to reside in the univ. during full term, save that in certain cases a candidate for the PhD may be allowed to spend 1 yr. working under supervision elsewhere, or may be granted exemption from 1 yr. on the ground of res. done before admission to Cambridge. After completing the course, candidates are required to submit a dissertation, or thesis, embodying the results of their res., and also (except for the dipls.) undergo an oral or written exam.

Res. students may be admitted, normally for a period of not more than 1 yr., as candidates for degrees of other univs.

**TERMS.** The academic yr. is divided into 3 terms. Michaelmas term: Oct. 1–Dec. 19; Lent term: Jan. 5–March 25; Easter term: April 10–June 18. In order to count a term towards the qualifs. required for a degree, a student is required to reside in the univ. precincts for three-quarters of the term. Most students therefore reside during *full term*, which also lasts for three-quarters of each term, since regular teaching and lecturing are only given in full term. Dates of full term for academic yr. 1961–62: Oct. 9–Dec. 7; Jan. 16–March 16; April 24–June 15. During a period from the Thursday following July 6 to the Saturday following Aug. 12 there are addtnl. lecture courses in agric., engin., law

and most scientific and med. subjs., which students may attend. Students in other subjs. may come into residence in this period to use libraries, etc., but will not receive formal teaching.

Most libraries and labs. are open throughout the yr. except for short periods at Christmas, Easter and in Sept.

**SCHOLARSHIPS AND STUDENTSHIPS.** There are a limited no. of univ. awards, but most are for postgrad. study and are open only to members of the univ. A larger no. of awards are offered by the colls. These include many open entrance scholps. and exhibitions, which are competed for by exams. held in Dec. (Feb. for Fitzwilliam House and March for St. Catharine's and Selwyn Colls.). Full details are given in a sp. number of the *Camb. Univ. Reporter* publ. annually in May and obtainable from the univ. press (for addresses, see p. 889) price 6d.

Trinity Coll. offers exhibitions to enable students of Commonwealth univs. outside the U.K. to read for a BA, LL.B or dipl. at Cambridge; particulars from the sr. tutor, Trinity Coll. Applicants must be made through the principal authority of the student's univ., and must reach the sr. tutor by May 1. For postgrad. awards open to grads. of other univs., see p. 825.

**EXPENSES.** Students are required to pay both univ. and coll. fees. The only recurrent univ. fee is the univ. composition fee (£11 a term in arts facs. and £19 a term in sci. facs.). Since coll. fees vary from coll. to coll., it is not possible to give precise information. Total annual term-time expenditure is likely to be about £400; this would include some allowance for personal expenses. Attendance at long vacation courses would be addtnl., and since the univ. terms only cover about half the yr., a student who has to maintain himself during vacation will usually need about £600 a yr. The following initial fees must be paid before coming into residence: coll. admission fee (£2 to £5); univ. matric. fee (£5); and, at most colls., 'caution money'. The latter is a sum of about £30 (increased by some colls. in the case of students not normally resident in the U.K.) which is returned when the student completes his course. The univ. BA degree fee is £3.

The BOARD OF EXTRA-MURAL STUDIES undertakes the liberal educn. of adults, mainly in the eastern counties, and in a few centres farther afield. The Workers' Educnl. Asscn., together with other voluntary assocns. and the local educn. authorities, are represented on the bd. and are closely associated with the arrangement of its teaching work. Consultation also takes place through the East Anglian Regional Advisory Council for Further Educn. The teaching of the bd. consists mainly of: (a) univ. tutorial classes, extending over 3 winter sessions; (b) univ. sessnl. classes, usually of 20–24 meetings; (c) univ. extension lecture courses, usually of 10–12 meetings; (d) other special courses, many of a pioneer type. Bursaries are awarded annually to men and women in the adult educn. movement

who have shown themselves to be capable of profiting by a course of univ. study, but who, for various reasons, have not had the opportunity.

**Summer Schools.** The bd. holds vacation courses, incl.: (a) an annual summer sch., in co-op. with the W.E.A., mainly for students from tutorial and sessnl. classes, incl. a trg. course for potential tutors in adult educn.; (b) vacation courses for students from overseas, mainly Europe; (c) occasl. summer schs., in co-op. with facs. or depts. of the univ. to meet special requirements. For an experimental period the univ. has placed Madingley Hall at the disposal of the bd. in vacations, and the bd. has arranged there a considerable no. of residential courses for adults. These include courses for army and R.A.F. officers and also for members of the U.S.A.F., for managers, supervisors and apprentices in industry, for trade unionists and for teachers.

Further particulars from the sec., G. F. Hickson, [Cla.], MA, Stuart House, Cambridge (tel.: Cambridge 56275). Asst. secs.: J. M. Y. Andrew, [Cath.], MA; F. V. H. Ramsbottom, [Cath.], MA; A. A. M. Stripp, [Trin.], MA. For names of full-time tutors, see p. 869. The bd. also has the services of about 90 pt.-time tutors and lectrs.

**APPOINTMENTS BOARD.** The bd. helps undergrads. to decide upon the careers which might suit them, and brings together employers seeking recruits and undergrads. seeking employment. 941 permanent appts. were obtained in 1958. For officers, see 'Admin. and Other Staff', p. 870. Address: 6 Chaucer Rd., Cambridge. Telegrams: Appointments, Cambridge. Tel.: Cambridge 54242.

**THE WOMEN'S APPOINTMENTS BOARD** is also at 6 Chaucer Rd., Cambridge (tel.: Cambridge 52629). 55 permanent appts. were obtained in 1958.

**THE UNIVERSITY HEALTH SERVICE** (tel.: Cambridge 58217) is part of the dept. of human ecol. (For staff, see *Human Ecology*, p. 867). All students are invited to attend for a med. exam. in their 1st term. The Univ. Health Centre includes a gymnasium, and is situated at *Fenner's*, the univ. cricket, tennis and athletic grounds.

**GRADUATE ASSOCIATIONS.** There is no soc. of univ. grads., but each coll. has its own grads. assoc.

**UNION SOCIETY.** The Cambridge Union Soc. is open to all male members of the univ. Its best-known activity is debating, but it also contains a libr., restaurant and rooms for soc. activities.

**THE OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD**, established 1873, examines or inspects and reports on the work of schools which provide educn. of the highest grade. It also holds yrly. exams. and awards a General Cert. of Educn. (G.C.E.) which exempts the holder, under certain conditions, from responsions and the previous exam., the min. entrance requirements of London and other univs., and the prelim. exams. of various

professional bodies, etc. Its exams. are held at schs. in the British Isles, and also in the Middl East, the W. Indies and British Guiana. The regns. of the bd. are publ. by the Cambridge Univ. Press (post free, 2s. 6d.); for addresses see p. 889. Secs.: at Cambridge—A. E. E. McKenzie, [Trin.], MA, 10 Trumpington St (tel.: Cambridge 50658); at Oxford—G. J. R. Potter, MA *Oxon.*, 74 High St. (tel.: Oxford 43549).

**THE UNIVERSITY OF CAMBRIDGE LOCAL EXAMINATIONS SYNDICATE** is one of the examining bodies in England and Wales approved for sec. sch. exams. by the Ministry of Educn. Its membership includes univ. members, principals of schs. and reps. of local educn. authorities. The syndicate conducts sch. exams. in Gt. Britain and overseas, and exams. in Engl. for foreign students.

**General Cert. of Educn.** The exam. for the G.C.E. (at advanced and scholp. levels in June and at ord. level in July and Dec.) is entrusted to a sch. exams. cttee., one-half of whose members are teachers apptd. by the Jt. Cttee. of the Four Secondary Assocs. Sch. teachers, as members of subj. cttees., and as examiners, take a prominent part in this exam. The cert. exempts the holder under certain conditions, from univ. entrance requirements and the prelim. exams. of various professional bodies, and is endorsed by the Ministry of Educn. This exam. is not held in this form outside Europe. Special arrangements are made for the examination of members of H.M. Forces.

**School Exams. Overseas.** The jt. exam. for the sch. cert. and G.C.E. and the higher sch. cert. exam. is held in Dec. in India and Pakistan, Malaya, W. and E. Africa, the Fed. of Rhodesia and Nyasaland, the W. Indies, Mauritius and elsewhere in conjunction with the educn. authorities and in schs. for the British community in some foreign countries. In Malaya, the H.S.C. exam. is conducted jointly with the Univ. of Malaya. The exam. for the Federation of Malaya cert. of educn. is held in conjunction with the sch. cert. exam. in the Federation of Malaya. In W. Africa the sch. cert. is awarded jtlly. with the W. African Exams. Council and is named West African Sch. Cert. In the Sudan it is awarded jtlly. with the Sudan Exams. Council and is named Sudan Sch. Cert. Govt. scholps. to univs. in Gt. Britain are awarded on the syndicate's exams. in a number of countries of the British Commonwealth. The subjs. of these overseas sch. exams. correspond closely to those of the G.C.E. and normally carry the same exemptions in the U.K. In most areas where the exam. is taken candidates can obtain a G.C.E. cert. as well as or instead of a sch. cert. if they reach the necessary standard in 3 subjs.

**Exams. in English.** These exams. for foreign students, which are conducted in assocn. with the British Council, are held in Gt. Britain and about 50 countries overseas. The cert. of proficiency in English\*, which exempts the holder from the

\* The Univ. of London also awards a cert. of proficiency in Engl., see p. 976

## CAMBRIDGE

entrance test in English at certain univs., and the dipl. of English studies, which is intended to be of the same standard as a first exam. for a univ. hons. degree, carry the official approval of the Ministry of Education. There is also an exam. for a lower cert. in English.

The exam. for the *Cambridge Cert. in Religious Knowledge* is held in June; this cert. is designed for teachers, church workers and others who desire a satisfactory proof of their knowledge of the subj.

Full regns. (price 1s. each for G.C.E. exams. and overseas exams.) from the sec., Syndicate Buildings, Cambridge (tel.: Cambridge 55217). Sec.: J. L. Brereton, [Sid.], MA; asst. secs.: T. S. Wyatt, [Sid.], MA MLitt; A. V. Hardy, [Cath.], MA; E. J. Saunders, [Fitzw.], MA; assts. to secs.: Marie E. Overton, [Newn.], MA; R. D. Moore, MA; Janet M. Burchnall, [Girton], MA; R. C. Loinsworth, [Pemb.], MA; D. Garbutt, BSc Lond.

PUBLICATIONS. *The Student's Handbook*, 15s., annually (contains full information about courses of study and exams., entrance scholps., etc.); *Compendium of Univ. Regns.*, 9d.; *An Introduction to Cambridge*, by S. C. Roberts, 6s.; *Statutes and Ordinances of the Univ. of Cambridge*, 25s., every 3 yrs., annual supplements, 10s. 6d.; the *Annual Register*, 30s. (contains list of members of the univ., class-lists, scholp. winners, etc.); the *Historical Register*, 35s. (contains all recorded hons. class-lists, members of staff, prize-winners, etc., up to 1910), and its *Supplements*: 1911-20, 15s.; 1921-30, 21s.; 1931-40, 21s.; 1941-50, 25s.; 1951-55, 25s.; *Endowments of the Univ.*, 1904, 10s. 6d.; *Alumni Cantabrigienses*, ed. J. and J. A.

Venn, £10:10s. each vol. (contains biographical details of all members of the univ.: pt. I, 4 vols., to 1751; pt. II, 6 vols., 1752-1900); *Matriculations and Degrees*: 1544-1659, 70s.; 1851-1900, 30s.; 1901-12, 18s.; *University Ceremonies*, by H. P. Stokes, 15s.; *Cambridge Pocket Diary*, 6s., annually; *Cambridge Univ. Reporter*, 6d., weekly in term. The above are obtainable from the Cambridge Univ. Press, Bentley House, 200 Euston Road, London, N.W.1, and all booksellers.

Histories, etc.: *The City and Univ. of Cambridge*, ed. J. P. C. Roach (vol. 3 of the *Victoria Hist. of the County of Cambridge*); *Architectural History of Cambridge*, by R. Willis and J. W. Clark (4 vols.); *The Univ. of Cambridge in the 18th Century, Unreformed Cambridge, Early Victorian Cambridge, and Later Victorian Cambridge*, by D. A. Winstanley; and individual coll. histories.

Unofficial publicns.: *The Cambridge Review*; *Resident Members of the Univ.* (extra no. of *The Cambridge Review*, Oct., 6s.); *Varsity Handbook* (contains details of undergrad. clubs and socs.); *Varsity* (weekly undergrad. newspaper); *Granta*, etc.

CAMBRIDGE UNIVERSITY PRESS. The first printing-press in Cambridge was set up in 1521, and the univ. was authorized to print books by a charter of 1534. The Press now has a large publishing business, mainly of learned books. For staff, see 'Admin. and Other Staff', p. 870. Addresses: Trumpington St., Cambridge (tel.: Cambridge 51626); Bentley House, 200 Euston Rd., London, N.W.1 (telegrams: Cantabrigia, Norwest, London; tel.: Euston 5451); 32 East 57th St., New York, 22, U.S.A. (tel.: MU-8-8888).

### DEPARTMENTAL TELEPHONE NUMBERS (Cambridge exchange in each case)

Adviser to Overseas Candidates for Admission	58933	Education	55271	Oriental Studies	57141
Agriculture	58381	Engineering	55691	Overseas Studies	53951
Anatomy	51589	English	56980	Oxford & Cambridge Schs.	
Appl. Economics	55401	Estate Management	59781	Exams. Bd.	50658
Appts. Bd. (Men)	54242	Extra-Mural Studies	56275	Parasitology (Molteno Inst.)	50577
Appts. Bd. (Women)	52629	Fitzwilliam Museum	50023	Pathology	58251
Archaeol. & Anthropol.	50937	Genetics	55822	Pharmacology	50639
Architecture	54265	Geodesy & Geophysics	52103	Physics (Cavendish Lab.)	54481
Biochemistry	56288	Geography	53809	Physiology	58621
Botanic Garden	50101	Geology	50120	Psychology	51386
Botany	58304	Health Service	58217	Press, University	51626
Chem. Engineering	58231	Library	56261	Radiotherapeutics	58341
Chemistry	56491	Local Exams.	55217	Registry	58933
Classical Archaeol. (Mus.)	52410	Mathematics	55313	Res. Studies, Bd. of	58933
Colloid Science	56281	Medicine	58234	Scott Polar Res. Inst.	56457
Criminology	59196	Metallurgy	59501	Statistical Lab.	58312
Divinity	56980	Mineralogy & Petrology	55424	Veterinary Sch.	55641
Economics	53754	Mod. & Mediaev. Langs.	57602	Zoology	58717
		Observatories	52413		

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Wellcome Trust, grant not exceeding £120,000 towards cost of new wing for dept. of biochem.; Isaac Wolfson

Foundation, £150,000 to establish chair of criminol. and for other endowment of inst. of criminol.; resid. estate of W. G. Collins, est. at



£35,000, for res. in engin.; resid. estate of H. Watson, est. at £20,000, for study of malacology.

NEW DEPARTMENTS AND CHAIRS. Inst. and chair of criminol.; chair of radio-astron.

RETIREMENTS. Prof. Sir James Gray (zool.); J. Line (agric. bot.); W. S. Mansfield (dir. univ. farm); H. H. Nicholson (soil sci.); Prof. G. R. Owst (educn.); Sir Kenneth Pickthorn, Bt. (hist.); Dr. E. M. W. Tillyard (master of Jesus Coll.); Dr. A. S. Watt (forest bot.); Miss E. E. H. Welsford (Engl.); Sir James Wordie (master of St. John's Coll.).

RESIGNATIONS. Prof. T. R. C. Fox (chem. engin.); G. D. Greville (biochem.), apptd. hd. of biochem. dept. at Agric. Res. Council Inst. of Animal Pathol.; Dr. A. R. Hall (hist. of sci.), apptd. res. prof., Calif.; K. P. Harrison (biochem.); J. R. McEwan (Jap. hist.); Dr. G. D. S. MacLellan (engin.), apptd. to Rankine chair of engin., Glas.; Dr. S. V. Perry (biochem.), apptd. to chair of biochem., Birm.; N. F. Robertson (bot.), apptd. to chair of bot., Hull; Dr. J. A. T. Robinson (div.), apptd. Bishop Suffr. of Woolwich; Mrs. J. E. van Lohuizen (Indian studies), apptd. to chair of S. and S.E. Asian Art and Archæol., Amst.

DEATHS. H. Barnes (lectr. in law); G. M. Bennett (former fellow, St. John's Coll.); R. P. Casey (dean of Sid. Suss. Coll.); R. J. Lean (engin.); W. H. Mills (emer. reader in stereochem.); A. C. Pigou (emer. prof. of polit. econ.); A. W. Shutter (asst. under-librarian).

HONORARY DEGREES. *LLD*—L. C. G. Clarke, formerly dir. of Fitzw. Museum; Le Corbusier; Henry Moore; Sir Thomas Williamson, gen. sec., Natl. Union of Gen. and Munic. Workers. *ScD*—Homi Jehangir Bhabha, chairman, Atomic Energy Commission, India; Sir Vivian Fuchs.

*LittD*—T. F. T. Plucknett, prof. of legal hist., Lond. *MusD*—Benjamin Britten. *MA*—G. R. Crowe.

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	8130	—
Women . . .	808	—

Total 8938

*Included in the figures above are :—*

Postgraduate students, 1466.

New admissions, 2834.

Students from other countries, 746. (Countries from which largest numbers came : U.S.A., 103; India, 78; Australia, 72; S. Africa, 59; Canada, 43; Pakistan, 39; New Zealand, 27; Ceylon, 18; Malaya, 15).

DEGREES AWARDED (1958-59). *All facs.* : BA (hons.), 2067; BA (ord.), 210; MA, 1826; PhD, 182. *Law* : LLB, 60; LLD, 1. *Med.* : MB, 176; BChir, 167; MB BChir, 18; MChir, 5; MD, 26. *Music* : MusB, 5. *Sci.* : MSc, 6; ScD, 13. *Vet. med.* : VetMB, 11. *Total number of first degrees awarded*, 2277.

DIPLOMAS AWARDED (1958-59). Agric., 17; agric. sci., 4; anthropol., 5; archit., 9; classical archæol., 1; estate management, 1; mathl. stats., 7; numerical analysis & automatic computing, 10; prehist. archæol., 2.

CERTIFICATES AWARDED (1958-59). Educn., 207; advanced study in engin., 9; hist. and philos. of sci., 2; competent knowledge in mod. langs., 7.

# UNIVERSITY OF DURHAM\*

Founded 1832

## Postal Addresses (University Offices) :

46 North Bailey, Durham, England. Telephone : Durham 3355-6

1A Kensington Terrace, Newcastle upon Tyne 2, England. Telephone : Newcastle 21278

(Correspondence should be addressed to the Durham office unless otherwise indicated)

VISITOR—THE LORD BISHOP OF DURHAM

CHANCELLOR—The Rt. Hon. THE EARL OF SCARBROUGH, KG, GCSI, GCIE, GCVO, TD, BA *Oxon.*, Hon. LLD *Leeds, Lond. & Sheff.*, Hon. DCL

VICE-CHANCELLOR (from Aug. 1, 1961) §—D. G. CHRISTOPHERSON, OBE, DPhil *Oxon.*, FRS, MIMechE, Warden of the Durham Colleges

PRO-VICE-CHANCELLOR (from Aug. 1, 1961) §—C. I. C. BOSANQUET, MA *Oxon. & Camb.*, Hon. DCL, Rector of King's College, Newcastle upon Tyne

HON. TREASURER—The Most Hon. THE MARQUIS OF NORMANBY, MBE

REGISTRAR—E. M. BETTENSON, MA *Camb.*

## ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICES. Dep. Registrar : G. A. Chadwick, BSc *Liv.* Asst. Registrar : W. E. Saxton, MA *Camb.*, PhD *Edin.* Finance Officer : R. S. Bournemouth, MA *Oxon.*

APPOINTMENTS BOARD OFFICE. Appts. Officer : H. V. Walters, BSc PhD *Lond.*, FIP. Dep. Appts.

Officer : J. K. Hudson, MA *Oxon.* Asst. Appts. Officers : T. C. Archbold, BSc ; A. Pickles, MSc *Leeds.*

SCHOOL EXAMINATIONS OFFICE, 8 Sydenham Terrace, Newcastle upon Tyne, 2. Sec. : P. N. Anderson, BA *Belf.*

## DIVISIONS OF THE UNIVERSITY

DURHAM COLLEGES : *see* p. 895.

KING'S COLLEGE, NEWCASTLE UPON TYNE : *see* p. 902.

## AFFILIATED COLLEGES

A. Colls. in which students may matriculate, keep terms and pass exams., and so qualify for degrees without coming to England :

CODRINGTON COLLEGE, Barbados, British West Indies. Trustees (under the will of Christopher Codrington, who died in 1710)—the Soc. for the Propagation of the Gospel. Affiliated to Univ. of Durham in 1875. In 1955 the Community of the Resurrection, Mirfield, assumed direction of the coll. and pastoral care of the estates. Visitor—the lord bishop of Barbados ; principal—Rev. R. A. M. Genders, MA *Oxon.*

FOURAH BAY COLLEGE, P.O. Box 87, Freetown n, Sierra Leone, W. Africa : *see* p. 710.

B. Coll. affiliated in the schools of mech. marine, civil and electr. engin. :

SUNDERLAND TECHNICAL COLLEGE, Sunderland, Co. Durham (tel. : Sunderland 4447). Founded in 1901. Affiliated in 1930 under Univ. of Durham Act, 1908. The coll. is represented on senate and on bd. of the fac. of appl. sci. Principal—D. A. Wrangham, DIC, MSc *Lond.*, MIMechE. Approx. 230 univ. level students.

\* Member of the Association of Universities of the British Commonwealth.

§ The warden of the Durham Colls. and the rector of King's Coll. are alternately vice-chancellor and pro-vice-chancellor for 2-yr. terms.

## GENERAL INFORMATION

The univ. was establd. in 1832. The Coll. of Medicine, founded in Newcastle in 1834, was associated with the univ. first in 1852 and more closely in 1870. The Durham Coll. of Physical Sci., later Armstrong Coll., was founded in 1871 in Newcastle as a part of the univ. The reconstitution of 1908 brought the Durham Colls., the Coll. of Medicine and Armstrong Coll. into a closer relationship. The reconstitution of 1937 carried the process further, establishing a central financial control. It also merged the two Newcastle colls. in King's Coll., Newcastle upon Tyne.

**CONSTITUTION.** The univ. is governed by a visitor, chancellor, vice-chancellor, pro-vice-chancellor, convocation, court, senate and bds. of facs. It includes two divisions, namely, the Durham division and the Newcastle division. The Durham division is governed by a council, an academic bd. and a warden; the Newcastle division by a council, an academic bd. and a rector. The warden and rector are alternately vice-chancellor and pro-vice-chancellor of the univ. for 2-yr. terms.

Convocation is the body of grads. which may make representations to the univ. on any univ. matter. The court appoint profs. and readers on the recommendation of senate, determine the allocation of all funds at the disposal of the univ. and represent the univ. in all negotiations for obtaining grants from public bodies. Senate determine the conditions on which academic distinctions are awarded and are the supreme governing and executive body of the univ. in all academic matters. The central activities of the univ. controlled by senate and court include all degree exams. and a number of specialized activities such as the appts. bd., publicns. bd., sch. exams. bd., inst. of educn., computing lab. and the museum of Roman British antiquities.

The divisions control admission to courses and all teaching. The councils are the governing and executive bodies of the divisions and are advised on academic matters by the academic bds.

For the divisions and affiliated colls., *see below* and p. 891.

**INCOME (1958-59).** £2,790,143, incl. recurrent Treasury grant allocated to the divisions (Durham division, £356,514; Newcastle division, £1,161,602).

**LIBRARIES.** *See* pp. 901 and 911.

**FACULTIES AND DEANS.** (1959-61) *Agric.*, Prof. M. M. Cooper; *appl. sci.*, Prof. E. L. J. Potts (mining engin.); *arts*, Prof. C. Leech (Engl.); *econ. studies*, Dr. K. S. Reid (Spanish); *law*, .....; *med.*, Prof. A. G. R. Lowdon; *music*, Dr. C. Burns; *sci.*, Prof. A. E. Green (appl. maths.); *theol.*, Prof. H. E. W. Turner (div.); (1960-62) *educn.*, Prof. E. J. R. Eaglesham.

**UNIVERSITY COMPUTING LABORATORY.** Housed in Newcastle upon Tyne, with a Pegasus electronic digital computing machine ('Ferdinand'). The

lab. works in close contact with depts. in both divisions and is available for use by interests outside the univ. Dir.: E. S. Page, MA PhD (Camb., BSc Lond).

**EXCAVATION COMMITTEE.** The excavation cttee. of senate supervises a campaign of excavation and trg. in archaeol. methods in the Roman frontier region. A trg. course for students in archaeol. is normally held at Corbridge in July each yr.

**MUSEUM OF ANTIQUITIES** of the University of Durham and of the Society of Antiquaries of Newcastle upon Tyne. The museum, provided by the univ., houses the collection of the soc. and other exhibits. Keeper & sec.: D. J. Smith, BA PhD.

**ADMISSION.** *See* pp. 901 and 911, and Appendix II.

**FIRST DEGREES.** BA, BSc (in sci., appl. sci. or agric.), BA(EconStudies), 3 yrs. (for hons., 3 or 4 yrs.); the gen. degree in sci. may be awarded with hons.; BA(SocStudies), BA (in oriental studies), LLB, 3 yrs.; BA (in fine art), 4 yrs.; BA (Town & Country Planning), BArch, 5 yrs.; MB BS, 6 yrs. of med. study (3 yrs. at least in med. sch. at Newcastle); BDS, 6 yrs.; BMus is an external degree. All other first degrees require full-time attendance at courses.

*Honours courses:* anthropol., classics, econ., Engl., French, German, geog. (arts & sci.), Greek, Latin, maths. (arts & sci.), mod. hist., music, philos., psychol., pol., Scandinavian studies, Spanish, theol., oriental studies, fine art, town & country planning. Archit. Medicine. Dental surg. Appl. phys., chem. engin., civil engin., electr. engin., marine engin., mech. engin., metall., mining engin., naval archit. Bot., chem., geol., phys., physiol., psychol., zool. Agric. Econ. studies. Law.

**HIGHER DEGREES.** BD, 9 terms. DD, 10 yrs from BA, 5 yrs. from BD. MA, 6 terms from graduation (except in music); MA(EconStudies), 6 terms from graduation; MLitt, 3 yrs.; MEd, 3 yrs.; DLitt, 10 yrs. from graduation (except in music); BCL, 6 terms from graduation (except in music and law); MD, 2 yrs. from MB BS; MS, 5 yrs. from MB BS; DHy, 6 yrs. from MB BS; MDS, 2 yrs. from BDS; DDSoc, 4 yrs. from MDS or 6 yrs. from BDS; MSc, 2 yrs. from BSc; DSc, 4 yrs. from MSc or PhD, or 7 yrs. from BSc; MMus, 9 terms from BMus; DMus, 6 terms from MMus; LLM, 2 yrs. from LLB or BCL; LLD, 4 yrs. from LLM or 6 yrs. from LLB; PhD, 3 yrs. from admission as candidate.

Grads. of other univs. are admissible to the following higher degrees, after pursuing studies indicated: MLitt, 3 yrs. under supervision; MA(EconStudies), not less than 2 yrs. and not more than 4 yrs. in a course of advanced study or res. under supervision; MEd, 2 yrs. full-time

3 yrs. pt.-time, under supervision; MSc, 1 yr. full-time, 2 yrs. pt.-time advanced study and res. under supervision; MDS, not less than 2 yrs. advanced study or res. under supervision; MMus, on exam. and exercise; LLM, not less than 2 yrs. and not more than 4 yrs. advanced study or res. under supervision; PhD, 3 yrs., incl. not less than 2 yrs. full-time advanced study or res. under supervision in the univ.

DCL awarded only as hon. degree. PhD awarded only as 'earned'. All other higher degrees both hon. and 'earned'. No first degrees hon.

LICENCE. Dental surg., open to matriculated students after 4 yrs. professional study subsequent to registration.

DIPLOMAS. *Anthropol.*, 2 yrs., open to grads. of approved univs.; *appl. electronics*, 3 terms, open to grads. in pure or appl. sci. of approved univs. or to candidates with specially approved qualifs.; *Arabic*, 3 terms, open to grads. of approved univs.; *archit.*, 5 yrs.; *bibl. stud.*, 3 terms, open to grads. of approved univs.; *econ. stud.*, 2 yrs.; *educn.* (awarded by Inst. of Educn.; see below, under 'Institute of Education', for other qualifs. awarded by the inst.), 1 yr., open to grads. of approved univs.; *electr. power engin.*, 3 terms, open to grads. in appl. sci. of approved univs. or to candidates with specially approved qualifs.; *foreign langs.*, open to grads. of the univ. in any fac. except music; *highway & traffic engin.*, 3 terms, open to grads. in appl. sci. (civil engin.) of approved univs. or to candidates with specially approved qualifs.; *landscape design*, 3 terms; *numerical analysis & automatic computing*, 3 terms, open to grads. of approved univs. or to candidates with specially approved qualifs.; *psychol. med.*, 6 terms (pt.-time), open to candidates who have held a registrable med. qualif. for not less than 6 mos. and a resident hosp. appt. in gen. med.; *pub. admin.*, 2 yrs.; *pub. health*, 5 terms (pt.-time), open to candidates who have held a registrable med. qualif. for not less than 2 yrs.; *pub. health engin.*, 3 terms, open to grads. in appl. sci. (civil engin.) of approved univs. or to candidates with specially approved qualifs.; *theol.*, 6 terms, open to grads. of univs. of British Commonwealth; *town planning*, 3 terms, open to holders of a cert. in town planning.

CERTIFICATES. *Bibl. studies*, 3 terms. *Soc. studies*, 2 yrs.

POSTGRADUATE AWARDS open to graduates of other univs.: see p. 825.

FEES. Matric. (non-recurrent), £2. Exams. (for the course): BA, LLB, BSc, £10: 10s.; BA (in fine art), £10; BArch, £12: 10s.; MB BS, £34; BDS, £24; MA, £6; MLitt, MSc, MA(EconStudies), LLM, £8; MMus, MDS, £10; PhD, MD, MS, £12; DD, DSc, DLitt, LLD, DHy, DDS, £15; MED, £12; BD, £13; BCL, £15; BMus, £19; DMus, £11. Degrees—for initial degrees, £4 (BMus, £5); for master's degrees, BCL, BD, PhD, £5; for higher doctor-

ates, MS, £10 (DMus, £15). For tuition fees, see below under Durham Colls. and King's Coll.

ACADEMIC YEAR. Oct. to June. 3 terms (Durham Colls., 8 or 9 wks. each; King's Coll., Newcastle upon Tyne, 9½ or 10½ wks. each).

The UNIVERSITY APPOINTMENTS OFFICE (see p. 891) covers both the Durham Colls. and King's Coll., Newcastle upon Tyne. Addresses: 10 Kensington Terrace, Newcastle upon Tyne, 2 (tel.: 29827), and 61 Saddler St., Durham (tel.: 2342).

EXTRA-MURAL WORK. In conjunction with the N. district of the W.E.A., the univ. in its two divisions provides tutorial classes, sessional classes and univ. extension courses in a wide variety of subjects for extra-mural adult students in the counties of Durham, Northumberland, Cumberland and Westmorland. These classes are conducted by divisional bds. for extra-mural studies under the Ministry of Educn. regns. for adult educn. and are partly financed by grants from the ministry and from L.E.A.s.

VACATION COURSE. See 'Excavation Cttee.', above.

SCHOOL EXAMINATIONS BOARD. Conduct exams. for award of the General Cert. of Educn. Regns. and syllabuses (price 3s. post free) may be obtained from 8 Sydenham Terrace, Newcastle upon Tyne, 2 (tel.: 22233). Sec.: P. N. Anderson, BA Belf.

GRADUATES' ASSOCIATIONS. The Durham Univ. Soc. (Lond.) was founded in 1921. Meetings held in London. Hon. sec.: M. M. Leask, BA, 158 Longlands Rd., Sidcup, Kent. (See also under DIVISIONS.)

UNIVERSITY NAVAL, MILITARY AND AIR FORMATIONS. Details from: R.N.V.R.: Surgeon Lt.-Cdr. J. H. Farrell, Sutherland Dental Sch., Newcastle upon Tyne (tel.: 24176). O.T.C. (T.A.): Adjutant, H.Q. Durham Univ. O.T.C., Yeomanry Drill Hall, Northumberland Rd., Newcastle upon Tyne, 1 (tel.: 27238). Air Squadron: Sec., Durham Univ. Air Squadron, 7 Windsor Cres., Jesmond, Newcastle upon Tyne (tel.: 81-3093). W.R.A.C.: Admin. Officer, W.R.A.C., Yeomanry Drill Hall, Northumberland Rd., Newcastle upon Tyne, 1 (tel.: 27238).

INSTITUTE OF EDUCATION. The inst. examines students in the univ. depts. of educn., and in trg. colls. associated with the univ. through the inst., and provides facilities for further study for teachers already qualified and in practice. The inst. awards the univ.'s dipl. in educn. (open to grads. of approved univs.) after 1 yr.'s course. The inst. also awards the following qualifs. on courses open to teachers of at least 5 yrs. experience: dipl. in educn. of young children, 1 yr. full-time plus some pt.-time study, 3 yrs. pt.-time; dipl. in further study of sec. educn., 3 yrs. pt.-time; dipl. in educn. of handicapped children, 1 yr. full-time plus some pt.-time study; cert. for approved sch. housemasters and house-

mistresses, 1 yr. full-time; cert. in 'subject teaching' in sec. schools, 2 yrs. pt.-time; associateship in educn. for overseas teachers, 1 yr. full-time. The headquarters of the inst. are at 19 Leazes Terrace, Newcastle upon Tyne, 1 (tel.: Newcastle 28604), and the Durham office is at Kepier Terrace, Gilesgate, Durham (tel.: Durham 2461).

**Staff of Institute.** Dir.—B. Stanley, MA Oxon. Staff tutors—A. Arnot, MA Edin.; R. D. Bramwell, MA Birm., PhD; Dorothy I. E. Cann; W. Fawcus, MA; Mrs. Winifred Fawcus, MA; Mrs. Dorothy Heathcote, MA; F. Lloyd, BA Wales, MEd Natal; R. Morris, MA Oxon.; L. A. Stenhouse, MA St.And., EdB Glas.; Mabel F. Wilson, BA. Librarian—J. D. Dews, MA Camb. Admin. assts.—Elsie Wightman (sec. for exams.); A. K. Grieve, MC, MA Camb.

**Training Colls.** Alnwick Trg. Coll. (principal—Winifred Taylor, BSc Lond.); Bede Coll., Durham (principal—K. G. Collier, MA Camb.); Darlington Trg. Coll. (principal—Olive M. Stanton, MA Camb. & Birm.); Domestic Science Coll., Newcastle upon Tyne (principal—Irene Rowland, MA Lond., BSc Liv.); Kenton Lodge Trg. Coll., Newcastle upon Tyne (principal—Mary A. Robson, MA Manc.); Neville's Cross Coll., Durham (principal—Mary Whitley, BA Liv.); St. Hild's Coll., Durham (principal—

Nina M. E. Joachim, MA Oxon.); St. Mary's Coll., Fenham, Newcastle upon Tyne (principal—Madame Angela M. Ward, MA Lond.); Sunderland Trg. Coll. (principal—Joyce T. Tasker, MA Camb.); Wynyard Hall Trg. Coll. (principal—Edna M. Robinson, MA Sheff.).

**PUBLICATIONS.** *Univ. Calendar* (Oct.), vol. I.—almanack, statutes, lists, etc.; vol. II.—regns. for degrees: 7s. 6d. per vol.; list of *Grads. of the Univ.* (1954); *Univ. of Durham Gazette*, annual sub. 2s. 6d.; *Durham Univ. Journal*, once a term, annual sub. 6s. 6d.; *Riddell Memorial Lectures* (annual), 9s. 6d.; *The Univ. of Durham 1832-1932*, by C. E. Whiting (Sheldon Press, London, 1932); *Report of Royal Commission on the Univ. of Durham* (H.M.S.O., London, 1935); *The Newcastle upon Tyne Sch. of Medicine 1834-1934*, by Turner and Arnison (Andrew Reid & Co. Ltd., Newcastle upon Tyne, 1934). The Inst. of Education publishes a *Journal* 5 times a yr., annual sub. 2s. 6d., and the *Durham Research Review*, annually, 5s.

**PUBLICATIONS BOARD.** The bd. are a cttee. of senate, founded in 1950 in order to arrange for the publicn. of a series of monographs, sponsored by the univ. and known as Univ. of Durham Publicns., although they are publ. by the Oxford Univ. Press. The bd. expect to publish about 2 vols. a yr.

## THE YEAR 1959

**NEW PROFESSORSHIPS.** Newcastle div.: archit. (J. H. Napper) (personal); dermatol.; German and Scandinavian studies.

**NEW READERSHIP.** Newcastle div.: gas dynamics (Dr. F. J. Bayley) (personal).

**NEW DEPARTMENT.** Museum of Antiquities of Univ. of Durham and of the Soc. of Antiquaries of Newcastle upon Tyne.

**RESIGNATION.** I. E. Graham (asst. registrar), apptd. sec. of the Durham Colls.

**HONORARY DEGREES.** DCL—Very Rev. I. Brodie, chief Rabbi; A. G. Grant, managing dir., Whessoe Ltd., Darlington; The Viscountess Ridley. DSc—Dr. H. H. Kuehne, industr. chemist. DLitt—W. C. F. Plomer, novelist and poet. DDSc—Sir Eric W. Fish, pres., General Dent. Council. MA—S. Medsforth, sec., Northern Counties Tech. Exams. Council.

### Statistics

STUDENT NUMBERS, 1959-60\*  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	4006	303
Women . . .	1088	117
Total . . .	5094	420 ‡

\* Durham and Newcastle divisions only.

‡ Includes 74 MEd candidates, registered and studying in both Durham and Newcastle divisions.

|| Including affiliated colleges.

Distribution by Faculties. Agric., 161; appl. sci., 723; arts, 1989; dent. surg., 339; econ. studies, 141; educn., 290 §; law, 112; med., 483 sci., 1183; theol., 93. Total: 5514.

Included in the figures above are:—

Postgraduate students, 691.

New admissions, 1462.

Students from other countries, 295. (Countries from which largest numbers came: Norway, 38; Nigeria, 31; Ghana, 23).

**DEGREES AWARDED (1958-59).**|| Agric.: BSc, 25; BSc (hons.), 5; MSc, 3; DSc, 2. Appl. sci.: BSc, 135; BSc (hons.), 108; MSc, 8; MSc(AgricEng), 6. Archit.: BArch, 2; BACh (hons.), 3. Arts: BA, 182; BA (hons.), 254; MA, 16; MLitt, 5; BCL, 3. Econ. studies: BA(EconStudies), 22; BA(EconStudies) (hons.), 5; MA(EconStudies), 2. Educn.: MEd, 5. Law: LLB, 3; LLB (hons.), 18. Med. (incl. dent. surg.): MB BS, 64; MB BS (hons.), 4; MD, 6; BDS, 20; BDS (hons.), 2; DDSc, 1. Music: BMus, 6. Sci.: BSc, 57; BSc (hons.), 210; MSc, 11; DSc, 2. PhD (all facs.): 52. Total number of first degrees awarded, 1125.

DIPLOMAS AWARDED (1958-59).<sup>\*</sup> Archit., 12 ; educn., 198 ; electr. power engin., 1 ; foreign langs., 1 ; highway engin. & traffic studies, 4 ; landscape design, 4 ; psychol. med., 5 ; pub. health engin., 5 ; theol., 13 ; town planning, 7.

CERTIFICATES AWARDED (1958-59).<sup>\*</sup> Bibl. studies, 3 ; soc. studies, 4.

LICENCES AWARDED (1958-59).<sup>\*</sup> Dent. surg., 33 ; theol., 1.

[Information compiled as at 12/8/60]

## DURHAM COLLEGES

Founded 1832

### Postal Addresses :

Warden, Treasurer and Secretary : 38 North Bailey, Durham, England

(Telephone : Durham 2233-4)

Librarian : Palace Green, Durham, England (Telephone : Durham 2654)

WARDEN—D. G. CHRISTOPHERSON, OBE, DPhil *Oxon.*, FRS, MIMechE (Pro-Vice-Chancellor of the University)

CHAIRMAN OF COUNCIL—E. F. COLLINGWOOD, CBE, MA PhD ScD *Camb.*, Hon. DSc

SECRETARY—I. E. GRAHAM, MA *Edin.*

TREASURER—Col. J. C. R. FITZGERALD-LOMBARD, OBE, MA *Camb.*

LIBRARIAN—D. G. RAMAGE, MA *Edin.*, FLA

## TEACHING STAFF

[† = Part-Time]

**Arabic**, see Oriental Studies

### Archæology

Birley, E., MBE, MA *Oxon.*, FSA  
(Roman-Brit. Hist. & Archæol.) Prof.  
Cramp, Rosemary J., MA BLitt *Oxon.*, FSA  
(Anglo-Saxon Antiquities & Archæol.)  
Lectr.  
Mann, J. C., BA PhD *Lond.*  
(Roman-Brit. Hist. & Archæol.) Lectr.

### Botany

Valentine, D. H., MA PhD *Camb.*, FLS Prof.  
Crosby, J. L., MA PhD *Camb.* Sr. Lectr.  
Chalklin, Kathleen M., MSc *Wales* Lectr.  
Banbury, G. H., BSc *Lond.* Lectr.  
Watson, Pauline, BSc PhD *Lond.* Lectr.  
Bellamy, D. J., BSc *Lond.* Lectr.

### Chemistry

Coates, G. E., MA *Oxon.*, DSc *Brist.*,  
FRIC Prof.

Musgrave, W. K. R., PhD DSc *Birm.*  
(Org. Chem.) Prof.  
Martin, G. R., BSc *Lond.*, FRIC  
(Radiochem.) Reader  
Christie, G. H., MSc PhD *Sheff.*, FSA Sr. Lectr.  
Kohnstam, G., BSc PhD *Lond.* Sr. Lectr.  
Gibby, C. W., MSc PhD *Lond.*, FRIC,  
FSA Lectr.  
Glockling, F., BSc PhD *Brist.* Lectr.  
Weston, M., MA *Camb.*, PhD *Leeds*  
(Radiochem.) Lectr.  
Shearer, H. M. M., BSc PhD *Glas.* Lectr.  
Lyle, S. J., MSc *Belf.*, PhD *Birm.*  
(Radiochem.) Lectr.  
Chambers, R. D., BSc PhD Lectr.  
1 Res. Fellow, 1 Res. Asst., 1 I.C.I. Fellow

### Classics and Ancient History

Woodcock, E. C., MA *Camb.* (Lat.) Prof.  
Skemp, J. B., MA *Camb.*, PhD *Edin.* (Gk.) Prof.  
Wright, R. P., MA *Camb.*, FSA Sr. Lectr.

Including affiliated colleges

Collinge, N. E., MC, MA *Camb.*  
 Williams, R. T., MC, MA *Wales*  
 Badian, E., MA *N.Z. & Oxon.*,  
 DPhil *Oxon.*  
 Bargrave-Weaver, D., MA *Camb.*, PhD  
 Jenkinson, Edna M., MA PhD *Camb.*  
 Mills, K. W., MA *Oxon.*  
 Sandys-Wood, A. L., BA *Brist.*, MA *Camb.*,  
 BLitt *Oxon.* (Anc. Hist.) †Lectr.  
 Ford, Josephine M., BA *Nott.* †Lectr.

**Divinity**, see Theol.

**Economics**, see Soc. Studies

### Education

Eaglesham, E. J. R., MA BED *Edin.*,  
 LLB *Lond.* Prof.  
 Grant, J. J., CBE, MA EdB *Glas.*,  
 Hon. DCL Dep. to Hd. of Dept.  
 Willatt, J. F., TD, MA *Camb.*, MEd Sr. Lectr.  
 Tallentire, Mrs. Ethel M., BSc Lectr.  
 Hewitt, E. A., BA *Brist.*, MEd Lectr.  
 Calvert, Florence I., MA *Sheff.* Lectr.  
 Hartop, B. B., MA BED *Edin.* Lectr.  
 Turner, S., BSc Lectr.  
 May, P. R., BA *Manc.* Lectr.  
 Pennington, A., BSc *Manc.*, MEd †Lectr.  
 3 Lectrs.†

**Egyptology**, see Oriental Studies

### English Language and Literature

Leech, C., MA PhD *Lond.* Prof.  
 Smithers, G. V., MA *Oxon.* (E. Lang.) Prof.  
 Brooke, N. S., MA *Camb.* Lectr.  
 Foakes, R. A., MA PhD *Birm.* (on leave) Lectr.  
 Ivy, G. S., MA *Camb. & Prin.*,  
 PhD *Lond.* Lectr.  
 Cunningham, J. S., BLitt *Oxon.*, BA Lectr.  
 Preston, Priscilla J., MA *Lond.* Lectr.  
 Lever, J. W., MA *Oxon.* Temp. Lectr.

### French

Lough, J., MA PhD *Camb.* Prof.  
 Allen, L., MA *Manc.* Sr. Lectr.  
 Wilson, D. B., MA *Camb.*, DUParis Lectr.  
 Mossop, D. J., MA *Cape T.*, DUParis Lectr.  
 Marshall, J. H., MA *Oxon.* Lectr.  
 Kearns, E. J., BA DPhil *R'dg.* Lectr.  
 Anderson, R., MA *Aberd.* Lectr.  
 Scott, Ethleen M., MA *Lond.* Hon. Lectr.  
 1 Lecteur, 1 Lectrice

### Geography

Fisher, W. B., BA *Manc.*, DUParis, FRAI Prof.  
 Bowen-Jones, H., MA *Camb.* Sr. Lectr.  
 Holmes, C. W., MA Lectr.  
 Dewdney, J. C., MA *Edin.* Lectr.  
 Clarke, J. I., MA PhD *Aberd.* Lectr.  
 Proudfoot, V. B., BA PhD *Belf.* Lectr.

Sr. Lectr. Willimott, S. G., BSc *Liv.*, PhD *Liv. & Camb.*  
 Lectr. (Soil Sci.) Lectr.  
 Sunderland, E., MA *Wales*, PhD *Lond.*  
 (Anthropol.) Lectr.  
 Slater, L., MA *Camb.* Hon. Lectr.  
 Beeley, B. W., BA PhD Res. Fellow  
 1 Res. Asst.

### Geology

Dunham, K. C., SD *Harv.*, PhD DSc,  
 FRS Prof.  
 Hopkins, W., PhD DSc, FGS Reader  
 Phillips, R., BSc *Leeds*, FGS (Mineral.) Lectr.  
 House, M. R., MA *Camb.*, PhD Lectr.  
 Bott, M. H. P., MA PhD *Camb.*  
 (Geophys.) Lectr.  
 Emeleus, C. H., MSc *Belf.*, DPhil *Oxon.* Lectr.  
 Johnson, G. A. L., BSc PhD Lectr.  
 Hirst, D. M., BSc PhD *Manc.*  
 (Geochem.) Lectr.  
 Whitworth, T., MA DPhil *Oxon.* Hon. Lectr.  
 1 Res. Asst., 1 I.C.I. Fellow

### German

Scott, D. F. S., MA *Lond.*, DrPhil *Gött.* Prof.  
 Orton, G., MA *Oxon.* Sr. Lectr.  
 Morrall, E. J., MA *Lond.* Lectr.  
 Smeed, J. W., MA PhD *Wales* Lectr.  
 1 Lektor

**Hebrew**, see Oriental Studies

### History

Hughes, E., MA *Manc.* (Mod. H.) Prof.  
 Offler, H. S., MA *Camb.* (Mediæv. H.) Prof.  
 Harriss, G. L., MA DPhil *Oxon.* Lectr.  
 James, M. E., MA *Oxon.* Lectr.  
 Ellis, K. L., MA DPhil *Oxon.* Lectr.  
 Anstey, R. T., MA *Camb.*, PhD *Lond.* Lectr.  
 Wallace, W. V., MA *Glas. & Lond.* Lectr.  
 Lowe, C. J., BA PhD *Lond.* †Lectr.

### Mathematics

Reuter, G. E. H., MA *Camb.* (Pure Maths.) Prof.  
 Stewartson, K., MA PhD *Camb.*  
 (Appl. Maths.) Prof.  
 Baxter, E. F., MA *Camb.*, MSc *Lond.* Sr. Lectr.  
 Kurth, O. E. W. R., PhD *Berne* Sr. Lectr.  
 Smith, R. A., BSc *Syd.*, MA PhD *Camb.* Lectr.  
 Atkin, A. O. L., MA PhD *Camb.* Lectr.  
 Wilson, D. H., MSc *Lond.* Lectr.  
 Armitage, J. V., BSc PhD *Lond.* Lectr.  
 Hawgood, J., BA DPhil *Oxon.* Lectr.  
 Riley, N., BSc PhD *Manc.* Lectr.  
 Holgate, S., MA PhD Hon. Lectr.

### Music

Hutchings, A. J. B., BA BMus PhD *Lond.*,  
 FTCL Prof.  
 Dickinson, A. E. F., MA BMus *Oxon.* Sr. Lectr.  
 Harman, R. A., BMus Lectr.  
 Evans, P. A., MA BMus, FRCO Lectr.

**Oriental Studies**

- Thacker, T. W., MA *Oxon.*  
(Semitic Philol.) Prof.  
Rawson, P. S., MA *Lond.*  
Curator of Gulbenkian Museum  
Macadam, M. F. L., BA DPhil *Oxon.*,  
FSA (Egyptol.) Reader  
Simpson, C. G., BA *Lond.* (Turkish) Reader  
Thornhill, Rev. R., MA (Hebrew) Lectr.  
Bagley, F. R. C., MA *Oxon.* (Persian) Lectr.  
Hill, R. L., MA BLitt *Oxon.*  
(Nr. E. Hist.) Lectr.  
Dawson, R. S., MA *Oxon.*  
(Chinese Lang. and Civ.) Spalding Lectr.  
Basu, A., MA *Calc.*  
(Indian Philos.) Spalding Lectr.  
Dabbagh, H. M. A., BA *Lond.* (Arabic) Lectr.  
Kuhn, K. H., BA PhD (Hebrew) Lectr.  
Haywood, J. A., MA *Sheff.*, BMus  
(Arabic) Lectr.

**Palaography and Diplomatic**

- Fagg, J. E., MA *Camb.* Reader  
Scammell, G. V., MA *Camb.* Lectr.  
Hudleston, C. R., MA, FSA †Lectr.  
Snape, M. G., MA *Camb.* Asst. Keeper  
Million, N. M., BA *Oxon.* Asst. Keeper  
Doug, R. P., MA PhD *St.And.* Asst. Keeper  
1 Asst.

**Persian, see Oriental Studies****Philosophy**

- Grant, C. K., MA DPhil *Oxon.* Prof.  
von Leyden, W., DPhil *Florence & Oxon.*  
Sr. Lectr.  
Bretherton, Doreen G., BA PhD *Lond.* Lectr.  
Taylor, Mrs. Mabel H., BA *W.Aust.*,  
MA *Oxon.* †Lectr.

**Physics**

- Rochester, G. D., MSc PhD, FRS, FIP Prof.  
Chalmers, J. A., MA PhD *Camb.*,  
3Sc *Lond.*, FIP Reader  
Prowse, W. A., TD, BSc PhD  
(Appl. Electr.) Reader  
Wolfendale, A. W., BSc PhD *Manc.*  
(Nuclear P.) Sr. Lectr.  
Corner, W. D., BSc PhD *Leeds* Lectr.  
Major, J. V., BSc *Manc.* Lectr.  
Hutchinson, W. C. A., BSc PhD Lectr.  
Apostolakis, A., BSc *Athens*, PhD *Manc.* Lectr.  
Ashton, F., BSc *Manc.*, PhD Lectr.  
..... Lectr.  
Williamson, E. Marjorie, MSc PhD *Lond.*  
Hon. Lectr.  
1 Res. Asst., 1 Nuffield Fellow

**Physics, Applied**

- Wright, D. A., DSc *Birm.* Prof.  
Woods, J., BSc PhD *Lond.* Lectr.  
Morant, M. J., BSc PhD *Lond.* Lectr.  
1 Res. Asst.

2 G

**Politics, see Soc. Studies****Psychology**

- Smith, F. V., MA *Syd.*, PhD *Lond.*,  
FBPsS Prof.  
Graham, D., MA BSc(Econ) *Lond.*,  
EdB *Glas.* Sr. Lectr.  
Howard, I. P., BSc *Manc.* Lectr.  
Hendry, D. P., MA *Edin.* Lectr.  
Baker, C., BA *Lond.*, MA *Liv.* Lectr.  
Hendry, Mrs. Louise S., BA *Ohio*,  
MSc *Yale* Res. Asst.  
Thomson, R., MA *Oxon.* †Lectr.  
Ramsay, S. G., BSc *Edin.* †Lectr.

**Russian**

- Harrison, W., BA *Camb.* Lectr.

**Social Studies**

- Morris-Jones, W. H., BSc(Econ) *Lond.*  
(Pol. Theory & Instns.) Prof.  
Allen, E., MA *Sheff.* (on leave) (Econ.) Reader  
Odber, A. J., BA *Manc.* Dir., Business Res. Unit  
Bromhead, P. A., MA DPhil *Oxon.*  
(Pol.) Sr. Lectr.  
Moos, S., MA Lectr.  
Byatt, I. C. R., BA *Oxon.* (Econ.) Lectr.  
Atkinson, G. C., MA *Manc.* (Pol.) Lectr.  
Blair, I., BL PhD *Edin.* (Law) Lectr.  
Cullingworth, J. B., BSc *Lond.*  
(Soc. Admin.) Lectr.  
Elkan, W., BSc(Econ) PhD *Lond.* (Econ.) Lectr.  
Rees, H., BA *Wales* (Econ.) Temp. Lectr.  
2 Res. Assts.

**Spanish**

- Brooks, J. L., BA *Dub.* Reader  
Cabañas, P., DUMadrid Lectr.  
Strong, E. B., BA *Manc.* Lectr.  
1 Lectr

**Theology**

- Turner, Canon H. E. W., MA DD *Oxon.*  
Van Mildert Prof.  
Evans, Rev. C. F., MA *Camb.* Lightfoot Prof.  
Anderson, Rev. G. W., MA *St.And. & Camb.*,  
DD *St.And.* (Old Test.) Prof.  
Barrett, Rev. C. K., MA DD *Camb.* Prof.  
Whitehouse, Rev. W. A., MA *Camb. & Oxon.*,  
BLitt *Oxon.*, DD *Edin.* Reader  
Cranfield, Rev. C. E. B., MA *Camb.* Lectr.  
Jones, Rev. D. R., MA *Oxon.* Lectr.  
Hooker, Morna D., MA *Brist.* Res. Fellow  
6 Lectrs.†

**Turkish, see Oriental Studies****Zoology**

- Cragg, J. B., MSc Prof.  
Ashby, K. R., MA *Camb.*, PhD *Sheff.* Lectr.  
Phillipson, J., BSc PhD Lectr.  
Wood, D. W., BSc *Lond.*, PhD *Glas.* Lectr.



## ENGLAND

Coulson, J. C., BSc PhD  
Davies, L., BSc *Wales*, PhD

Lectr.  
Lectr.

Dir. of Extra-Mural Studies : T. F. Daveney,  
BA *Lond.* Staff Tutors : D. S. Reid, MA  
PhD *St. And.* ; P. R. Kaim-Caudle, BSc  
(Econ) *Lond.* ; J. R. Till, MA *Oxon.* ; J. H.  
Benson, BA *Manc.* ; Margaret E. Bradshaw,  
BSc *Leeds* ; B. Dobson, BA PhD. Sec. of  
Northern District of W.E.A. : C. H. Hock-  
ing, BA.

### EXTRA-MURAL DEPARTMENT

104 Tutors employed, of whom 6 (named below)  
are on the staff of the Extra-Mural Dept. and  
48 are members of the Univ. Internal Staff.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Treasurer of the Durham Colls. : B.  
Cooke, BA *Lond.* Bldgs. Officer : Col. D. M.  
Eley. Asst. Secs. of the Durham Colls. : Beatrice

Hollingworth, BCom ; Jean M. Hodgson, BA  
*Lond.* Dep. Librarian : G. S. Darlow, MA *Camb.*

## THE COLLEGES

UNIVERSITY COLLEGE (for men). Founded 1833. Students live in Durham Castle and Lumley  
Castle, near Chester-le-Street. Students in residence (1959-60), 290. *Telephone* : Durham 2488.

Master—L. Slater, MA *Camb.* (*Hon. Lectr. Geog.*)

#### Vice-Master

Prowse, W. A., TD, BSc PhD (*U. Reader Phys.*)

#### Sr. Tutor

Thomson, R., MA *Oxon.* (*U. †Lectr. Psychol.*)

#### Bursar

Ramsay, S. G., BSc *Edin.* (*U. †Lectr. Psychol.*)

#### Tutors

Ashby, K. R., MA *Camb.*, PhD *Sheff.* (*U. Lectr. Zool.*)

Atkin, A. O. L., MA PhD *Camb.* (*U. Lectr. Maths.*)

Bott, M. H. P., MA PhD *Camb.* (*U. Lectr. Geol.*)

Dewdney, J. C., MA *Edin.* (*U. Lectr. Geog.*)

Emeleus, C. H., MSc *Belf.*, DPhil *Oxon.* (*U. Lectr. Geol.*)

Harriss, G. L., MA DPhil *Oxon.* (*U. Lectr. Hist.*)

Mossop, D. J., MA *Cape T.*, DUParis (*U. Lectr. French*)

Wilson, D. B., MA *Camb.*, DUParis (*U. Lectr. French*)

#### Lowe Librarian

Hall, A. T., MA *Leeds* (*U. Asst. Librarian*)

#### Chaplain

Griffith, Rev. G. G., MA

HATFIELD COLLEGE (for men). Founded 1846. Students in residence (1959-60), 240.  
*Telephone* : Durham 4261-2.

Master—T. Whitworth, MA DPhil *Oxon.* (*Hon. Lectr. Geol.*)

#### Vice-Master

Fisher, W. B., BA *Manc.*, DUParis, FRAI (*Prof. Geog.*)

#### Sr. Tutor

Sandys-Wood, A. L., BA *Brist.*, MA *Camb.*,  
BLitt *Oxon.* (*U. †Lectr. Anc. Hist.*)

#### Bursar

Hudleston, C. R., MA, FSA (*U. †Lectr. Palæog. & Diplomatic*)

#### Tutors

Byatt, I. C. R., BA *Oxon.* (*U. Lectr. Econ.*)

Clarke, J. I., MA PhD *Aberd.* (*U. Lectr. Geog.*)

Cox, G. F., BSc *Lond.*, PhD *R'dg.* (*Res. Fellow Chem.*)

Darlow, G. S., MA *Camb.*, FLA (*Dep. Librarian*)

Johnson, G. A. L., BSc PhD (*U. Lectr. Geol.*)

Kohnstam, G., BSc PhD *Lond.* (*U. Sr. Lectr. Chem.*)

Proudfoot, V. B., BA PhD *Belf.* (*U. Lectr. Geog.*)

#### Librarian

Doig, R. P., MA PhD *St. And.* (*Asst. Keeper, Palæog. & Diplomatic*)

#### Chaplain

Griffith, Rev. G. G., MA

GREY COLLEGE (for men). Founded 1959. The main block is still under constrcn. The coll. will ultimately house over 300 students. Students in residence (1959-60), 48. Telephone: Durham 4238.

Master—S. Holgate, MA PhD (*Hon. Lectr. Maths.*)

Sr. Tutor

Pennington, A., BSc *Manc.*, MEd (*U. †Lectr. Educn.*)

Bursar

Lowe, C. J., BA PhD *Lond.* (*U. †Lectr. Hist.*)

Tutors

Armitage, J. V., BSc PhD *Lond.* (*U. Lectr. Maths.*)

Hartop, B. B., MA BEd *Edin.* (*U. Lectr. Educn.*)

Wood, D. W., BSc *Lond.*, PhD *Glas.* (*U. Lectr. Zool.*)

ST. CHAD'S COLLEGE (for men). Founded 1904 primarily for the trg. of candidates for Holy Orders in the Church of England. Students in residence (1959-60), 57. Telephone: Durham 4681.

Principal—Rev. Canon T. S. Wetherall, MA *Oxon.*

Vice-Principal and Chaplain

Popplewell, Rev. D. L., MA *Oxon.*

Tutors

Collinge, N. E., MC, MA *Camb.* (*U. Sr. Lectr. Classics*)

Moir, Rev. J. H. M., MA *Oxon.*

ST. JOHN'S COLLEGE (for men). Founded 1909 primarily for the trg. of candidates for Holy Orders in the Church of England. Students in residence (1959-60), 163. Telephone: Durham 2306.

Principal—Rev. Canon J. P. Hickinbotham, MA *Oxon.*

Vice-Principal

Reeve, Rev. R. E., MA BD

Chaplain

Cockerton, Rev. J. C. P., MA

Tutors

Nixon, Rev. R. E. N., MA

Censor

Read, Rev. W. N., MA

BEDE COLLEGE (for men). Founded 1841. Training coll. under Ministry of Educn. recognized as a coll. of the Durham division of the univ. Univ. students in residence (1959-60), 64. Telephone: Durham 3447.

Principal—K. G. Collier, MA *Camb.*

Vice-Principal

Webster, D. E., BSc MEd

Lecturers

McDermott, Rev. R. P., MA *Dub.* (*Chaplain*)

Pearson, Rev. L. R., MA

Selby, E., MA

Hannah, J. B., MA

Powell, J. K.

Carrick, J., BSc

Hart, W., MA

Lishman, W., BSc

Tones, R. M., BSc

Smith, G. N. G., MA

Hughes, D. A. P.

Garnham, A., BSc

Knight, R. F., MA

Smith, R. F., PhD

ST. CUTHBERT'S SOCIETY (for men). Founded 1871. Body of non-collegiate men students. Students in residence (1959-60), 275. Telephone: Durham 2776.

Principal—J. J. Grant, CBE, MA EdB *Glas.*, Hon. DCL

Tutors

Blair, L., BL PhD *Edin.* (*U. Lectr. Law*)

Cunningham, J. S., BLitt *Oxon.*, BA (*U. Lectr. Engl.*)

Dawson, R. S., MA *Oxon.* (*U. Lectr. Chinese*)

Glockling, F., BSc PhD *Brist.* (*U. Lectr. Chem.*)

Hewitt, E. A., BA *Brist.*, MEd (*U. Lectr. Educn.*)

Holmes, C. W., MA (*U. Lectr. Geog.*)

- Hutchinson, W. C. A., BSc PhD (*U. Lectr. Phys.*)  
 Ivy, G. S., MA *Camb. & Prin.*, PhD *Lond. (U. Lectr. Engl.)*  
 Moos, S., MA (*U. Lectr. Econ.*)  
 Orton, G. (*U. Sr. Lectr. German*)  
 Phillips, R., BSc *Leeds*, FGS (*U. Lectr. Geol.*)
- Scammell, G. V., MA *Camb. (U. Lectr. Palæog. & Diplomatic)*  
 Shearer, H. M. M., BSc PhD *Glas. (U. Lectr. Chem.)*  
 Snape, M. G., MA *Camb. (Asst. Keeper, Palæog. & Diplomatic)*  
 Chaplain

ST. MARY'S COLLEGE (for women). Founded 1899. Students in residence (1959-60), 140.  
 Telephone: Durham 3533.

Principal—E. Marjorie Williamson, MSc PhD *Lond. (Hon. Lectr. Phys.)*

#### Tutors

- Ford, Josephine M., BA *Nott. (Sr. Tutor, U. †Lectr. Classics)*  
 Jenkinson, Edna M., BA PhD *Camb. (U. Lectr. Classics)*  
 Calvert, Florence I., MA *Sheff. (U. Lectr. Educn.)*  
 Offler, Mrs. Betty E., MA *Oxon.*  
 Tallentire, Mrs. Ethel M., BSc (*U. Lectr. Educn.*)

Chilton, Elsa, BA (*Sec.*)

Bursar  
 Klumper, H. Christina

Chaplain

ST. AIDAN'S SOCIETY (for women). Founded 1947. Body of non-collegiate women students.  
 Students in residence (1959-60), 95. Telephone: Durham 2470.

Principal—Ethleen M. Scott, MA *Lond. (Hon. Lectr. French)*

#### Vice-Principal

Taylor, Mrs. Mabel H., BA *W. Aust.*, MA *Oxon.*  
 (*U. †Lectr. Philos.*)

Laybourne, Mrs. Helen, MA *Oxon.*  
 Sladden, Elizabeth M., BA (*Sec.*)

#### Tutors

Bromhead, Mrs. Evelyn, MA  
 Chalklin, Kathleen M., MSc *Wales (U. Lectr. Bot.)*

Chaplain

## LICENSED HALLS OF RESIDENCE

(Training colls. under Ministry of Educn. licensed by the council of the Durham Colls. as places of residence for students reading for degrees in the Durham division of the univ.)

ST. HILD'S COLLEGE (for women). Founded 1858. Univ. students in residence (1959-60), 44.  
 Telephone: Durham 3491.

Principal—Nina M. E. Joachim, MA *Oxon.*

NEVILLE'S CROSS COLLEGE (for women). Founded 1921. Univ. students in residence (1959-60), 34.  
 Telephone: Durham 2325.

Principal—Mary Whitley, BA *Liv.*

## GENERAL INFORMATION

The univ. was founded in Durham in 1832 after two abortive attempts in earlier centuries. Halls of residence were opened and were later recog. as constituent colls. at various times during the course of the last hundred yrs. Women have been admitted to Durham since 1896 and non-collegiate students since 1871. Until 1946 all Durham

Colleges' students lived in coll., but post-war expansion has made this impossible, and approx. one-fifth of the total number live in licensed lodgings as members of St. Cuthbert's Soc. (men) or St. Aidan's Soc. (women). Teaching is organized centrally, and all colls. and socs. take students for all courses. St. Chad's and St. John's Colls.

are also recog. theol. colls. of the Church of England, and provide full postgrad. trg. for ordination candidates.

Various depts. of the division are now housed in different parts of the city, and a plan showing their position is publ. in the *Durham Colleges Handbook*.

INCOME (1958-59). £506,000.

**LIBRARY.** Contains more than 210,000 vols., incl. 199 incunabula and extensive collections of older books, notably on patristics and Engl. hist. 2 large sections, for sci. and oriental studies, the latter of which contains valuable sp. material, are separately housed.

**LABORATORIES.** Appl. phys., bot., chem., geol., phys., radiochem., zool. at South Rd.; psychol. at Kepier Terrace.

**OBSERVATORY.** Erected in 1841; equipped for work in astron., meteorol. and seismol.; library includes valuable collection of periodicals and other publicns. on these subjects.

**BUSINESS RESEARCH UNIT IN DEPT. OF SOCIAL STUDIES.** Establ. 1960 on exper. basis for 5 yrs. to investigate problems in field of industr. organization, with sp. reference to the N.E. region.

**GULBENKIAN MUSEUM FOR ORIENTAL ART AND ARCHÆOLOGY.** Opened 1960. Elvet Hill, Durham.

**ADMISSION.** Those wishing to read in the Durham Colls. for a degree (awarded by the Univ. of Durham) must satisfy the univ. matric. requirements (see Appendix II). Applicns. for admission should be made to the hd. of one of the colls., and not to the univ. office or to one of the depts.

The normal last day for the receipt of applicns. is Jan. 31.

**FIRST DEGREES** (of Univ. of Durham). Courses are provided for degrees of the Univ. of Durham as listed below. 3 yrs.—BA in gen. studies, BA in soc. studies, BA hons. (in classics, Engl., French, geog., German, hist., maths., music, oriental studies, philos., pol. & econ., psychol., Spanish, theol.), BSc in gen. studies (may be awarded with hons.), BSc hons. (in appl. phys., bot., chem., geog., geol., maths., phys., psychol., zool.).

No pt.-time courses.

**HIGHER DEGREES** (of Univ. of Durham). BD, DD, MA, MA(EconStudies), MLitt, MEd, DLitt, MSc, DSc, MMus, DMus, PhD. For details, see p. 892.

**DIPLOMAS.** Postgrad.: univ. dipls. in anthropol. (2 yrs.), Arabic (3 terms), biblical studies (3 terms), theol. (6 terms); univ. inst. of educn.'s dipl. in educn. (1 yr.).

**CERTIFICATE.** Univ. cert. in bibl. studies (3 terms).

**ALLIANCE.** Relationship with fac. of letters, Clermont-Ferrand, for annual exchange visits of members of staff, exchange of publicns., and possible provision of lecteurs and lectrices.

**STUDY LEAVE.** There is a scheme by which

members of staff may obtain sabbatical leave from time to time.

**FEES.** *Annual charges* (incl. tuition, bd. and lodging, and subs., but excl. non-recurrent registration fee of £1). University, Hatfield and Grey Colls.: caution money, £10; arts, £240; geog., maths. and psychol., £245; sci., £250. St. Chad's and St. John's: caution money, £5; arts, £247: 10s.; geog., maths. and psychol., £252: 10s.; sci., £257: 10s. St. Mary's: caution money, £10; arts, £240; geog., maths. and psychol., £245; sci., £250. Resident students of St. Cuthbert's Society pay: arts, £210; geog., maths. and psychol., £215; sci., £220. Resident students of St. Aidan's Society pay: caution money, £10; arts, £231; geog., maths. and psychol., £236; sci., £241. Some of these charges will be increased in Oct. 1961. For fees for matric., exams. and degrees, see under Univ. of Durham, above.

**AWARDS** open to students entering the Durham Colls. to read for a first degree. 10 Foundation scholps. or exhibitions are awarded by exam. each yr. The annual value of a scholp. is £70, and of an exhibition, £40. Other scholps. available are the Pears, £40; Pemberton, £40; Wansbrough, £50; Horsfall (3), £40; Christopher Mather, £40; Organ (2, one each in Univ. C. and Hatfield C.), £40 each; Winifred Foster, £40; Ellerton, £40; Winchester, £40; Hatfield, £40; Harris, £40. All may qualify for supplementation by the Ministry of Educn.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**GRADUATES' ASSOCIATIONS.** All the colls. in Durham have old students' assocns. under various titles. Further information may be obtained from the sec. of the assocn. at the coll. concerned.

**STUDENT RESIDENCES.** All the colls. provide residential accomm. in coll. In addition, accomm. is available for 30 men students of St. Cuthbert's Soc. in the soc.'s premises in South Bailey; and for 46 women students of St. Aidan's Soc. in the soc.'s premises in North Bailey and at Shincliffe Hall.

**STUDENTS' SOCIETIES, CLUBS, ETC.** The Durham Colls. students' representative council sponsor a considerable no. of socs. and clubs covering a wide field of activities. The Durham Union Soc. (for men) and the Durham Women's Union Soc. organize debates and lectures by outside speakers and provide club facilities.

**STUDENTS' ATHLETIC FACILITIES.** Two groups of sports grounds are available for outdoor activity, and every coll. has its own boat-house.

**PUBLICATIONS.** *Warden's Report*; *Durham Colleges Handbook* (Sept.); *The New Durham* (students); *Palatinate* (students' newspaper).

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Approaching completion*: phase II of Grey Coll.; chem. & geol. bldg.; appl. phys. bldg.

RETIREMENT. Rev. Canon G. E. Brigstocke (principal, Bede Coll.).

RESIGNATIONS. Prof. W. H. F. Barnes (philos.), apptd. prof. moral philos., Edin.; H. J. Boyden (extra-mural), elected M.P.; J. Harrison (philos.), apptd. lectr., Edin.; S. Holgate (sec.), apptd. master, Grey Coll.; Miss H. M. Hudson (Engl.), apptd. tutor to women students, King's Coll., London; A. Pennington (educn.), apptd. lectr., King's College, Newcastle; W. W. Taylor (extra-mural), apptd. H.M.I.

DEATHS. Miss E. C. Christopher (principal, St. Hild's Coll., 1910-33); Rev. Canon C. S. Wallis (principal, St. John's Coll., 1919-45).

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1147	86
Women . . .	316	25
Total . . .	1463	111

Distribution by Faculties. *Arts*, 834; *educn.*, 185\*; *sci.*, 462; *theol.*, 93. Total: 1574.

*Included in the figures above are* :—

Postgraduate students, 350.\*

New admissions, 452.

Students from other countries, 50. (Countries from which largest numbers came: U.S.A., 6; Sierra Leone, 5; Germany, 3; Libya, 3).

DEGREES AWARDED (by Univ. of Durham) (1958-59). *Arts*: MA, 10; MA(Econ), 1; PhD, 1; MLitt, 3; BA (hons.), 155; BA, 98. *Educn.*, MEd, 2. *Sci.*: MSc, 2; PhD, 14; BSc (hons.), 93; BSc, 25. Total number of first degrees awarded, 371.

DIPLOMAS AWARDED (by Univ. of Durham) (1958-59). DipEd, 89; DipTheol, 13.

[Information compiled as at 24/8/60]

## KING'S COLLEGE, NEWCASTLE UPON TYNE

Founded 1937 by amalgamation of the University of Durham College of Medicine (1834) and Armstrong College (1871)

Postal Address: Newcastle upon Tyne 1, England

Telephones: College—Newcastle upon Tyne 28511

Sutherland Dental School—Newcastle upon Tyne 24176

CHAIRMAN OF COUNCIL—The Rt. Hon. THE VISCOUNT RIDLEY, CBE, DCL

RECTOR—C. I. C. BOSANQUET, MA *Oxon.* & *Camb.*, Hon. DCL (Vice-Chancellor of the University§)

SUB-RECTOR—Professor G. H. J. DAYSH, BLitt *Oxon.*

DEAN OF MEDICINE—Professor A. G. R. LOWDON, OBE, MA MB ChB *Edin.*, FRCSEd, FRCS

REGISTRAR—.....

BURBAR—H. J. M. SCOTT, MBE, BCom

LIBRARIAN—W. S. MITCHELL, MA *Edin.*, PhD *Aberd.*

\* Includes 74 MEd candidates, registered and studying in both Durham and Newcastle divisions.  
§ See footnote to p. 891.

## TEACHING STAFF

[†=Part-Time]

**Accounting**

Nolan, F. E. V., MA, FCA

Lectr.

**Agriculture**, see below**Anatomy**, see Medicine**Anthropology**

Meinhard, H. H., DrPhil Bonn, FRAI

Reader

Sheddick, V. G. J., BA Wales, PhD Lond.

Lectr.

Powell, H. A., PhD Lond., FRAI

Lectr.

**Archæology**, see Classics**Architecture**

Napper, J. H., MA DipTP, FRIBA

Prof.

Allsopp, H. B., BArch DipCD Liv.,  
FRIBA

Sr. Lectr.

Turley, R., MA

Lectr.

Spence, C. C., BA

Lectr.

Williamson, W. H., MA CertArch

Lectr.

Wharfe, H., MA DipArch DipT&amp;CP Leeds

Lectr.

Chalk, D. W., DipArch CertTP Manc.

Lectr.

Wood, H. S., MA DipArch DipT&amp;CP Edin.

Lectr.

Wise, D., BArch DipTP

Lectr.

Brown, H. F., MC, FRIBA

Temp. Lectr.

Moody, F. A.

†Dir. of Evening Sch.

Rowe, A. H.

Res. Fellow

**Bacteriology**, see Medicine**Botany**, see also Agriculture, below

Burnett, J. H., MA DPhil Oxon.

Prof.

Ranson, S. L., BSc PhD (Plant Physiol.)

Reader

Clark, W. A., BSc PhD St.And.

Sr. Lectr.

Fothergill, P. G., BSc PhD

Sr. Lectr.

Richardson, J. A., MSc PhD

Lectr.

Moss, Betty L., MSc PhD Lond.

Lectr.

Walker, T. G., BSc PhD Leeds

Lectr.

Elliott, Patricia, BSc

Wilfred Hall Fellow

**Chemistry**, see also Agriculture, below

Wynne-Jones, W. F. K., BSc Oxon., DSc Wales,

FRIC

Prof., Hd. of Dept.

Baddiley, J., DSc PhD Manc.

(Org. C.) Prof.

Weiss, J., DEng Vienna, PhD Lond.

(Radiation C.) Prof.

Thirsk, H. R., BSc PhD Lond., FRIC

(Electrochem.) Reader

Raper, R., MA PhD Camb., FRIC

Sr. Lectr.

Aynsley, Rev. E. E., MSc PhD DThPT,

FRIC

Sr. Lectr.

Swan, G. A., DSc PhD, FRIC

Sr. Lectr.

McQuillin, F. J., MA DPhil Oxon.

Sr. Lectr.

Dodd, R. E., MA BSc Oxon., FRIC

Lectr.

Holden, D., MSc PhD Manc.

Lectr.

Stadler, H. P., BSc Lond., PhD Leeds

(Phys. C.) Lectr.

Trenwith, A. B., BSc PhD Lond.

Lectr.

Buchanan, J. G., MA PhD Camb.

Lectr.

Beck, W. H., BSc St.And.

Lectr.

Oldham, K. B., BSc PhD Manc.

Lectr.

Fleischmann, M., BSc PhD Lond.

Lectr.

Littlewood, A. B., BA Oxon.

Lectr.

Covington, A. K., BSc R'dg., PhD

Lectr.

Scholes, G., BSc PhD

Lectr.

Hughes, N. A., BA PhD Camb.

Lectr.

Jones, P., MA BSc Oxon., PhD

Lectr.

Hazell, A. C., BSc Brist.

British Titan Products Fellow

Archibald, A. R., BSc PhD Edin.

Frank Schon Fellow

Armstrong, J. J., BSc

Salters' Fellow

Hardy, F. E., BSc

I.C.I. Fellow

Bewick, A., BSc

D.S.I.R. Fellow

Miller, R. E., BSc PhD

Res. Fellow

Rajbhandary, U. L., MSc Calc.

Res. Fellow

Briggs, G. W. D., BSc PhD (Phys. C.)

(Phys. C.) Res. Asst.

Dickinson, T., BSc PhD (Phys. C.)

(Phys. C.) Res. Asst.

Blumsom, N. L., MSc Sheff.

(Org. C.) Res. Asst.

Johnson, G. R. A., BSc PhD

(Rad. C.) Res. Asst.

Bone, S. J., BSc Panj., PhD

Sr. Demr.

Kelemen, Marianne V., DPhil Oxon., BSc

Sr. Demr.

Liler, Milica, DrTechScs Belgrade

Sr. Demr.

**Child Health**, see Medicine**Classics and Ancient History**

Fletcher, G. B. A., MA Camb.

(Latin) Prof., Hd. of Dept.

Hudson-Williams, H. L., BA Wales,

MA Camb.

(Gk.) Prof.

Gillam, J. P., MA, FSA

(Roman-Brit. Archæol.) Reader

Whittick, G. C., MA Oxon.

Sr. Lectr.

Shefton, B. B., MA Oxon.

(Gk. Archæol. &amp; Anc. Hist.) Sr. Lectr.

Sims, B. J., MA Camb.

Lectr.

Garton, C., MA Camb.

Lectr.

Longman, G. A., MA Oxon.

Lectr.

Parker, Laetitia P. E., MA Camb.

Lectr.

Lazenby, J. F., MA Oxon.

(Anc. Hist.) Lectr.

Hereward, Daphne, MA Oxon.

Sir James Knott Fellow

Daniels, C. M., BA

Sir James Knott Fellow

**Coke Research**

Marsh, H., BSc PhD

Asst. Chemist

Harker, H., BSc PhD

Asst. Chemist

**Dental Surgery**, see below

**Divinity**

Boobyer, G. H., BA *Brist.*, BA BD *Lond.*,  
DTh *Heidel.* Sr. Lectr., Hd. of Dept.  
Vermes, G., DTheol LicensHist&PhilolOr  
*Louvain* Lectr.

**Economics and Social Studies, see also  
Accounting**

Jack, D. T., CBE, MA Hon. LLD *Glas.*,  
JP David Dale Prof.  
Petch, G. A., BCom *Leeds* Sr. Lectr.  
Watkin, E. E., MA *Wales* Sr. Lectr.  
Lloyd, Alice K., MA *Oxon.*, JP  
(Soc. Studies) Lectr.  
MacLeod, K. D., MA LLB *Glas.*  
(Soc. Studies) Lectr.  
Smith, F. M., BA *Oxon.* & *Mt.All.*  
(Soc. Studies) †Lectr.  
Watson, Angelica, MA *Aberd.*  
(Appl. Soc. Studies) Lectr.  
Airth, A. D., BA Lectr.  
Zawadzki, K. K., MA *St.And.*,  
MSc(Econ) *Lond.* Lectr.

**Education**

Tuck, J. P., MA *Camb.* Prof.  
McKenzie, A. W., BSc Sr. Lectr.  
Dobson, J. L., MA Med PhD Sr. Lectr.  
Haslewood, Mrs. Doreen C., MA Lectr.  
Hockey, S. L., MA *Brist.* (on leave) Lectr.  
Morley, Muriel E., DSc (Speech) †Lectr.  
Mittins, W. H., BA *Lond.* Lectr.  
Smith, I. M., MA BSc EdB *Glas.*,  
PhD *Manc.* (on leave) Lectr.  
Rockett, K., MA *Manc.* Lectr.  
Calvert, J. S., BA *Birm.* Lectr.  
Hindmarsh, Irene, MA *Oxon.* Lectr.  
Andison, A. C., MA *Oxon.* Lectr.  
Pennington, A., BSc *Manc.*, MEd Lectr.  
Brown, A. Lectr.  
McCabe, J. J. C., BSc MEd Temp. Lectr.  
Pearson, Mrs. Doreen, MA †Temp. Lectr.  
Hill, A., MSc †Temp. Lectr.  
Taylor, L. T., TD, MSc †Temp. Lectr.

**Engineering, Chemical**

Coulson, J. M., MA *Camb.*, PhD *Lond.* Prof.  
Patterson, W. S., DSc *Lond.*, MSc *Leeds*,  
FRIC (Fuel Sci.) Reader  
Thornton, J. D., BSc PhD *Birm.*, FRIC Reader  
Goodridge, F., BSc PhD *Lond.* Lectr.  
Cave, A. P., BSc *Brist.*, PhD *Lond.* Lectr.  
Murray, H. D., BSc *Glas.* Lectr.  
Plimley, R. E., BSc *Leeds* Res. Asst.

**Engineering, Civil**

Cassie, W. F., PhD *St.And.*, MS *Ill.* Prof.  
Isaac, P. C. G., BSc(Eng) *Lond.*, SM *Harv.*  
(Pub. Health Engin.) Reader  
Williams, T. E. H., MSc *Wales*, PhD  
(Highway & Traffic Engin.) Rees  
Jeffreys Reader

Cooper, D. W., BSc(Eng) *Lond.*

(Struct. Engin.) Sr. Lectr.  
(Hydraulics & Hydrol.) Lectr.  
Geddes, J. D., BSc PhD  
(Civil Engin. Materials) Lectr.  
Wright, J., MSc (Struct. Engin.) Lectr.  
Simpson, J. R., BSc (Pub. Health Engin.) Lectr.  
James, A., BSc (Pub. Health Engin.) Res. Asst.  
Allen, J. H. (Pub. Health Engin.) Res. Asst.

**Engineering, Electrical**

Russell, R. L., DSc *Leeds*, FIP Prof.  
Ritson, F. J. U., MSc Reader  
Walley, C. A., BScTech PhD *Manc.* Sr. Lectr.  
Livingston, E. A., MSc Lectr.  
Short, P., MSc(Eng) *Lond.* Lectr.  
Carter, A. O., MEng *Liv.* Lectr.  
Kennair, J. T., BSc Lectr.  
Holt, A. G. J., DipEl PhD *S'ton.* Lectr.  
Dineley, J. L., MScTech *Manc.* Lectr.

**Engineering, Mechanical and Marine,  
see also Naval Archit.**

Burshall, A. F., MSc *Birm.*, PhD *Camb.*,  
DSc *Melb.*, Hon. DSc *N.U.I.*, MIMechE  
Prof., Dir. of Stephenson Engin. Labs  
Chambers, G. H., DSC, MSc, MIMechE  
(Marine Engin.) Prof.  
Bayley, F. J., MSc PhD (Gas Dynamics) Reader  
Talbot, A. C., MSc *Birm.* Sr. Lectr.  
Robinson, F., BSc(Eng) *Lond.*, MIMechE  
Sr. Lectr.  
Gilchrist, A., BSc Sr. Lectr.  
Sutton, B. A., MA *Camb.* Sr. Lectr.  
Jones, A. W., BSc, MIMechE  
(Marine Engin.) Sr. Lectr.  
Beeley, E. W., MScTech *Manc.* Lectr.  
Owen, B. S., MA *Camb.* Lectr.  
Bartley, A. J., BSc Lectr.  
Walker, G., BSc Lectr.  
Linge, J. R. Lectr.  
Porter, B., BA *Camb.* Lectr.  
Walker, L. A., BSc *Lond.*, PhD *Nott.* Lectr.  
Billett, R. A., BSc Temp. Lectr.

**Engineering, Mining**

Potts, E. L. J., MSc Milburn Prof.  
Jenkins, J. D., MSc *Wales* Reader  
Robinson, H. Y., MSc Sr. Lectr.  
Pearson, G. M., BSc Lectr.  
Bell, W. B., BSc Lectr.  
Tomlin, N., BSc Lectr.  
Edwards, D. B., BSc PhD Temp. Res. Asst.

**English Language and Literature**

Ure, P., MA *Liv.* Joseph Cowen Prof.  
Macdonald, A., MA PhD *Edin.* Sr. Lectr.  
Maxwell, J. C., MA *Oxon.* Sr. Lectr.  
Strang, Mrs. Barbara M. H., MA *Lond.* Lectr.  
Gang, T. N., BLitt MA *Oxon.* Lectr.  
Rawson, C. J., MA BLitt *Oxon.* Lectr.

**Fine Art**

- Rowntree, K. Prof., Dir. of Sch.  
 Evetts, L. C., MA Sr. Lectr., (Design) Hd. of Evening Sch.  
 McCheyne, J. R. M., DiplArt *Edin.*, MA (Sculpture) Sr. Lectr.  
 Pasmore, V., CBE, MA (Painting) Sr. Lectr., Master  
 Dalby, Helen A. (Textile Des.) Lectr.  
 Dudley, G. M. (Sculpture) Lectr.  
 Brown, Betty E. (Art Educn.) Lectr.  
 Wall, G., BA (Art Educn.) Temp. Lectr.  
 Holland, R. B., MA (Hist. of Art) Lectr.  
 Hamilton, R. W. (Decorative Des.) Lectr.  
 Davy, R. A., BA *Lond.* (Hist. of Art) Lectr.  
 Dobson, E. J., BA (Painting) Lectr.  
 Hodgson, Louisa, MA (Technical Method) †Teacher

**French**

- Cohn, N., MA *Oxon.*, DLitt *Glas.* Prof.  
 Delacourcelle, Mrs. Doris W., MA *Camb.*, LèsL *DUPoitiers* Sr. Lectr.  
 Suckling, N. C., MA *Oxon.*, BA *Lond.* Sr. Lectr.  
 Hope, T. E., DSC, MA *Oxon.* Lectr.  
 Dubois, Mrs. Elfrieda T., MA *Birm.*, DrPhil *Vienna* Lectr.  
 Mason, H. T., BA *Wales*, AM *Vermont*, DPhil *Oxon.* Lectr.  
 Chevallier, Denise, LèsL Dipl'd'ÉtSup *Paris* Lectrice

**Geography**

- Daysh, G. H. J., BLitt *Oxon.* Prof.  
 Conzen, M. R. G., MA Dip'TP *Manc.* Sr. Lectr.  
 House, J. W., MA *Oxon.* Sr. Lectr.  
 Anson, W. W., BSc Lectr.  
 Fullerton, B., MA *Lond.* Lectr.  
 Sharp, J. I., MA *Camb.* (Geog. & Surveying) Lectr.  
 Lister, H., PhD *Camb.*, BSc (Polar Studies) Lectr.

**Geology**

- Westoll, T. S., DSc *Aberd.*, BSc PhD, FRS, FGS J. B. Simpson Prof.  
 Shirley, J., DSc *Manc.*, FGS Sr. Lectr.  
 Robson, D. A., MSc PhD, FGS Sr. Lectr.  
 Randall, B. A. O., BSc PhD, FGS Lectr.  
 Walker, A. D., BSc *Brist.*, PhD, FGS Lectr.  
 Battey, M. H., MSc *N.Z.*, PhD *Camb.*, FGS Lectr.  
 Dearman, W. R., BSc PhD *Lond.*, FGS Lectr.  
 Murchison, D. G., BSc PhD, FGS Lectr.  
 Jones, J. M., MSc, FGS Res. Asst.

**German and Scandinavian Studies**

- Mennie, D. M., MA *Aberd.*, DrPhil *Kiel* Prof.  
 Sinclair, R. F., MA *Edin.* Lectr.  
 McFarlane, J. W., MA BLitt *Oxon.* Lectr.  
 Ward, A., BA Lectr.  
 Jensen, N. L., CandMag *Copenhagen*, MA (Danish) Lectr.  
 Buck, Marlies (German) Lector  
 Methlagl, W. (German) Lector

- Markland, Margareta, FilMag *Stockholm* (Swedish) Temp. Lectr.  
 Lunden, T. I., CandPhilol&MagArt *Oslo* (Norwegian) Temp. Lectr.

**History, Ancient, see Classics****History, Modern**

- Burn, W. L., MA *Oxon.*, JP Prof.  
 Tomkeieff, Mrs. Olive G., MA LLB *Camb.*, BA *Lond.*, FRHistS Lectr.  
 Taylor, Mrs. Joan M., BA *Lond.* Lectr.  
 Beckingsale, B. W., MA *Camb.* Lectr.  
 Jones, J. R., MA PhD *Camb.* Lectr.  
 McCord, N., BA PhD *Camb.* Lectr.  
 Fawcett, Mrs. Elizabeth C. H., BA *Manc.* †Temp. Lectr.  
 Harbottle, Barbara, BA *Camb.* Earl Grey Memorial Fellow

**Law**

- Elliott, D. W., LLB Prof.  
 Johnson, E. I., MA LLB *Camb.* Sr. Lectr.  
 Heath, E. J., MA BCL *Oxon.* Lectr.  
 Clark, J. B., MA LLB *Camb.* Lectr.  
 Cato, B. H., MA *Oxon.*, LLB *Lond.* †Lectr.  
 Chadwin, J. A., MA *Glas.*, BA *Oxon.*, LLB *Lond.* †Lectr.

**Mathematics**

- Green, A. E., MA PhD ScD *Camb.*, FRS (Appl. M.) Prof.  
 Bonsall, F. F., MA *Oxon.* (Pure M.) Prof.  
 Gilbert, C., BSc PhD *Lond.* (Appl. M.) Reader  
 Weston, J. D., BSc(Eng) BSc PhD *Lond.* (M. Analysis) Reader  
 Craggs, J. W., BSc *Manc.*, PhD *Manc.* & *Camb.* (Appl. M.) Reader  
 Goldie, A. W., MA *Camb.* (on leave) (Algebra) Reader  
 Mitchell, K., BA PhD *Camb.* Sr. Lectr.  
 Wilkes, E. W., MA BSc *Oxon.* Lectr.  
 Wassermann, G. D., BSc PhD *Lond.* Lectr.  
 Evans, D. A., BSc *Birm.*, PhD *Camb.* (Stats.) Lectr.  
 Harrop, R., MA PhD *Camb.* Lectr.  
 Chadwick, Mrs. Mary, BSc *Liv.* Lectr.  
 Reiter, H., MA PhD *Rice* Lectr.  
 Ringrose, J. R., BSc *Lond.*, MA PhD *Camb.* Lectr.  
 Collins, W. D., BSc PhD *Lond.* Lectr.  
 Eason, G., MSc PhD *Birm.* Lectr.  
 du Plessis, N., MSc *Rand*, PhD *Camb.* Lectr.  
 Edwards, D. A., MA DPhil *Oxon.* Lectr.  
 Carter, R. W., BA *Camb.* Lectr.  
 Lennox, S. C., PhD *Edin.*, MSc Lectr.

**Metallurgy**

- Petch, N. J., BSc PhD *Lond.*, DMet *Sheff.* William Cochrane Prof.  
 Parkins, R. N., BSc PhD Reader  
 Tylecote, R. F., MA *Camb.*, MSc *Manc.*, PhD *Lond.*, FIM Sr. Lectr.  
 Gilchrist, J. D., BSc PhD *Glas.* Lectr.



Thorley, N., BSc PhD *Leeds*, FIP  
(Metal Phys.) Lectr.  
Maxwell, D., MA *Camb.* Lectr.  
Hardie, D., BSc PhD Lectr.  
Meakin, J. D., BSc PhD *Leeds*  
I.C.I. Res. Fellow

**Music**

Burns, C., MA MusB *Camb.*, MusDoc *Edin.*,  
FRAM  
Sr. Lectr., Dir. of Dept. in Newcastle  
Hudson, F., DMus, FRCO Lectr.  
Barlow, D. F., MA MusB *Camb.* Lectr.

**Naval Architecture and Shipbuilding**

Burrill, L. C., MSc PhD  
Prof., Dir. of Res. Labs.  
Emerson, A., MSc (Ship Hydrodynamics) Reader  
Muckle, W., MSc PhD Reader  
Munro-Smith, R., MSc Sr. Lectr.  
Townsin, R. L., BSc PhD Lectr.  
Chilton, M., BSc Lectr.  
Robson, W., BSc(Eng) *Lond.* Res. Asst.  
Leathard, F. I. Res. Asst.  
Mars, G. P. Res. Asst.  
Glover, E. J., BSc Res. Asst.

**Philosophy, Mental and Moral**

Britton, K. W., MA *Camb.*, AM *Harv.* Prof.  
Midgley, G. C. J., MA BPhil *Oxon.* Lectr.  
Strang, C., MA BPhil *Oxon.* Lectr.

**Physics**

Runcorn, S. K., MA *Camb.*, PhD *Manc.*,  
FIP Prof., Dir. of Dept.  
Rushbrooke, G. S., MA PhD *Camb.*  
(Theoret. P.) Prof.  
Schneider, E. E., DrPhilNat *Freib.*, FIP  
(Solid State P.) Reader  
Darbyshire, O., MSc *Manc.*, FIP Sr. Lectr.  
Roscoe, R., BSc PhD *Lond.*, FIP Sr. Lectr.  
Bolton, H. C., BSc PhD *Lond.* Sr. Lectr.  
Littlefield, T. A., BSc PhD Sr. Lectr.  
Thorley, N., BSc PhD *Leeds*, FIP Sr. Lectr.  
Lowes, F. J., BSc PhD *Manc.* Lectr.  
Parry, J. H., MA *Oxon.*, PhD *Camb.*,  
FGS Lectr.  
Creer, K. M., MA PhD *Camb.* Lectr.  
Hide, R., BSc *Manc.*, PhD *Camb.* Lectr.  
Tozer, D. C., BSc *Brist.*, PhD *Camb.* Lectr.  
Roberts, P. H., MA PhD *Camb.* Lectr.  
Gurney, I. D. C., MA PhD *Camb.* Lectr.  
Wood, P. J., BSc *Lond.*, PhD Lectr.  
Molyneux, L., BSc PhD (Electronics) Lectr.  
Thomas, E. R., OBE, MA *Camb.*,  
MSc *Wales*, DCL †Hon. Lectr.  
Nairn, A. E. M., PhD *Glas.*, BSc, FGS  
Turner & Newall Fellow  
Brown, A. E., BSc *Birm.*, PhD I.C.I. Fellow  
Hill, R. M., MSc *Camb.* Sr. Demr.  
Lancaster, G., BSc Sr. Demr.  
Bansigir, K. G., MSc PhD *Osm.* Sr. Demr.

**Physiology**, see Medicine, below

**Politics**

Brown, J. M., MA *Glas.* Reader  
Hughes, E. W., BLitt MA *Oxon.* Lectr.

**Psychology**

Smith, F. V., MA *Syd.*, PhD *Lond.*,  
FBPSS Prof.  
Russell, D. C., BA *Lond.*, AM *Harv.* Lectr.  
Graham, D., BSc(Econ) *Lond.*, EdB *Glas.*,  
MA *St.And.* †Visiting Lectr.  
Howard, I. P., BSc *Manc.* †Visiting Lectr.  
Sluckin, W., BSc BSc(Eng) PhD *Lond.*  
†Visiting Lectr.  
Thomson, R., MA *Oxon.* †Visiting Lectr.  
Hendry, D. P., MA *Edin.*, PhD *Yale*  
†Visiting Lectr.

**Spanish**

Reid, K. S., BA *Durh. & Lond.*, PhD Reader  
Blair, Mrs. Jessie M., MA *Edin.* Lectr.  
Taylor, A. L., BA *Sheff.* Lectr.  
Shergold, N. D., MA PhD *Camb.* Lectr.  
Martínez Lacalle, Guadalupe, LizenFil&Let  
*Madrid* Lectora

**Speech**, see Educn. and Child Health

**Surveying**

Fryer, D. H., OBE, MSc Reader  
Sharp, J. I., MA *Camb.* (Geog. & Surv.) Lectr.

**Town and Country Planning**

Allen, J. S., BArch *Liv.*, FRIBA Prof.  
Hackett, B., MA  
(on leave) (Landscape Archit.) Sr. Lectr.  
Riley, C. F., MA DipArch DipTP *Manc.* Sr. Lectr.  
Spooner, P., DipArch *Syd.*, DipLD  
(Landscape Archit.) Temp. Sr. Lectr.  
Taylor, P., DipArch DipCD *Liv.* Lectr.  
Thomas, D. L., MA Lectr.  
Sutherland, A. C., BSc DipArch *Glas.* Lectr.  
Roberts, Mrs. Nora, BArch *Liv.* †Lectr.  
Buckley, R. M. †Lectr.  
Forsyth, A. R., DipTP †Lectr.  
Shill, O. W. †Lectr.  
Cato, B. H., MA *Oxon.*, LLB *Lond.* †Lectr.  
Dunn, J. F. †Lectr.

**Zoology**

Hobson, A. D., MA *Camb.*  
Prof., Dir. of Dove Marine Lab.  
Bull, H. O., DSc *Lond.*  
(Marine Biol.) Reader, Dep. Dir.,  
Marine Lab.  
Burt, E. T., MA PhD *Camb.* (Entomol.) Reader  
Ellenby, C., DSc PhD *Lond.* (Plant Nematol.) Reader  
Philip, Anna U., DrPhil *Berl.*, MSc Lectr.  
Shaw, J., MA *Camb.* Lectr.  
Philipson, G. N., BSc PhD Lectr.  
Percy, Lord Richard C., BSc Lectr.

Panchen, A. L., MA PhD *Camb.* Lectr.  
 Allen, J. A., BSc PhD *Lond.* Lectr., Zoologist  
 Buchanan, J. B., BSc *Aberd.*, PhD *Lond.* Lectr., Zoologist  
 Evans, F., BSc *Lond.* Lectr., Zoologist  
 Stobbart, R. H., BSc PhD *Brist.* Sr. Demr.  
 Sutcliffe, D. W., BSc PhD D.S.I.R. Fellow

## AGRICULTURE AND RURAL ECONOMY

### Agricultural Botany

Jones, M., MSc *Wales* Prof.  
 Clark, Mrs. Helena H., MSc Lectr.  
 Blackburn, F., BSc (on leave) Temp. Lectr.  
 Holden, J. H. W., BSc *Wales* Lectr.

### Agricultural Chemistry

Thomas, B., MSc, FRIC Reader  
 Crompton, E., MSc *Manc.* (Soil Sci.) Reader  
 Hunter, F., BSc Sr. Lectr.  
 Thompson, A., MSc MS, FRIC Lectr.  
 Pringle, Joyce, BSc(Agr) PhD *Aberd.* (Soil Phys.) Lectr.  
 Seeley, R. C., MSc *Lond.* (Agric. Biochem.) Lectr.

### Agricultural Economics

Carpenter, E. M., MA *Oxon.* Sr. Lectr., Actg. Hd. of Dept.  
 Blake, J. G., BA Lectr.  
 Brayshaw, G. H., MA *Camb.* Lectr.  
 Lord, R. F., BSc(Agric) *Lond.* Lectr.  
 Winter, T., DipAgric Lectr.  
 Tansey, A. W., BSc(Agric) *Lond.* Lectr.  
 Robson, S., BSc Lectr.  
 Weeks, W. G. R., BSc Lectr.  
 Dent, Katharine, BSc Asst. Lectr.

### Agricultural Engineering

Fail, H., BSc Sr. Lectr., Hd. of Dept.  
 Reece, A. R., MSc(AgricEng) Lectr.  
 Payne, P. C. J., BSc(Agr) PhD *R'dg.*,  
 • MSc(AgrEng) (Farm Mech.) Lectr.

### Agricultural Entomology

Harrison, G. H., BSc PhD Lectr.  
 Ibbotson, A., BSc *Birm.*, DIC, DipAgricSc *Camb.* Lectr.

### Agriculture

Cooper, M. M., BAgSc *N.Z.*, BLitt Prof.  
 DipRurEcon *Oxon.* Prof.  
 Williams, W. Prof.  
 Main, A., BSc (Est. Management) Sr. Lectr.  
 Mitchell, T. M. (Anat. & Physiol. of Farm Animals) ↑Lectr.  
 Richard, M., BSc(Agr) *R'dg.* Lectr.  
 Merridew, J. N., BSc(Agric) *Wales*, MSc Lectr., Dir., Coll. Farm at Nafferton  
 MacLusky, D. S., BSc *Leeds*, PhD *Glas.* Lectr., Asst. Dir., Coll. Farm at Nafferton

## DENTAL SURGERY

Hallett, G. E. M., MDS, FDSRCS Dean, Dir. of Dental Studies  
 ..... Prof., Sub-Dean

### Children's Dentistry

Hallett, G. E. M., MDS, FDSRCS Prof.  
 Weyman, Joan, BDS, FDSRCS Lectr.  
 Porteous, J. R., BDS Lectr.

### Dental Anaesthetics

Pask, E. A., OBE, MA MD BChir *Camb.*, FFARCS Prof.

### Dental Electrotherapeutics

Chalmers, J., MBE, FDSRCS, JP ↑Lectr.

### Dental Jurisprudence and Practice Management

Lectr.

### Dental Pharmacology

Walton, J. G., BDS Lectr.  
 Kay, L. W., FDSRCS Lectr.

### Dental Prosthetics and Mechanics

Mack, A. O., MDS (Dental P.) Prof.  
 Farrell, J. H., MDS Sr. Lectr.  
 McMillan, D. R., FDSRCS Lectr.

### Dental Radiology

Lectr.

### Diseases of the Ear, Nose and Throat

Black, J. I. M., MD MS, FRCS Lectr.

### Medicine

Smart, G. A., BSc MD, FRCP Prof.  
 Kellett, C. E., MA MD BChir *Camb.*, FRCP Lectr.  
 Jackson, F. S., BA MB BChir *Camb.*, MRCP ↑Clin. Teacher  
 Richardson, G. O., MA MD BChir *Camb.*, FRCP ↑Clin. Teacher  
 Strang, C., MD BS, MRCP ↑Clin. Teacher

### Operative Dental Surgery

Lovel, R. W., DDS *Northwestern*, MDS, FDSRCS Prof.  
 Allan, D. N., DDS *Northwestern*, MDS Sr. Lectr.  
 Howell, R. A., FDSRCS Lectr.  
 Walton, J. G., BDS Lectr.

### Oral Anatomy

Tonge, C. H., TD, MB BS BDS DDDSc Reader  
 Snell, R. S., MB BS PhD *Lond.* Lectr.

### Oral Physiology

Jenkins, G. N., MSc *Liv.*, PhD *Camb.* Reader

**Oral Surgery**

Howe, G. L., FDSRCS  
 Kay, L. W., FDSRCS

**Orthodontics**

Hallett, Prof. G. E. M., MDS, FDSRCS Lectr.  
 Littlefield, W. H., BDS, FDSRCS Lectr.  
 Burke, P. H., BDS Lectr.

**Pathology (Dental School)**

Rannie, I., BSc MD ChB *Glas.* Prof.  
 Simpson, H. E., MDS (Oral Pathol.) Sr. Lectr.  
 Jackson, D., BDS Lectr.

**Periodontal Diseases**

Howell, R. A., FDSRCS Lectr.

**Properties of Dental Materials**

Farrell, J. H. (see D. Prosthetics) Lectr.

**Public Dentistry**

Robinson, A. E., FDSRCS Lectr.

**Surgery**

Lowdon, A. G. R., OBE, MA MB ChB *Edin.*, FRCSEd, FRCS Prof.  
 Watts, W. P. T., AFC, MB MS, FRCSEd Lectr.  
 Jones, J. D. T., MB MS, FRCS †Clin. Teacher  
 Feggetter, G. Y., MB BS, FRCS †Clin. Teacher  
 Dickinson, P. H., MSc *Ill.*, MB BS, FRCS †Clin. Teacher

†Clinical Teachers in Newcastle upon Tyne  
 Dental Hospital :

J. J. Long, LDS *Glas.* ; J. E. Daniels, LDS ;  
 G. Johnson, LDS ; J. Chalmers, MBE,  
 FDSRCS, JP ; H. A. Smith, LDS ; W. H.  
 Littlefield, BDS, FDSRCS ; P. H. Burke,  
 BDS ; J. B. Masterton, BDS, FDSRCS ;  
 G. Bennett, FDSRCS

**MEDICINE**

Lowdon, A. G. R., OBE, MA MB ChB,  
 FRCSEd, FRCS Dean  
 Armstrong, C. N., MD BS BHy DPH,  
 FRCP †Clin. Sub-Dean

**Anæsthetics**

Pask, E. A., OBE, MA MD BChir *Camb.*,  
 FFARCS Prof.  
 Cooper, E. A., MA MB BChir *Camb.*,  
 PhD *Birm.*, FFARCS First Asst.  
 Davison, M. H. A., MBE, TD, MD BS,  
 FFARCS †Lectr.  
 Stark, D. C. C., MB ChB *St. And.*,  
 FFARCS †Lectr.

## †Clinical Teachers

Ayre, T. P., FFARCS  
 Murray, J. L., MB BS  
 Houston, Mrs. Winifred M., MB BS  
 Horton, J. A. G., MB BS *Lond.*, FFARCS  
 Shafto, C. E., MB BS BDS, FFARCS  
 Mackenzie, A., MB BS, FFARCS  
 Tate, E. I., MB BS  
 Watts, Mrs. Sarah B. W., MB BS  
 Wheldon, J. T., MB BS, FFARCS  
 Millar, Mrs. Edith J., MB BS, FFARCS  
 Ritchie, B. W. T., MA *Camb.*, FFARCS  
 Inkster, J. S., MB ChB *Aberd.*, FFARCS  
 Research Assistant  
 Scott, H., BSc PhD *Edin.*

**Anatomy**

Scothorne, R. J., BSc MD ChB *Leeds*,  
 MD *Chic.* Prof.  
 Tonge, C. H., TD, MB BS BDS DDSc (Oral A.) Reader  
 Cauna, N., MD *Latvia*, MSc Reader  
 Barlow, T. E., MD ChB *Manc.* Sr. Lectr.  
 Gray, J. E., MB BS Sr. Lectr.  
 Snell, R. S., MB BS PhD *Lond.* Lectr.  
 Brown, H. G., MB BS, FRCS Lectr.  
 Warrick, C. K., MB BS *Lond.*, FRCSEd,  
 FFR (Radiol. A.) †Lectr.

**Bacteriology**

Green, C. A., MD ChB PhD DPH *Edin.* Prof.  
 Emslie-Smith, A. H., TD, MD ChB *Aberd.* Sr. Lectr.  
 Emslie-Smith, Mrs. Muriel, MSc Lectr.  
 Miller, T. K., MSc DThPT Lectr.  
 Porter, I. A., MB ChB *Glas.* Lectr.

**Cancer Research**

Farmer, F. T., BSc(Eng) *Lond.*, PhD *Camb.*,  
 FIP Hon. Member of Coll. Staff

**Child Health**

Court, S. D. M., MD ChB *Birm.*, FRCP \*  
 James Spence Prof.  
 Miller, F. J. W., MD BS, FRCP  
 (Soc. Pæd.) †Reader  
 Neligan, G. A., DM BCh *Oxon.*, MRCP Sr. Lectr.  
 Walker, W., MD BS Sr. Lectr.  
 Davison, G., MD BS, FRCP (Clin. Pæd.) †Lectr.  
 Knox, E. G., MD BS, MRCP Lectr.  
 Morley, Muriel E., DSc  
 (Speech & Speech Pathol.) Lectr.  
 Cooper, Christine E., MA MB BChir *Camb.*,  
 MRCP  
 Clin. Teacher at Newcastle General  
 Hosp., Lectr.  
 Associate Clin. Teachers  
 Brewis, E. G., MD BS DPH, FRCP  
 Heycock, J. B., MC, MRCP  
 Stansfeld, J. M., MA MD BChir *Camb.*

**Dental Surgery, see above****Dermatology**

Ingram, J. T., MD BS *Lond.*, FRCP Prof.  
 Bolam, R. M., MA MD BChir *Camb.*  
 (Clin. Dermatol.) †Lectr.  
 Holbi, G., MD ChB *Leeds* Hon. Lectr.

**Diseases of the Ear, Nose and Throat**

McGuckin, F., MD BS, FRCSEd †Lectr.  
 Black, J. I. M., MD MS; FRCS †Clin. Teacher  
 Dawes, J. D. K., BSc *Oxon.*, MD BS,  
 FRCS †Clin. Teacher

**Industrial Health**

Browne, R. C., MA DM *Oxon.*, MRCP  
 Nuffield Prof.  
 McCallum, R. I., MD BS *Lond.*, MRCP  
 Sr. Lectr.  
 Leathart, G. L., MB BChir *Camb.*, MRCP  
 Lectr.  
 Steel, J., BSc PhD (Occupnl. Hyg.) Lectr.  
 Newell, D. J., MA *Camb.* (Stats.) Lectr.

**Medicine**

Smart, G. A., BSc MD, FRCP Prof.  
 Thompson, R. B., MD BS, FRCP Sr. Lectr.  
 Vallance-Owen, J., MA MD *Camb.*,  
 MRCP †Lectr.  
 Owen, S. G., MD BS, MRCP Lectr.  
 Brewis, E. G., MD BS DPH, FRCP  
 (Infect. Dis.) †Lectr.  
 Miller, H. G., MD BS DPM, FRCP  
 (Neurol.) †Lectr.  
 Kerr, D. N. S., MB ChB *Edin.*, MSc *Wis.*,  
 MRCP First Asst.  
 Foster, J. B., MB BS, MRCP  
 (Neurol.) First Asst.  
 Armstrong, C. N., MD BS BHy DPH,  
 FRCP (Clin. Med.) †Lectr.  
 Ogilvie, A. G., MD BS, FRCP  
 (Clin. Med.) †Lectr.  
 Boon, T. H., MD BS, FRCP  
 (Clin. Med.) †Lectr.  
 Thompson, M., MD BS, MRCP  
 (Clin. Phys. Med.) †Lectr.  
 Dewar, H. A., MD BS, FRCP †Clin. Teacher  
 Walton, J. N., MD BS, MRCP  
 (Neurol.) †Clin. Teacher  
 Pennington, R. J. T., BSc PhD *Birm.*  
 (Neuro-Chem.) Res. Fellow  
 Pearce, G. W., PhD *St.And.*  
 (Neuro-Pathol.) Res. Fellow

**Midwifery and Gynaecology**

Russell, J. K., MD ChB *Aberd.*, FRCOG Prof.  
 Stabler, F. E., VD, MD BS, FRCS,  
 FRCOG †Lectr.  
 Snaith, L. M., MD MS, FRCS, FRCOG †Lectr.  
 Fairweather, D. V. I., MB ChB *St.And.* Lectr.  
 Hunter, W., MD BS, FRCOG Clin. Teacher  
 †Clin. Teachers at Newcastle General Hosp.  
 Arthur, H. R., MB BS, FRCS, FRCOG

Kerslake, Dorothy M.

First Asst.

Hughes, Helena E., MB ChB *Manc.*

**Ophthalmology**

Ingram, H. V., OBE, TD, MB BS †Lectr.  
 Lake, L. H., MB BS, DOMS †Clin. Teacher  
 Howat, J. M. L., MB ChB *St.And.*,  
 DO DOMS *Oxon.* †Clin. Teacher

**Orthopaedic Surgery**

Stanger, J. K., MB BS, FRCS †Lectr.  
 Robson, P. N., MB BS, FRCS Clin. Teacher  
 Bremner, A. E., MB ChB *St.And.*,  
 FRCS Assoc. Clin. Teacher  
 Todd, J. V., MB BS, FRCS  
 Assoc. Clin. Teacher

**Pathology**

Heppleston, A. G., MD ChB *Manc.*,  
 MRCP Prof.  
 Herbert, Freda K., MA *Camb.*, MB  
 BS *Lond.* (Chem. P.) Reader  
 Latner, A. L., MSc *Lond.*, MD ChB  
 DSc *Liv.*, MRCP, FRIC  
 (Med. Biochem.) Reader  
 Schade, R. O. K., MD *Tübingen & Durh.*  
 Sr. Lectr.  
 Hart-Mercer, J., MB ChB *Edin.* Sr. Lectr.  
 Field, E. J., PhD *Brist.*, MD MS  
 (Neuro-Pathol.) Sr. Lectr.  
 Anderson, G. S., MB BS Lectr.  
 Raine, Mrs. Laureen C. D. P., BSc PhD Lectr.  
 Corby, C. H., MB BS *Lond.*  
 (Forensic Pathol.) Lectr.  
 Pennington, R. J. T., BSc PhD *Birm.*  
 (Neuro-Chem.) Res. Fellow  
 Pearce, G. W., PhD *St.And.*  
 (Neuro-Pathol.) Res. Fellow

**Pharmacology**

Poole, H. H. †Lectr.

**Photography**

Duncan, C. J., MA *Camb.* Dir.

**Physiology**

Harper, A. A., MA MD ChB *Aberd.* Prof.  
 Schofield, B., MA MD BChir *Camb.* Reader  
 Saunders, J. A., MSc PhD (Chem. P.) Reader  
 Jenkins, G. N., MSc *Liv.*, PhD *Camb.*  
 (Oral P.) Reader  
 Wright, D. E., BSc *Lond.*, PhD Sr. Lectr.  
 Wynne, N. A., MB BS Sr. Lectr.  
 Forster, Margaret G., MA BSc *Aberd.*,  
 PhD Lectr.  
 Falconer, Jacqueline S., BSc *St.And.*,  
 PhD *Lond.* (Biochem.) Lectr.  
 Lake, H. J., MSc PhD *Birm.* (Biochem.) Lectr.  
 Catton, W. T., MSc *Sheff.* Lectr.  
 Scratcherd, T., MB BS Lectr.  
 Taylor, W., BSc PhD *Edin.* Lectr.  
 Blair, E. L., MB BS, MRCPed Lectr.  
 Keeler, R., BSc PhD *Birm.* Lectr.

**Psychological Medicine**

Roth, M., MD BS *Lond.*, DPM Prof.  
 Smith, F. V., MA *Syd.*, PhD *Lond.*,  
 FBPSS Consulting Psychologist  
 Kiloh, L. G., BSc MD BS *Lond.*, MRCP Reader  
 Orton, R., MD *Leeds*, MRCP, DPM Lectr.  
 Garside, R. F., BSc *Lond.* Lectr.  
 Liggett, J., BSc *Lond.* Lectr.  
 Osselton, J. W., BSc (Electronics) Lectr.  
 Gittins, J., MA BSc *Lond.* (Juv. Delinquency) †Lectr.

**Psychiatric Social Workers**

Middleton, Jean G., MA *Edin.*  
 Brandon, Mrs. Joanne, BA  
 Story, Isabel M.  
 Wassermann, Mrs. Bertha E. (Temp.)  
 †Associate Clin. Teachers  
 Cuthbert, T. M., DPM  
 Murray, J. R., MD BS *Lond.*, DPM  
 Child, J. P., MA BM BCh *Oxon.*, DPM, MRCP  
 McCoull, G., OBE, MD BS  
 Cobb, Kathleen B., MA *Camb.*, MB ChB  
 DipPsychiatry *Edin.*  
 Connell, P. H., MD BS *Lond.*

**Public Health**

Pearson, R. C. M., MD ChB *Edin.*,  
 DPH *Edin. & Glas.*, MRCPed †Lectr.  
 Stewart, R. H. M., MD ChB *Liv.*  
 (Hosp. Admin.) †Lectr.

**Radiology**

Davidson, S. W., MD BS, FRCP, FFR †Lectr.  
 †Clin. Teachers  
 Ramage, D., MD ChB *Manc.*, DMRE *Liv.*  
 Houston, B. D., MB BS, DMR  
 Warrick, C. K., MB BS *Lond.*, FRCSEd, FFR,  
 DMR  
 †Associate Clin. Teacher  
 Gryspeerdt, G. L., MB BS *Lond.*, DMR

**Radiotherapy**

Thurgar, C. J. L., MB BS *Lond.*, FRCS Lectr.

**Surgery**

Lowdon, A. G. R., OBE, MA MB ChB *Edin.*,  
 FRCS, FRCSEd Prof.

Tibbs, D. J., MC, MB MS *Lond.*, FRCS Reader  
 Walder, D. N., MD ChB *Brist.*, FRCS,  
 FRCSEd (Exper. S.) Sr. Lectr.  
 Scott, J. E. S., MA MB BChir *Camb.*,  
 FRCS Sr. Lectr.  
 Mason, G. A., MB BS, FRCS  
 (Thoracic S.) †Lectr.  
 Rowbotham, G. F., BSc *Manc.*, FRCS  
 (Neur. S.) †Lectr.  
 Braithwaite, F., OBE, MA MB BChir *Camb.*,  
 MSc *Manc.*, FRCS (Plastic S.) †Lectr.  
 Swinney, J., MC, MD MS, FRCS  
 (Urol. S.) †Lectr.  
 Leaming, D. B., MB BS, FRCS First Asst.  
 Hammersley, D. P., BA Med. Artist

**Lectrs. in Clin. Surgery**

Whyte, A. H., DSO, TD, MB MS, FRCS  
 Feggetter, G. Y., MB MS, FRCS  
 Watts, W. P. T., AFC, MB MS, FRCSEd

**†Clinical Teachers**

Jones, J. D. T., MB MS, FRCS  
 Hindmarsh, F. D., MB MS, FRCS  
 Dickinson, P. H., MSc *Ill.*, MB BS, FRCS  
 Hankinson, J., MB BS *Lond.*, FRCS (Neurol. S.)  
 Edwards, J. R. G., BSc MB BS *Lond.*, FRCS  
 McEvedy, B. V., MA BM MCh *Oxon.*, FRCS

**†Clin. Teacher at Newcastle General Hosp.**

Rose, J. D., MB BS, FRCS

**Venereology and Allied Diseases**

Macfarlane, W. V., MD ChB DPH *Edin.* Lectr.

**UNIVERSITY EXTENSION**

Dir. of Extra-Mural Studies: B. W. Abrahart,  
 Med, JP

Dep. Dir. & Sr. Lectr.: N. Dees, BA *Manc.*

Staff Tutors: Elizabeth Carrick, MA *Lond.*;  
 Constance M. Fraser, BA PhD, FRHistS  
 (Temp.); G. Jobey, DSO, MA; A. G.  
 Lunn, BSc PhD; A. D. R. Tompkins, BA  
*Leeds*, MLitt *Camb.*; W. M. Williams, MA  
*Oxon.*; A. G. Wilson, BA *Manc.*; R. D.  
 Harrison, BSc *Birm.*; B. G. Foord, BSc  
 (Econ) *Lond.*

**ADMINISTRATIVE AND OTHER STAFF**

REGISTRAR'S DEPT. Dep. Registrar: D. H.  
 Willson, BA *Oxon.*; Asst. Registrars: T. R.  
 Saunders, BA *Manc.*; N. Shott, DFC (at Med.  
 Sch.); J. M. Brewin, MA *Camb.* (at Dent. Sch.);  
 Admin. Assts.: P. W. Price, MA *Oxon.*;  
 Margaret E. Hupton, BA *Liv.*

BURSAR'S DEPT. Finance Officer: T. E.  
 Brown, DPA *Lond.*, BCom; Dep. Finance  
 Officer: L. Scrivener; Asst. Finance Officer:

W. Lawson; Cashier: P. L. Darling; Admin.  
 Asst.: R. F. Todd, MA *St.And.*; Accounts  
 Assts.: J. D. Davison, A. N. Hunter, E. R. Bell;  
 Estates Officer: R. E. Harris; Estates Asst.:  
 A. Blackburn.

LIBRARY. Dep. Librarian: E. F. Patterson,  
 MA; Sr. Asst. Librarian: Joan M. Gladstone,  
 BA *Lond.*, FLA; Asst. Librarians: Winifred C.  
 Donkin, MA, FLA, Marjorie E. Duff, MA *Oxon.*,

FLA, Mrs. Margaret Swan, BSc PhD, FGS, G. M. Budge, MA *Manc.*, Joan S. Emmerson, MA; P. Pridmore, BA; C. J. Hunt, BA *Exe.*

WARDENS OF HALLS OF RESIDENCE. Women Students: Alfreda M. Truesdale, DipEd *Liv.*, BSc (Ethel Williams Hall); Betty L. Moss, MSc PhD *Lond.* (Easton Hall); Margaret M. Aitchison (Sub-Warden, Easton Hall); Men Students: B. E. Q. Smith, BSc(Econ) *Lond.* (Henderson

Hall); R. Hiscock, MSc (Eustace Percy Hall).

HON. CHAPLAIN. Rev. A. J. Bennitt, MA.

WARDEN OF LODGINGS. Mrs. Stella Robinson, BA *Leeds*.

DEPARTMENTAL ADMIN. ASSTS. D. M. Allen, MBE, BA *Oxon.* (Phys.); Edith Armstrong, BA *Lond.* (Psychol. Med.); Norah S. Brown, BSc (Chem.); S. Campbell, MA (Fine Art); A. P. Miller, BCom (Extra-Mural Studies).

## GENERAL INFORMATION

The Newcastle upon Tyne Sch. of Med. & Surg. was founded in 1834, became associated with the Univ. of Durham in 1852 and adopted the title of Univ. of Durham Coll. of Med. in 1870. Armstrong Coll., Newcastle upon Tyne, so named in 1904, was founded in 1871 as the Univ. of Durham Coll. of Physical Sci. In 1937 the two colls. were merged to form King's Coll., Newcastle upon Tyne, in the Univ. of Durham.

INCOME (1958-59). £1,604,851.

DEVELOPMENT OF COLLEGE AREA. Devel. is taking place on a site not far from the city centre, around the original bldgs. of Armstrong Coll. New bldgs. completed since the war include chem. block, Stephenson bldg. (various engin. depts. and maths.), civil engin. bldg., a new arts block, an extension to the chem. block, an extension to library and a new phys. bldg. A new phys. res. block is being built and there are plans for addnl. halls of residence, extension of students' union and a new staff club.

LOCATION OF DEPARTMENTS, etc., not in main college area. Cockle Park Exper. Stn. (agric.), Morpeth, Northumberland; Dove Marine Lab. (zool.), Cullercoats, Northumberland; dept. of educn., 11-13 Leazes Terrace, Newcastle upon Tyne, 1; Nafferton Farm, Stocksfield, Northumberland; Sutherland Dental Sch., Northumberland Rd., Newcastle upon Tyne, 1.

LIBRARY, approx. 250,000 vols. and approx. 65,000 pamphlets (incl. the med. libraries). There are also deptl. libraries. Sp. collections: Heslop, Engl. dictionaries (277 vols.); Merz, philos., math. and general (3940 vols.); oriental, with sp. ref. to India (2762 vols., 2082 pamphlets); Gertrude Bell, oriental (1963 vols.); Robert White (c. 4000 vols.), Engl. and Scottish ballads, border hist.

MUSEUMS. Anat., pathol., dent., zool., geol., mineral., chem., mining, anthropol., Roman-British archæol. Technol. specimens.

LABORATORIES with spec. facilities for res. in mech., marine, civil, electr. and chem. engin., naval archit., mining and metall.; in chem., phys., geol., bot. and zool. (incl. marine biol. at Dove marine lab.); and in agric. (incl. agric. engin.).

The agric. dept. manages the coll. farm at Nafferton, Prudhoe stn., and the coll. exper. stn. at Cockle Park; it also has the use of other county and crown estates for teaching, res. and demonstration purposes.

ADMISSION. Those wishing to read in the coll. for a degree (awarded by the Univ. of Durham) must satisfy the univ. matric. requirements (see Appendix II). There are reduced requirements for admission to study for the univ. dipls. in econ. studies, pub. admin., for the univ. cert. in soc. studies, and for the coll. certs. in archit., fine art and town planning; candidates for admission to the cert. in soc. studies course should be over 20.

Enquiries concerning admission to non-med. depts. of the coll. should be addressed to the Registrar, King's Coll., Newcastle upon Tyne, 1; students wishing to read med. should write to the Asst. Registrar, the Med. Sch., King's Coll., and dent. surg. to the Asst. Registrar, Sutherland Dent. Sch., Northumberland Rd., Newcastle upon Tyne, 1.

The last dates for receipt of applicns. are, for med., Nov. 30; for all other courses, incl. dent. surg., Jan. 31, preceding the Oct. of entry.

FIRST DEGREES (of Univ. of Durham). The coll. provides courses for degrees of the Univ. of Durham as listed below. 3 yrs.—BA (hons. may be taken in Latin & Greek; Latin lang. & lit. (with Greek to final gen. standard; candidates who have been awarded hons. may subsequently take a 1-yr. course leading to hons. in Greek); maths.; Engl. lang. & lit.; French; German; French & German; Spanish & Latin-American studies; Spanish and French or German; Scandinavian studies; mod. hist.; geog.; anthropol.; geog. & anthropol.; philos.; philos. & psychol.; Engl. & philos.; econ. & geog.; econ. & anthropol.; pol. & econ.; pol. & anthropol.; music). Also 3 yrs.—BA in econ. studies (3 or 4 yrs. for hons.), BA in social studies, LLB, BSc (3 or 4 yrs. for hons. in maths. [pure & appl.]; phys.; chem.; geol.; geog.; zool.; bot.; physiol.), BSc in agric. (4th yr. for hons.), BSc in appl. sci. (4 or 3 yrs. for hons. in chem. engin., civil engin.; electr. engin., marine engin., mech. engin., metall., mining engin., naval archit.). 4 or 5 yrs.—BA in fine art. 5 yrs.—BA hons. in town & country planning, BArch. 6 or 5 yrs.—BDS, MB BS.

There is a prelim. *transfer year* for students who have not specialized in sci. at sch. but who now wish to read for a 1st degree in sci.

HIGHER DEGREES. Facilities for res. for higher degrees of the Univ. of Durham (see p. 892). 2-yr. course in agric. engin. for MSc.

**TUTORIAL SYSTEM.** Each student (except in the dent. sch.) is assigned on entry to a tutor, who is responsible for advising him on his course and generally looking after his interests. The dean of the dent. sch. performs similar duties for dent. students.

**CLINICAL INSTRUCTION.** Instru. in clin. med. and surg. is given in the Royal Victoria Infirmary (830 beds) and other hosps.; in practical midwifery and clin. gynæcol. at the Princess Mary Maternity Hosp. and Newcastle Gen. Hosp.; in clin. dent. surg. in the Newcastle upon Tyne Dental Hosp. The pathol. museum provides an exceptional collection of specimens prepared by modern methods. Postgrad. med. and dental teaching is supervised by cttees. representing the coll. and assoc. hosps. Res. facilities are available in the various depts.

**UNIVERSITY DIPLOMAS AND LICENCE.** Educn. (DipEd) or art educn. (art teacher's dipl.) (1 yr. after graduation); anthropol. (usually 2 yrs. after graduation); archit. (5 yrs.); town planning (1 yr. after cert.); landscape design (1 yr.); econ. studies (2 yrs.); pub. admin. (2 yrs.); pub. health engin. (1 yr. postgrad.); highway & traffic engin. (1 yr. postgrad.); appl. electronics (1 yr. postgrad.); electr. power engin. (1 yr. postgrad.); pub. health (pt.-time, 5 terms postgrad.); psychol. med. (pt.-time, 2 yrs. postgrad.); bibl. studies (post-grad.: full-time, 1 yr.; pt.-time, 2 yrs.); licence in dent. surg. (LDS, 5 yrs.).

**UNIVERSITY CERTIFICATES.** Biblical studies (postgrad., 2 yrs. pt.-time or 1 yr. full-time); soc. studies (2 yrs.).

**COLLEGE CERTIFICATES.** Appl. soc. studies (1 yr. postgrad.); fine art (2-3 yrs., pt.-time); archit. (5 yrs., pt.-time); town planning (1-2 yrs. full-time or 2-3 yrs. pt.-time, according to qualifs.); publ. health engin., highway & traffic engin., struct. design, prodn. engin., fuel technol., electronics, electr. power engin., coal preparation, ore dressing (each 1 yr. postgrad.).

**OTHER COURSES, ETC.** Dept. of fine art: exhibitions in Hatton gallery; evg. courses in many subjects. Dept. of music: concerts and recitals. Dept. of econ. studies: intending accountants may obtain exemption from professional inter. exam. by taking certain subjects in BA course. Dept. of law: articulated clerks' courses for inter. and final exams. of Law Soc.

**FEES.** *Facs. other than med.* The following *annual fees* cover tuition, registration (£2 p.a. for full-time students) and exams. (*as shown under Univ. of Durham, above*), but do not incl. fees for matric., re-exam. and graduation, nor for students' socs. and univ. union (£6 p.a.). BA or LLB, £50; BSc in pure sci., engin., naval archit., mining, metall., or agric., £60 (for BSc hon. geog. or maths. the fee for the final 2 yrs. is £50 p.a.); BArch, £50 (4th & 5th yrs., £40); BA hon. town & country planning, £50. Postgrad. study or res.: with lab. facilities, £40, without lab. facilities, £30. Dipl. and cert. courses: educn., £60; Univ. Inst. of Educn. art teachers' dipl.,

£60; anthropol., £50; soc. studies, £50; appl. soc. studies, £69; bibl. studies, £50; econ. & pub. admin., £50; archit. dipl., £50 (4th & 5th yrs., £40); town planning, £50; landscape design, £50; spec. courses in appl. sci., £60; agric. engin. (MSc), £60. Expenses on field work will be incurred to the approx. amount stated in each yr. in which the following subjects are taken: agric., 1st-yr. students 15s., other students £2:10s.; bot., £10; zool., £10; geog., 1st-yr. students £8, other students £12, with additional expenses for hon. students preparing regional dissertations or for field work abroad; geol., 1st-yr. students £4, other students £12; surveying (for engin. students), £15:15s.; advanced surveying (for geog. students), £15:15s.; mining surveying, £20; mining (tour of mines and coalfields), £15.

*Facs. of med.* The following fees are *annual*, except where stated, and cover tuition, registration and exams. (*as shown under Univ. of Durham, above*), but not matric., re-exam., graduation, or students' socs. or univ. union (£6 p.a.). Systematic, practical and clin. instru.: med., £60; dent. surg., £55; dipl. in pub. health, £69 (for whole course); dipl. in psychol. med., £76 (for whole course). Various incidental fees are also payable.

For fees for matric. and degrees, *see under Univ. of Durham, above*.

**POSTGRADUATE AWARDS** open to graduates of other univs.: *see p. 825*.

**RESEARCH.** In addn. to facilities indicated above (*under Laboratories and Clinical Instruction*), there are facilities for res. in various arts depts. Res. publicns. by staff are listed annually in Rector's *Report*.

**RESEARCH FUNDS.** Various funds for the encouragement of res. are administered by the council of the coll.; from these have been establd. res. fellowships such as the Sir James Knott fellowships and the Wilfred Hall fellowship. There are also available at the med. and dent. schs. several funds for med., surg. and dent. res., e.g. William Dodds, J. W. Luccock.

**GRADUATES' ASSOCIATION.** King's Coll. • old students' assocn. organizes social and sporting events and distributes certain coll. publicns.

**RESIDENCE.** (For wardens, *see 'Admin. and Other Staff', above*.) For women (fees, £126 p.a.): Easton Hall, Eskdale Terrace, Newcastle upon Tyne 2 (tel.: Newcastle 81-0507), 75 students; Ethel Williams Hall, Eastfield Rd., Longbenton, Newcastle upon Tyne 7 (tel.: Newcastle 66-2434), 132 students. For men (fees, £132 p.a.): Henderson Hall, Cochrane Pk., Newcastle upon Tyne 7 (tel.: Newcastle 66-1900), 90 students; Eustace Percy Hall, Freeman Rd., Newcastle upon Tyne 3 (tel.: Newcastle 5-4001), 500 students.

**STUDENTS' SOCIETIES, CLUBS, ETC.** There are a large number of students' socs. and clubs covering a wide range of interests and activities. The King's Coll. students' representative council exists to promote these interests and activities.

and the union soc. provides a centre for social contacts and for various student amenities.

**STUDENT ATHLETIC FACILITIES.** There are 2 sports grounds, a new boat-house and 2 gymnasias, providing for all forms of athletic activity, both indoor and outdoor.

**UNIVERSITY EXTENSION: KING'S COLL. DEPT. OF EXTRA-MURAL STUDIES.** Tutorial classes in various centres (most of the tutors are regular members of coll. staff). Provision made for educn. of national service men, who have higher educnl. qualifs., stationed in the area of univ. Extension lectures also given within this area.

**PUBLICATIONS.** Rector's *Report*; King's Coll. *Handbook*; *Prospectuses* of the med. and dent.

schs.; King's Coll. dept. of agric. (farm econ. branch) *Reports*, 7s. 6d. p.a.; *Journal* of the King's Coll. Agric. Soc., 3s. 6d. per no.; King's Coll. *Engin. Soc. Journal*, 1s. per no.; King's Coll. *Geog. Soc. Journal*, 1s. 6d. p.a.; King's Coll. *Mining Bulletin*, £1: 1s. p.a.; King's Coll. *Mining Soc. Journal*, 5s. p.a.; Univ. of Durham *Philos. Soc. Proceedings*, 1s. per no.; *Planning Outlook* (dept. of town & country planning), 15s. p.a.; Univ. of Durham *Med. Gazette*, 7s. 6d. p.a.; *The Northerner* (student publicn.), 6d. per no.; *King's Courier* (students' newspaper), 3d. per no.; King's Coll. S.R.C. *Students' Handbook*, 4s. 6d.; Earl Grey memorial lectures, 1s. per copy; William Henry Charlton memorial lectures, 4s. 6d. per copy.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Appeal fund raised to £318,299. (Total value of all benefactions received: £13,282).

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: extension to chem. block. *Approaching completion*: new phys. bldg.; extension to library.

**NEW CHAIRS.** See p. 894.

**NEW READERSHIPS.** See p. 894.

**RETIREMENTS.** D. C. Colborne (maths.); J. Dickinson (supervisor of lodgings and sr. tutor in appl. sci.); D. H. Dinsdale (agric. econ.); Prof. E. M. Dunlop (bacteriol.); Prof. J. C. Prescott (electr. engin.); Prof. W. W. Rogosinski (pure maths.); Irene J. Ward (educn.); J. F. Wood (phys.).

**RESIGNATIONS.** R. Adair (cashier), apptd. bur-sar, Imp. Coll. of Tropical Agric., Trinidad; Q. C. S. Bell (fine art), apptd. sr. lectr. in fine art, Leeds; R. Bradlaw (dent. surg.), apptd. dean & dir. of studies, Eastman Dental Hosp., Lond.; J. E. Butt (Engl.), apptd. regius prof. of Engl. lit. & rhetoric, Edin.; R. C. W. Dinsdale (dent. surg.), apptd. to Royal Hosp., Sheffield; J. W. Dungey (maths.), apptd. to U.K. Atomic Energy Authority; F. Fielden (archit.), apptd. prof. of archit., Royal Coll. of Sci. & Technol., Glasgow; F. E. Hopper (dent. surg.), apptd. prof. of dent. surg., Leeds; L. E. Liddell (educn.), apptd. dir. of phys. educn., Edin.; N. E. Loveless (indust. health), to St. And.; B. W. Martin (mech. engin.), apptd. reader in mech. engin., Imperial Coll. of Sci. & Technol., Lond.; J. W. Perrott (anat.), apptd. sr. lectr. in anat., Syd.

**DEATH.** F. G. Watts (sr. lectr., mech. engin.).

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	2859	283
Women . . .	772	100
<b>Total . . .</b>	<b>3631</b>	<b>383*</b>

\* Includes 74 MED candidates, registered and studying in both Durham and Newcastle divisions

**Distribution by Faculties.** *Agric.*, 161; *appl. sci.*, 723; *arts*, 1155; *dent. surg.*, 339; *econ. studies*, 141; *educn.*, 179\*; *law*, 112; *med.*, 483; *sci.*, 721. Total: 4014.

*Included in the figures above are:—*

Postgraduate students, 341.

New admissions, 1010.

Students from other countries, 245. (Countries from which largest numbers came: Norway, 38; Nigeria, 31; Ghana, 23).

**DEGREES AWARDED (1958-59).** *Agric.*: BSc (Agric), 25; BSc (hons.), 5; MSc(Agric), 3; DSc(Agric), 2; PhD(Agric), 9. *Appl. sci.*: BSc, 94; BSc (hons.), 102; MSc, 8; MSc(AgricEng), 6; PhD, 9. *Arts*: BA, 63; BA (hons.), 99; BAArch, 2; BAArch (hons.), 3; MA, 6; PhD, 1; MLitt, 1; BCL, 1. *Econ. studies*: BA, 13; BA (hons.), 5; MA, 1. *Law*: LLB, 3; LLB (hons.), 18. *Med. (incl. dent. surg.)*: MB BS, 64; MB BS (hons.), 4; MD, 6; PhD, 3; BDS, 20; BDS (hons.), 2; DDSc, 1. *Sci.*: BSc, 32; BSc (hons.), 117; MSc, 9; DSc, 2; PhD, 13. PhD (all facs.): 35. Total number of first degrees awarded, 671.

**DIPLOMAS AWARDED (1958-59).** Archt., 12; educn., 94; electr. power engin., 1; foreign langs., 1; highway engin. & traffic studies, 4; landscape design, 4; psychol. med., 5; pub. health engin., 5; town planning, 7.

**LICENCES AWARDED (1958-59).** Dent. surg. (LDS), 33.

**CERTIFICATES AWARDED (1958-59).** Univ. certs.: biblical studies, 3; soc. studies, 4.



# UNIVERSITY OF EXETER\*

Founded 1955 ; previously established as the University College of the  
South West of England, 1922

Postal Address : Exeter, England

Telephone : Exeter 77911

VISITOR—H.M. THE QUEEN

CHANCELLOR—THE DOWAGER DUCHESS OF DEVONSHIRE, GCVO, CBE, Hon. LLD

PRO-CHANCELLOR—B. G. LAMPARD-VACHELL, CBE, MA *Camb.*, LLB *Lond.*, Hon. LLD, JP

VICE-CHANCELLOR—J. W. COOK, DSc PhD *Lond.*, Hon. ScD *Dub.*, FRIC, FRS

DEPUTY VICE-CHANCELLOR—Professor J. SYKES, OBE, MA PhD *Leeds*, MCom *Manc.*

TREASURER—R. W. TURNER, MA LLM *Camb.*

SECRETARY—R. ROSS, MA(Admin) *Manc.*

ACADEMIC REGISTRAR—A. G. BARTLETT, MA *Camb.*

LIBRARIAN—L. J. LLOYD, MA *Camb.*, FRSL, FSA

## TEACHING STAFF

[† = Part-Time]

### Botany

Caldwell, J., DSc *Glas.*, PhD *Glas.* & *Camb.* Prof.  
Wilkinson, J., PhD *Durh.*, FLS Sr. Lectr.  
Proctor, M. C. F., MA PhD *Camb.* Lectr.  
Tarr, S. A. J., BSc PhD *Lond.* Lectr.  
Ivimey-Cook, R. B., BSc PhD *Wales* Lectr.  
Robb, Sheila M., BSc *Aberd.* Res. Asst.

### Chemistry

Rydon, H. N., DPhil *Oxon.*, PhD DSc *Lond.*,  
MScTech *Manc.*, FRIC Prof.  
Gregg, S. J., DSc PhD *Lond.*, FRIC  
(Surface C.) Reader  
Schofield, K., DSc PhD *Durh.*, FRIC (Org. C.) Reader  
Long, L. H., DIC, BSc *Lond.*, PhD *Lond.* &  
*Camb.* Sr. Lectr.  
Whitehurst, J. S., BSc PhD *Lond.* Lectr.  
Bishop, E., BSc *Glas.* Lectr.  
Mason, S. F., MA DPhil *Oxon.* Lectr.  
Williams, R. J., BSc PhD *Lond.* Lectr.  
Read, G., PhD *Nott.* Asst. Lectr.  
1 Res. Fellow

### Classics

Clayton, F. W., MA *Camb.* Prof.  
Knight, W. F. J., MA *Oxon.*, FRSL Reader  
Mathewson, I. R. D., MA *Oxon.* Lectr.  
Stubbs, H. W., MA *Oxon.* Lectr.  
Herington, C. J., MA *Oxon.* Lectr.

### Economics and Public Administration

Sykes, J., OBE, MA PhD *Leeds*, MCom *Manc.* Prof.  
Burton, H., MA *Oxon.* Sr. Lectr.  
Burton, Mrs. Patricia, BA *Wales* Lectr.  
Meyer, F. V., BSc(Econ) PhD *Lond.* Lectr.  
Rose, H., MA *Oxon.* Lectr.  
Steer, W. S., LLB *Lond.*, DPA (Pub. Admin.) Sr. Lectr.  
Dunsire, A., MA *Edin.* (Pub. Admin.) Lectr.  
Williams, A. H., BCom *Birm.* Lectr.  
Corner, D. C., BPhil *Oxon.*, PhD *Sheff.* Lectr.  
Vile, M. J. C., BSc(Econ) PhD *Lond.* (Pub. Admin.) Lectr.  
Oliver, F. R., MA *Camb.*, DPhil *Oxon.* •  
(Econ. & Soc. Stats.) Lectr.  
Crabtree, D., BSc(Econ) *Lond.* (Pub. Admin.) Lectr.  
Fletcher, P. J., BSc(Econ) *Lond.* (Pub. Admin.) Lectr.  
1 Res. Fellow

### Education and Psychology

D'Aeth, R., AM *Harv.*, PhD *Camb.* Prof.  
Collins, D. C., MA PhD *Lond.* Sr. Lectr.  
Barling, T. J., MA *Birm.* Lectr.  
Ross, Isobel G. T., MA *Aberd.* Lectr.  
Winter, H. J. J., DSc PhD *Lond.* Lectr.  
Hourd, Marjorie L., BA *Brist.*, BLitt *Oxon.* Lectr.  
Hill, C. P., MA *Oxon.* Lectr.  
Tahta, D. G., MA *Oxon.* Lectr.

\* Member of the Association of Universities of the British Commonwealth

Szafran, J., MA PhD *Camb.* (Psychol.) Lectr.  
 Staniland, A. C., BA *Lond.* (Visual E.) Lectr.  
 Fairclough, H. D. (Phys. & Health E.) Lectr.  
 Goodwin, Doreen V. (Phys. & Health E.) Lectr.  
 Lynn, R., MA PhD *Camb.* (Psychol.) Lectr.  
 Brebner, J. M. T., MA *Aberd.* (Psychol.) Res. Asst.

**English**

Horrox, W. L., MA *Camb.* Prof.  
 Cruttwell, M. J. P., BA *Camb.* Lectr.  
 Dexter, Kathleen M., BA *Lond.* Lectr.  
 Speirs, J. H., BA *Camb.*, MA *Aberd.* Lectr.  
 Suddaby, Elizabeth, MA *Oxon.* Lectr.  
 Mason, H. A., BA *Lond.*, MA *Oxon.* & *Camb.* Lectr.  
 Hill, A. G., MA *St.And.*, BLitt *Oxon.* Lectr.  
 Salter, K. W., MA *Brist.* (overseas students) Tutor  
 Parkinson, R. N., MA *Camb.* (overseas students) Lectr.  
 Lloyd, Mrs. Vera (overseas students) †Lectr.

**French with Spanish**

Niklaus, R., BA PhD *Lond.*, LèsL *Lille* Prof.  
 Yarrow, P. J., MA *Camb.*, DU *Paris* Sr. Lectr.  
 Duthie, Enid L., MA *St.And.*, DU *Paris* Lectr.  
 Wilson, Aileen, MA *Dub.*, LèsL DU *Paris* Lectr.  
 Fox, J. H., BA *Lond.*, DU *Paris* Lectr.  
 Fox, Mrs. Jacqueline E., LèsL Agrdel'U *Paris* †Lectr.  
 Trotter, G. D., MA *Dub.* (Spanish) Lectr.  
 Biard, J. D., BA *Lond.* Lectr.  
 Jenkins, C., MA PhD *Dub.* Lectr.  
 1 French Asst., 1 Spanish Asst.

**Geography**

Davies, A., MSc *Wales* Reardon Smith Prof.  
 Shorter, A. H., MA *Manc.*, PhD *Lond.*, FSA Montefiore Reader  
 Patterson, Mrs. Ethel J., MA *Liv.*, PhD *Lond.* Lectr.  
 Johns, E. M., MA *Camb.* Lectr.  
 Ravenhill, W. L. D., MA *Wales*, PhD *Lond.* Lectr.  
 Waters, R. S., MA *R'dg.* Lectr.  
 Revesz, T., PhD *Bud.* Lectr.

**Geology**

Simpson, S., MA *Camb.*, DrRerNat *Fran.*, FGS Prof.  
 Coe, K., BSc *Lond.*, PhD *Dub.* Lectr.  
 Stone, M., BSc *Liv.* Lectr.  
 Selwood, E. B., BSc PhD *Brist.* Asst. Lectr.  
 Thomas, J. M., BSc *Lond.* Asst. Lectr.

**German**

Garland, H. B., MA PhD *Camb.* Prof.  
 Swinburne, Hilda, MA *Oxon.* Lectr.  
 Garland, Mrs. Hertha M. L., BA *Lond.* Lectr.  
 Coupe, W. A., BA PhD *Camb.* Lectr.  
 Richards, D. J., BA BLitt *Oxon.* (Russian) Asst. Lectr.

**History**

Barlow, F., MA DPhil *Oxon.* Prof.  
 Handcock, W. D., MA *Brist.*, BLitt *Oxon.* Sr. Lectr.  
 Greenaway, G. W., MA *Camb.* Sr. Lectr.  
 Jacobs, D., MA *Camb.* †Lectr.  
 Youings, Joyce, BA PhD *Lond.*, FRHistS Lectr.  
 Clapp, B. W., BA *Lond.* Lectr.  
 Hennessy, C. A. M., MA DPhil *Oxon.* Lectr.  
 Eyck, U. F. J., MA *Oxon.* Lectr.  
 Fisher, H. E. S., BSc(Econ) *Lond.* Lectr.  
 Wolffe, B. P., MA DPhil *Oxon.* Lectr.  
 Fox, Lady Aileen, MA *Camb.*, FSA (British Archæol.) Sp. Lectr.  
 Murphy, J. E., Slade Dip (Hist. Fine Art) Lectr.  
 Portman, D., BA *Oxon.* (Dom. Archit.) Res. Fellow

**Law**

Parker, C. F., MA LLB *Camb.* Bracton Prof.  
 Roberts, C. H., MA *Oxon.* Sr. Lectr.  
 Hall, J. S., MA LLB *Camb.* Lectr.  
 Connelly, C. J., LLB *Lond.* Lectr.  
 Lasok, D., LLM *Durh.*, PhD *Lond.* Lectr.  
 Lillywhite, Barbara, LLB *Lond.* Lectr.  
 Exshaw, E. Y., LLB MA *Lond.* Lectr.

**Mathematics**

Price, A. T., DSc *Manc.* (Appl. M.) Prof.  
 Rees, D., MA ScD *Camb.* (Pure M.) Prof.  
 Mulholland, H. P., MA PhD *Camb.* (Analysis) Reader  
 Mallison, H. V., MA *Camb.*, BSc *Lond.* Sr. Lectr.  
 Williams, J., MSc *Wales*, PhD *Lond.* Lectr.  
 Button, Lilian G., MSc *Lond.* Lectr.  
 Hammond Smith, D., MA PhD *Camb.* Lectr.  
 Stone, D. J., MSc *Lond.* (Mathl. Stats.) Lectr.  
 Herszberg, J., MSc PhD *Lond.* Lectr.  
 Klein, G., MSc PhD *Lond.* Lectr.  
 Duller, G. A., BSc *Lond.* Lectr.  
 Macdonald, I. G., BA *Camb.* Lectr.  
 Beaumont, G. P., MA MSc *Lond.* (Mathl. Stats.) Lectr.

**Music**

Moore, R., BMus *Durh.*, FRCO †Dir.

**Philosophy and Sociology**

O'Connor, D. J., MA *Chic.*, PhD *Lond.* Prof.  
 Hudson, W. D., MA BD PhD *Lond.* Lectr.  
 Keene, G. B., BA *Birm.*, BPhil *Oxon.* Lectr.  
 Mitchell, G. D., MBE, BSc(Econ) *Lond.* (Sociol.) Sr. Lectr.  
 Callard, M. Pauline, BCom *Lond.* (Sociol.) Lectr.  
 Hewitt, Margaret, BA PhD *Lond.* (Sociol.) Lectr.  
 Cormack, Una M., MA *Oxon.* (Sociol.) Lectr., Tutor  
 Fox, J. R., BSc(Soc) *Lond.* (Sociol.) Lectr.

**Physics**

Conn, G. K. T., MA *Aberd.*, PhD *Camb.* Prof.

Grew, K. E., DSc *Birm.*, PhD *Birm.* & *Camb.*, FIP Reader  
 Weekes, K., BSc MA PhD *Camb.* (Geophys.) Reader  
 Lothian, G. F., MA *Oxon.*, FIP Sr. Lectr.  
 Drabble, J. R., BSc PhD *Lond.* (Solid State Phys.) Sr. Lectr.  
 Portman, N. A., BSc *Lond.* Lectr.  
 Flack, F. C., BSc PhD *Liv.* Lectr.  
 Rosser, W. G. V., MSc PhD *Manc.* Lectr.  
 Cousins, J. E., BSc PhD *Nott.* Asst. Lectr.  
 Jakeways, R., BSc *Lond.* Asst. Lectr.  
 1 Res. Fellow

**Psychology**, see Educn. and Psychol.

**Public Administration**, see Econ.

**Russian**, see German

**Sociology**, see Philos. and Sociol.

**Spanish**, see French with Spanish

### Theology

Jalland, Rev. T. G., MA DD *Oxon.* Hd. of Dept.  
 Moreton, Rev. M. J., BA *Lond.*, MA *Oxon.* †Lectr.  
 Balmforth, Rev. Canon H., MA *Oxon.* †Lectr.

### Zoology

Harvey, L. A., DIC, MSc *Lond.* Prof.  
 Hawes, R. S. J., BSc PhD *Lond.*, FLS Lectr.  
 Vickers, G. G., MSc *Sheff.* Lectr.  
 Linn, I. J., BSc *Edin.* Lectr.  
 Sleight, M. A., BSc PhD *Brist.* Asst. Lectr.

### INSTITUTE OF EDUCATION

Milton, A., MA *Camb.* Dir.  
 Butler, C. D., DIC, MA MSc(Eng) *Lond.* Staff Tutor  
 Stirling, A., MA *Camb.* Staff Tutor  
 Ross, A. M., BA PhD *Lond.* Lectr.

### EXTRA-MURAL STUDIES

Sellon, H. G. R., MA *Oxon.* (Internat. Pol.) Prof., Hd. of Dept.  
 Angove, Phyllis M., BA *Lond.* Resident Tutor  
 Hallowell, E., MA *Oxon.* Resident Tutor  
 Harris, Mrs. Gladys, MA *Lond.* Resident Tutor  
 Harris, F. L., OBE, MA *Oxon.* Resident Tutor  
 Hollander, H., DPhil(Mus) *Vienna* Resident Tutor  
 Lewis, C. A., BA *Manc.* Resident Tutor  
 Pim, J. R., MA *Oxon.* Resident Tutor  
 Todd, A. C., BA PhD *Lond.* Resident Tutor  
 Walters, W. E., MA *Wales*, FRHistS Resident Tutor

## ADMINISTRATIVE AND OTHER STAFF

OFFICE OF THE SECRETARY. Asst. Secs.: W. J. Kindell, FCIS (Finance); D. Severn, MA *St. And.* (Properties & General). Chief Clerk (Finance): E. J. Brockhurst.

OFFICE OF THE ACADEMIC REGISTRAR. Asst. Registrars: R. A. Erskine, BA *Birm.*; D. W. J. Morrell, MA LLB *Edin.* Admin. Assts.: Mrs. Barbara Small, BA *Oxon.*; Janet B. Dyer, BA *Lond.* Lodgings Officer: Mrs. Lovis E. Hibbard.

LIBRARY. Sub-Librarians: A. A. Brockett, BA *Lond.*, MA, FLA; Joyce Packer, BA *Lond.* Archivist: Mrs. Audrey M. Erskine, MA BLitt *Oxon.*, FRHistS. Asst. Librarians: June Cooling, MA *Brist.*; Mary T. Claxton, BA *Lond.*, MA.

WARDENS OF HALLS OF RESIDENCE. Reed Hall (men), C. A. M. Hennessy, MA DPhil *Oxon.*; Mardon Hall (men), D. Hammond Smith, MA PhD *Camb.*; Exeter Hall (men), J. H. Speirs,

BA *Camb.*, MA *Aberd.*; Crossmead Hall (men), R. Lynn, MA PhD *Camb.*; Hope Hall (women), Betty Powell, BA *Manc.*, PhD *Lond.* Lopes Hall (women), Isobel G. T. Ross, MA *Aberd.*; Thomas Hall (women), Joyce Youings, BA PhD *Lond.*, FRHistS; Birks Grange (women), Barbara Lillywhite, LLB *Lond.*; Barton Place (women), M. Pauline Callard, BCom *Lond.*

TUTOR TO BRADNINCH HALL (NON-RESIDENT) STUDENTS. D. Jacobs, MA *Camb.*

LAZENBY CHAPLAIN. Rev. R. J. H. Shutt, MA PhD *Durh.*

NORMAN LOCKYER OBSERVATORY. Supt.: D. R. Barber, BSc *Lond.*, FIP.

MEDICAL OFFICERS. G. L. Stumbles, DCU; Mrs. Dorothy Stumbles, MB ChB *Birm.*

## GENERAL INFORMATION

The Univ. of Exeter had its origin in the local demand for a centre for higher educn. in the S.W. of England in the yrs. following the great exhibition of 1851. The successful establt. of a sch. of art in 1851 was followed by the erection in 1865 of a bldg. to house a county museum, library and sch. of art as a memorial to the Prince Consort.

Univ. extension lectures were organized in this bldg., and candidates prepared for South Kensington sci. and arts exams. In 1895 classes were extended and Exeter Tech. and Univ. Extension Coll. was establd., becoming in 1895 the Royal Albert Memorial Coll. The preparation of students for London Univ. external degrees began

in 1901. In 1922 the coll. was reconstituted as the Univ. Coll. of the South West of England, and received its first Treasury grant as a recog. univ. instn. The residential nature of the present univ. was early establ., and there are now 9 halls of residence. In 1955 a royal charter founding the Univ. of Exeter empowered the univ. to incorporate the univ. coll.

**UNIVERSITY PRECINCT.** Accommod. was originally provided in extensions of the Royal Albert Memorial Bldg. in Queen St. In 1906 the univ. was moved to a new bldg. in Gandy St., which is now occupied by the fac. of law, the dept. of extra-mural studies, the psychol. section of the dept. of educn., and the inst. of educn. In 1922 the Streatham estate was acquired, partly by gift of W. H. Reed, former mayor of Exeter. To this site, which now covers 200 acres on the northern side of the city, the univ. is being gradually transferred. Bldgs. already erected incl. the Washington Singer labs. (1931), the Roborough library (1940), the Hatherly biol. labs. (1952), the Maiv Harris chapel (1958) and the Queen's bldg. (1958) housing the facs. of arts and soc. studies and the dept. of geol. Northcote House (admin. depts.), Devonshire House (guild of students) and the univ. refectory were completed and occupied in the summer of 1960.

**CONSTITUTION.** The supreme governing body of the univ. is the court, comprising some 230 reps. of local authorities and organizations, learned bodies, benefactors and local schs., the officers, officials and reps. of staff and grads. The court meets annually to receive reports of council and senate, pass the audited statement of accounts, appoint univ. officers, and amend or repeal statutes. The chief executive body is the council, whose members include the officers of the univ., reps. of court, senate, convocation and local authorities. Academic matters are controlled by the senate, which comprises the profs. and hds. of all teaching depts. and 6 reps. of the non-professorial staff. The bds. of the 4 facs., under the chairmanship of their deans, are responsible to the senate for teaching and exams. within the facs. The deans, elected by general meetings of facs., hold office for periods of 1 to 4 yrs. The chancellor, as chief officer of the univ., presides over court and council. In her absence, a pro-chancellor acts as chairman of these bodies. The vice-chancellor, the chief academic officer, is *ex officio* chairman of senate. The registered grads. of the univ. form convocation, which elects reps. to serve on court and council, and meets annually to discuss and comment on any matters concerning the univ.

**INCOME (1958-59).** £439,205 (Treasury grant, 71.6 per cent.; grants from local authorities, 6 per cent.; fees, 16 per cent.; misc., 6.4 per cent.).

**FACULTIES AND DEANS (1960-61).** *Arts*, Prof. R. Niklaus (French); *law*, Prof. C. F. Parker; *sci.*, Prof. G. K. T. Conn (phys.); *soc. studies*, D. J. O'Connor (philos.).

**LIBRARY.** Roborough library, 125,000 books, incl. some rare editions and early printed books. The univ. is responsible for the admin. of Exeter cathedral library (20,000 vols.) and for the capitular archives, incl. the Exon Domesday and the Exeter Book.

**LABORATORIES.** Bot., cancer, chem., geol., phys., psychol., zool.

**OBSERVATORY.** The Norman Lockyer observatory, Sidmouth, became a constituent part of the univ. in 1948.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', *above*). Gandy St., Exeter (tel.: Exeter 77911). Constituent colls.: univ. dept. of educn. (Prof.—R. D'Aeth, AM *Harv.*, PhD *Camb.*); St. Luke's Coll., Exeter (men) (principal—J. L. Smeall, MA, JP); Rolle Coll., Exmouth (women) (principal—Doris E. L. Spicer, MA BCom).

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** BA, BA in soc. studies, BSc, LLB—3 yrs. No inter. exam. except in fac. of law, where it is taken at end of first yr. of 3-yr. LLB course. For BA, BSc and LLB the final exam. is taken in 2 parts, at end of the 2nd and 3rd yrs., except in the case of the hons. degree in fac. of soc. studies, where pt. 1 is taken at the end of first yr. Hons. degrees may be taken in the following schs.: classics, Engl., French, geog., German, Greek, hist., Latin, maths., philos. theol., law, bot., chem., geol., phys., psychol., zool., econ., econ. hist., govt. & sociol. Combined hons. degrees (2 subjs.) may be taken in a number of schs. in the facs. of arts and soc. studies.

Gen. hons. degrees (2 subjs. and 1 subsid. subj.) may be taken in fac. of sci. Gen. degree in fac. of soc. studies may be awarded with hons.

**HIGHER DEGREES.** MA (arts and soc. studies), MSc, LLM, PhD, DLitt, DSc, LL.D. Grads. of other univs. are admitted to higher degree courses for MA, MSc, LLM and PhD. The master's degree may be taken after 3 terms' study, the PhD after 6 terms' study. The higher doctorates are reserved to Exeter grads. of at least 7 yrs.' standing.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Educn., pt.-time only, 2 yrs.; pub. admin., soc. admin., each 2 yrs. Grad. dipl. in pub. admin., 1 yr.

**CERTIFICATES, ETC.** Postgrad. teacher's cert., testamur in Engl. lang. & lit. for overseas students, each 1 yr.; testamurs of proficiency in French lang. and in German lang.

**OTHER COURSES.** The univ. provides courses for exams. of the Law Soc.

**RESEARCH.** Facilities for res. exist in all depts.

**ALLIANCE.** The univ. has a *jumelage* with the Univ. of Rennes, which provides for visits and exchanges of staff for periods up to 1 yr., and for exchange of res. information.

**STUDY LEAVE.** Applicns. from members of staff are considered individually on their merits.

**FEES.** *Annual composition fees* (covering, where relevant, registration, matric., tuition, exam. and graduation fees, but not sub. for guild of students, caution money, Bradninch Hall sub., or spec. charges for field studies). BA, LLB, £50; BSc, £60; MA, LL.M, MSc, PhD (with lab. facilities), £40; MA, LL.M, MSc, PhD (without lab. facilities), £30; DLitt, LLD, DSc, £30; dipls. in pub. admin. and soc. admin. (full-time), £50 (pt.-time, £15). Teacher's cert., £60 + 5s.; dipl. in educn., £18; testamur in Engl. for overseas students, £50. *Dues.* All full-time students are also required to pay the following: guild of students sub., £5 + 10s. p.a.; caution money, £10. *Note.*—Fees at reduced rate payable by students from Devon, Cornwall, Dorset, Exeter and Plymouth. *Addnl. annual fees for field work:* BA hons. geog., £15; BSc hons. in bot., geog., geol., zool., £15. BSc gen. and gen. hons. in bot., geog., geol., zool., £5; BA hons. hist. special subj. in archæol., £5; BA gen. in archæol. and geog., £5.

**ACADEMIC YEAR.** Oct. to June, 3 terms of 10 wks. each.

**Dept. of EXTRA-MURAL STUDIES** (see also 'Teaching Staff', above), University, Gandy St., Exeter (tel.: Exeter 77911). The dept. provides lecture courses and tutorial classes throughout the counties of Devon and Cornwall, organized by 8 resident tutors, and co-operates in the organization of adult educn. in the region in assocn. with local educn. authorities and the W.E.A. The dept. also supplies civilian lectrs. to armed forces.

**SUMMER SCHOOL.** The univ. organizes a 3-wk. summer sch. in Engl. studies for overseas students annually in Aug.

**ENTRANCE SCHOLARSHIPS.** On the results of an annual entrance scholp. exam. the univ. awards open scholps. (max. value, £80), open exhibitions (max. value, £40) and various closed scholps. Certain of these are recog. by the Ministry of Educn. as qualifying for supplementary state scholps.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**RESIDENCE** (tel.: 77911 unless otherwise indicated; for wardens, see 'Admin. and Other Staff', above). For women (fees: £147-£150): Hope Hall, Prince of Wales Rd., Exeter, 110 students; Lopes Hall, St. German's Rd., Exeter, 125 students; Thomas Hall, Cowley Rd., Exeter, 45 students; Birks Grange, New North Rd., Exeter, 22 students; Barton Place, Wreford's Lane, Exeter, 26 students. For men (fees: £152-£155): Reed Hall, Streatham Dr., Exeter, 71 students; Exeter Hall, Pennsylvania Rd., Exeter, 81 students; Mardon Hall, Streatham Dr., Exeter, 83 students; Crossmead Hall, Dunsford Hill, Exeter (tel.: 54452, warden), 78 students. All students not living at home must reside in one of the halls of residence, as far as accomm. permits.

**APPOINTMENTS.** An appts. organization, under the direction of the academic registrar, advises students on careers and helps them to obtain posts on the completion of their courses.

**STUDENTS' UNION.** The guild of students is the official orgn. of the students of the univ. and membership is compulsory on all full-time students. The subscription covers membership of the athletic union clubs and other student socs affiliated to the guild. The guild council makes rules for the admin. of the guild subject to the approval of the senate, and represents the students of the univ. in relations with the univ. authorities and other bodies.

**GRADUATES' ASSOCIATION.** The Exeter univ. club is an assocn. of former students, and members of the univ. staff. Branch orgns. exist in Exeter, London, Bristol, Plymouth and Birmingham. An annual Easter reunion is held in one of the univ. halls of residence. The club publishes a bulletin.

**PUBLICATIONS.** Univ. *Calendar*, 10s. (Oct.); univ. *Prospectus* (free) (Sept.); *Syllabuses* of courses in arts, law, sci., soc. studies, 1s. each (Oct.); univ. *Gazette* (free) (April, July, Aug., Dec.); *Regns. for Entrance Scholarships* (free) (Aug.); *Annual Report* (free) in Jan.; guild of students' *Handbook* (Oct.).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Imperial Chemical Industries Ltd., £20,000 towards cost of new chem. and phys. bldg.

**RETIREMENTS.** Prof. A. Stuart (geol.).

**RESIGNATIONS.** Dr. D. L. Dineley (geol.), apptd. lectr. in geol., Brist.; Dr. Freda Wolfson (hist.), on marriage; P. A. G. Young, ARIBA (asst. sec.), to private practice.

**DEATHS.** Rev. Dr. S. C. Carpenter (head of dept. of theol., 1946-57); F. T. Howard (lectr. in educn., 1928-36).

**HONORARY DEGREES.** DLitt—Rt. Hon. Isaac Foot; M. Paul Henry, rector, Univ. of Rennes; Ernest Newman. LLD—Sayed Mekki Abbas, exec. sec. of UN Commission for Africa; Rt. Hon. D. Heathcoat Amory, chancellor of the Exchequer; Sir Arthur Reed, member of univ. council; John Hay Whitney, American ambassador; Col. S. J. Worsley, formerly chairman of the external council of London Univ.; Nancy, Viscountess Astor. DSc—Sir Harry Melville, sec. to Cttee. of Privy Council for Scientific and Indust. Res.

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	748	45
Women . .	554	12
	<hr/>	<hr/>
Total .	1302 *	57

Distribution by Faculties. *Arts*, 601 ; *law*, 64 ; *sci.*, 445 ; *soc. studies*, 249. Total : 1359.

*Included in the figures above are :—*

Postgraduate students, 173.

New admissions, 515.

Students from other countries, 129. (Countries from which largest numbers came : Germany, 19 ; U.S.A., 18 ; Nigeria, 12).

DEGREES AWARDED (1958-59). Univ. of Lond. (external) : *Sci.* : BSc (hons.), 2 ; MSc, 1 ; PhD, 2.

Univ. of Exeter : *Arts* : BA (hons.), 116 ; BA (gen.), 11 ; MA, 3. *Law* : LLB, 9. *Sci.* : BSc (hons.), 59 ; BSc (gen.), 30 ; MSc, 2. *Soc. studies* : BA (hons.), 35 ; BA (gen.), 9 ; MA, 1. PhD (all facs.) : 10. *Total number of first degrees awarded*, 271.

DIPLOMAS AWARDED (1958-59). DPA, 15 ; DSA, 5.

CERTIFICATES AWARDED (1958-59). Teacher's cert., 75 ; testamur in Engl. lang. & lit. for overseas students, 17 ; testamur of proficiency in German lang., 1.

\* Including 22 full-time students from other countries registered for 1 or 2 terms only

# UNIVERSITY OF HULL\*

Founded 1954; previously established as University College of Hull, 1927

Postal Address: Hull, England

Telephone: Hull 18960 (6 lines)

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. LORD MIDDLETON, KG, MC, TD, Hon. LLD *Leeds & Hull*, JP

PRO-CHANCELLORS—The Rt. Hon. LORD HOTHAM, CBE; The Rt. Hon. THE EARL OF ANCASTER, TD, MA *Camb.*, JP; H. I. LOTEN, MBE, Hon. LLD, JP

VICE-CHANCELLOR—BRYNMOR JONES, BSc PhD *Wales*, PhD ScD *Camb.*, FRIC

TREASURER—L. H. DOWNS, CBE, MA *Camb.*, MIMechE

PRO-VICE-CHANCELLOR—Professor A. G. DICKENS, MA *Oxon.*, FRHistS

REGISTRAR—W. D. CRAIG, BL *Glas.*

LIBRARIAN—P. A. LARKIN, MA *Oxon.*

## TEACHING STAFF

[†=Part-Time]

### Botany

Robertson, N. F., BSc PhD *Edin.*,  
MA *Camb.* Prof.  
Cromwell, B. T., BSc PhD *Liv.* Reader  
Boatman, D. J., BSc PhD *Lond.*, MA *Dub.* Lectr.  
Friend, J., BSc *Liv.*, PhD *Liv. & Camb.* Lectr.  
Peel, A. J., BSc PhD *Nott.* Asst. Lectr.  
Morgan, D. H., BSc *Sheff.* Asst. Lectr.

### Chemistry

Chapman, N. B., MA PhD *Camb.*, FRIC  
G. F. Grant Prof.  
Baldwin, R. R., MA *Camb.*, PhD *Lond.* Sr. Lectr.  
Kipling, J. J., MA BSc DPhil *Oxon.* Sr. Lectr.  
Gray, G. W., BSc *Glas.*, PhD *Lond.* Sr. Lectr.  
Barker, C. C., BSc PhD *Brist.* Lectr.  
Norris, A. D., MA DPhil *Oxon.*, FRIC Lectr.  
Clarke, K., MSc PhD *Liv.* Lectr.  
Shorter, J., MA BSc DPhil *Oxon.* Lectr.  
Bond, G. C., BSc PhD *Birm.*, FRIC Lectr.  
Hathaway, B. J., BSc *Lond.*, PhD *Nott.* Lectr.  
Stiddard, M. B. H., BSc *Wales*, PhD *Lond.* Lectr.  
Webster, D. E., BSc PhD *Lond.* Asst. Lectr.  
Biggs, J., MA PhD *Camb.* Asst. Lectr.  
Francis, P. G., BSc PhD *R'dg.* Asst. Lectr.  
Bruck, P., BSc PhD *Sheff.* I.C.I. Res. Fellow  
Richmond, A., BA DPhil *Oxon.* Res. Fellow  
Thompson, N. R., BSc *Liv.* Res. Asst.  
Toyne, K. J., BSc *Manc.* Demr.  
Walker, R. W., BSc Demr.

### Classics

Gillies, M. M., MA *Camb.*, PhD *Edin.* Prof.  
Norman, A. F., MA *Oxon.*, PhD *Lond.* Sr. Lectr.  
Chilton, C. W., MA *Camb.* Lectr.  
Ryder, T. T. B., MA PhD *Camb.* Lectr.  
Arnott, W. G., MA *Camb.* Asst. Lectr.

### Economics and Commerce

Wilson, J. S. G., DipCom MA *W.Aust.* Prof.  
Saville, J., BSc(Econ) *Lond.* Sr. Lectr.  
Rotheray, D., MA *Camb.* Lectr.  
Nicholson, R. J., MA *Camb.* (Stats.) Lectr.  
Hiner, O. S., MA *Camb.* Lectr.  
Kemp, T., BSc(Econ) *Lond.* Lectr.  
Maxcy, G. E., BA *Corn.*, MA *Leeds* Lectr.  
Clegg, H. L., BSc(Econ) *Lond.* (Pub. Admin.) Lectr.  
Greenleaf, W. H., BSc(Econ) PhD *Lond.* (Govt.) Lectr.  
Galambos, P., DrRerPol *Vienna*, MA *Lond.* (Stats.) Lectr.  
Evans, E. W., MA PhD *Wales* Lectr.  
Williams, D., BSc(Econ) *Lond.* Lectr.  
Helps, P., BSc(Econ) *Lond.* (Accounting) Lectr.  
Dowse, R. E., BSc(Econ) *Lond.* (Pol. & Govt.) Asst. Lectr.  
Bellamy, Joyce M., BCom *Lond.* Res. Asst.  
Gupta, S., MA *Calc.*, MSc(Econ) *Lond.* Res. Asst.

### Education

Castle, E. B., MA *Oxon.* Prof.  
Graham, Janet B. (Phys. E.) Lectr.

\* Member of the Association of Universities of the British Commonwealth

Lawson, J., MA <i>Manc.</i>	Lectr.
Bradley, J., MA <i>Camb.</i> , MSc <i>Lond.</i>	Lectr.
Bunker, G. A. S., BSc(Econ) <i>Lond.</i>	Lectr.
Garforth, F. W., BA <i>Lond.</i> , MA <i>Camb.</i>	Lectr.
Stern, H. H., MA PhD <i>Lond.</i>	Lectr.
Miles, H. B., MSc <i>Wales</i>	Lectr.
Atkins, S. H., MA PhD <i>Lond.</i>	Lectr.
Dwyer, F. J., BLitt MA <i>Oxon.</i>	Lectr.
Owen, J. W., BSc <i>Wales</i> (Phys. E.)	Lectr.
Sibley, Gwendoline	†Lectr.
Burnett, Margaret	†Lectr.
Crane, Muriel	†Lectr.

### English Language and Literature

Brett, R. L., BA <i>Brist.</i> , BLitt <i>Oxon.</i>	G. F. Grant Prof.
'Espinasse, Mrs. Margaret, BA BLitt <i>Oxon.</i>	Sr. Lectr.
Binns, A. L., BA <i>Manc.</i>	Lectr.
Woolf, Rosemary, BLitt MA <i>Oxon.</i>	Lectr.
Cox, C. B., MA MLitt <i>Camb.</i>	Lectr.
Jones, A. R., BA <i>Nott.</i>	Lectr.
Ross, A. M., MA <i>St.And.</i> , PhD <i>Camb.</i>	Lectr.
Fowler, R. G., BA <i>Lond.</i>	Asst. Lectr.
Palmer, D. J., BA <i>Oxon.</i>	Asst. Lectr.

### French

Rees, G., MA <i>Wales</i> , DU <i>Paris</i>	Prof.
Charlton, D. G., MA <i>Camb.</i> , PhD <i>Lond.</i>	Sr. Lectr.
Pickford, C. E., MA <i>Manc.</i> , Dè <i>SL Paris</i>	Sr. Lectr.
Maguire, Patricia I., MA <i>Glas.</i>	Lectr.
Ginestier, P., Lè <i>SL Dipl'd ÉtSup</i> DU <i>Paris</i>	Lectr.
Clive, H. P., BA PhD <i>Lond.</i>	Lectr.
Welch, D. W., BA <i>Wales</i>	Lectr.
Lawrence, L. D., MA <i>Oxon.</i>	Asst. Lectr.
Poyet, J.-A., Lè <i>SL Clermont-Ferrand</i>	Lecteur

### Geography

Wilkinson, H. R., MA <i>Liv.</i>	Prof.
Brachi, D. P., MBE, MA <i>Camb.</i>	Lectr.
Latham, Lois R., BA <i>Sheff.</i>	Lectr.
de Boer, G., MA <i>Camb.</i>	Lectr.
Appleton, J. H., MA <i>Oxon.</i> , MSc <i>Durh.</i>	Lectr.
Harris, A., MA <i>Lond.</i>	Lectr.
Symes, D. G., BA <i>Oxon.</i>	Asst. Lectr.
Ward, R. C., BA <i>R'dg.</i>	Asst. Lectr.
Lathbury, Alison, BA <i>Camb.</i> , MS <i>Wis.</i>	Res. Asst.

### Geology

Penny, L. F., MA <i>Camb.</i>	Lectr.-in-Charge
Neale, J. W., BSc <i>Manc.</i>	Lectr.
Piasecki, M. A. J., MSc <i>Lond.</i>	Lectr.
Angus, N. S., BSc PhD <i>Belf.</i> , MS N.U.I.	Asst. Lectr.

### German

Baier, C., BA <i>Liv.</i> , DrPhil <i>Tübingen</i>	Hd. of Dept.
.....	Lectr.
Ellis, J. O., BA <i>Manc.</i> , PhD <i>Lond.</i>	Lectr.

Borland, H. H., MA PhD <i>Camb.</i>	(Swedish) Lectr.
Brown, Margaret A. L., MA <i>Edin.</i>	Asst. Lectr.
Lumpi, K.	Lektor
Möller, Birgit M., FilMag <i>Uppsala</i>	(Swedish) Lektor

### Health Visitor's Course

Hutchison, A., MD PhD DPH DPA <i>Glas.</i> , FRFPS <i>Glas</i>	†Lectr.
Reffold, B., MB BS <i>Durh.</i> , DPH	†Lectr.

### History

Dickens, A. G., MA <i>Oxon.</i> , FRHistS	G. F. Grant Prof.
Brooks, F. W., MA <i>Lond.</i> , FRHistS, FSA	Reader
Douie, Decima L., MA <i>Oxon.</i> , PhD <i>Manc.</i> , FRHistS	Sr. Lectr.
Spencer, F., MA PhD <i>Manc.</i>	Lectr.
Davis, R., BSc(Econ) PhD <i>Lond.</i>	Lectr.
Coveney, P. J., MA <i>Camb.</i>	Lectr.
Drus, Ethel, MA <i>Cape T.</i> , FRHistS	Lectr.
Heath, P., BA <i>Lond.</i>	Asst. Lectr.
Coleclough, J. E., MA LLB <i>Camb.</i>	†Lectr.

### Law

Taylor, F. W., LLM <i>Wales</i> , MA <i>Camb.</i>	Prof.
Bevan, H. K., LLB <i>Wales</i>	Lectr.
Davies, S. G., LLB <i>Brist.</i>	Lectr.
Dimopoulos, A., LLB <i>Athens</i> , MA <i>Camb.</i>	Lectr.
Barker, J. M. A., BSc <i>Sheff.</i> , LLB	Lectr.
Hawkins, A. J., LLB	†Lectr.
Mallett, E. C., FCA	†Lectr.
Sibley, Gwendoline	†Lectr.

### Mathematics

Steward, G. C., MA ScD <i>Camb.</i> , DSc <i>Lond.</i>	G. F. Grant Prof.
Parsons, H. W., MA <i>Camb.</i> , PhD <i>Lond.</i>	Lectr.
Hale, V. W. D., MA PhD <i>Camb.</i>	Lectr.
Wallington, J. E., MA PhD <i>Camb.</i>	Lectr.
Cook, I. T., MA <i>Camb.</i> , BSc <i>Lond.</i>	Lectr.
Shaw, R., BA PhD <i>Camb.</i>	Lectr.
Roberts, G. T., BA PhD <i>Camb.</i>	Lectr.
Sankaran, S., MA MSc <i>Madr.</i>	Lectr.
Stone, A. P., MA DPhil <i>Oxon.</i>	Temp. Lectr.
Zarrop, M., MA <i>Lond.</i>	Asst. Lectr.
Kelley, J. C., MA <i>Camb.</i>	Temp. Asst. Lectr.
Morris, I., BSc <i>Wales</i>	Temp. Asst. Lectr.

### Music

Marchant, R. B., MA MusB <i>Camb.</i>	Lectr.-in-Charge
Joubert, J., BMus <i>Durh.</i> , FRAM	Lectr.
Wilks, D. J., BA BMus <i>Durh.</i>	Asst. Lectr.

### Philosophy

Jessop, T. E., OBE, MC, MA <i>Leeds</i> , BLitt <i>Oxon.</i> , Hon. LittD <i>Dub.</i>	Ferens Prof.
White, A. R., BA <i>Dub.</i> , PhD <i>Lond.</i>	Sr. Lectr.
Stern, A. L., Lè <i>SL DPhil Geneva</i>	Lectr.
Kapoor, S. C., BSc <i>Panj.(I.)</i> , MA <i>Delhi</i>	Lectr.



**Physics**

Garlick, G. F. J., PhD ScD <i>Birm.</i> , FIP	Prof.
Jones, J. I., BSc PhD <i>Wales</i> , FIP	Lectr.
Cunliffe, A., BSc PhD <i>Lond.</i> , FIP	Lectr.
Hough, J. M., MA <i>Camb.</i>	Lectr.
Reed, C. E., BSc <i>Durh.</i>	Lectr.
Goodyear, J., BSc PhD <i>Leeds</i>	Lectr.
Duffin, W. J., MA <i>Camb.</i> , PhD <i>Lond.</i>	Lectr.
Bryant, F. J., BSc PhD <i>Birm.</i>	Lectr.
Ballentyne, D. W. G., BSc PhD <i>Lond.</i>	Lectr.
Robertson, I. S., BSc PhD <i>Aberd.</i>	Lectr.
Springford, M., BSc <i>Durh.</i>	Asst. Lectr.
Jones, M. N., BSc <i>Wales</i>	Asst. Lectr.
Ray, B., MSc <i>Nott.</i>	Asst. Lectr.

**Psychology**

Westby, G., MA <i>Oxon.</i>	Hd. of Dept.
Hebron, Mrs. Miriam E., MA PhD <i>Lond.</i>	Lectr.
Royse, A. B., MSc <i>Manc.</i>	Lectr.
M'Comisky, J. G., MA BEd <i>Belf.</i>	Lectr.
Howarth, C. I., MA DPhil <i>Oxon.</i>	Lectr.
Mathews, W. A., BA <i>Lond.</i>	Asst. Lectr.
Bickford, J. A. R., DPM <i>Brist.</i>	†Lectr.
Gibbins, K., BA	Res. Asst.

**Social Studies**

Drinkwater, R. W., MA <i>Camb.</i>	Hd. of Dept.
Collins, Mrs. Frances D. O., Dipl Psychiatric Social Work <i>Edin.</i>	Lectr.
Worsley, P. M., BA <i>Camb.</i> , MA(Econ) <i>Manc.</i> , PhD <i>A.N.U.</i>	Lectr.
Horobin, G. W., BSc(Econ) <i>Lond.</i>	Lectr.
Dellar, H. J., BA	Lectr.
Chester, R., BSc <i>S'ton.</i>	Asst. Lectr.

**Statistics**, see Econ.

**Swedish**, see German

**Theology**

Tinsley, Rev. E. J., MA BD <i>Durh.</i>	Lectr.-in-Charge
Thompson, Rev. P. J., MA <i>Oxon.</i>	Lectr.
Atkinson, Rev. J., MA MLitt <i>Durh.</i> , DrTheol <i>Mün.</i>	Lectr.
Fussell, Mary, BA <i>Birm.</i>	Asst. Lectr.
Richardson, Rev. W., MA BD <i>Oxon.</i>	†Lectr.

**Zoology**

'Espinasse, P. G., MA <i>Oxon.</i>	Prof.
Trueman, E. R., BSc <i>Glas.</i>	Sr. Lectr.
Nowell, N. W., BSc <i>Liv.</i> , PhD <i>Lond.</i>	Lectr.
Sudd, J. H., MA <i>Camb.</i> , PhD <i>Lond.</i>	Lectr.
Williams, I. C., BSc PhD <i>Wales</i>	Lectr.
Lance, Joan, BSc PhD <i>S'ton.</i>	Asst. Lectr.

Manning, Margaret J., BSc PhD *Brist.*

Asst. Lectr.

**INSTITUTE OF EDUCATION**

Castle, E. B., MA <i>Oxon.</i>	Prof., Dir.
James, I. T., MA <i>Camb.</i> , BSc <i>Lond.</i>	Sec.
Barnford, T. W., BSc PhD MA <i>Lond.</i>	Sr. Tutor
Fraser, W. R., MA <i>Glas.</i>	Tutor
Wilks, J., BA <i>Brist.</i>	Tutor
Freeman, C. B., MA <i>Oxon.</i> , FLA	Librarian

**ADULT EDUCATION**

Styler, W. E., MA *Birm.* Dir.

**Adult Education in H.M. Forces (Committee for)**

Sec. : Mayfield, Prof. G. E. T., BA *Lond.*  
Burrows, W. R., MA *Oxon.* Staff Lectr.

**Art, History of**

Easton, M. F., MA *Oxon.*, PhD *Leeds* Staff Tutor

**Drama**

Crane, Muriel, MA *Edin.* †Tutor

**Economics**

Barmby, J. E., BCom *Birm.* Staff Tutor

**History**

Gillett, E., BA *Lond.* Staff Tutor  
Marsden, A., BA *Wales* Staff Tutor  
Connell-Smith, G. E., BA PhD *Lond.*, FRHistS Staff Tutor

**History, Local**

MacMahon, K. A., MA *Lond.*, FRHistS Staff Tutor

**Literature and Drama**

Marckwald, W. M. Staff Tutor  
Styan, J. L., MA *Camb.* Staff Tutor  
James, W. L. G., BA *Oxon.* Staff Tutor  
Bradbury, M. S., MA *Lond.* Staff Tutor

**Music**

Whitworth, L. Joan Staff Tutor

**Philosophy and Psychology**

Rickman, H. P., MA *Lond.*, DPhil *Oxon.* Staff Tutor

**Theology**

Atkinson, Rev. J., MA MLitt *Durh.*, DrTheol *Mün.* Staff Tutor

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrars : R. B. Shepherd, BSc *Lond.*  
(Academic), D. F. Rex, BA *Brist.* Bldgs. Officer :  
D. Campbell, MA *Camb.* Admin. Asst. : . . . . .

Accountant : B. Armitage. Asst. Accountant :  
J. B. Wood, FCA. Dep. Librarian : A. C. Wood,  
MA *Glas.* Sub-Librarians : J. Farrell, MA

*Camb.*, P. Sheldon, BA *Lon.*, FLA. Asst. Librarians: N. W. Guilding, MA *Camb.*, Mary Fovargue, BA *Manc.*, Maevie M. Brennan, BA *Lon.*. Med. Officer: R. Raines, MB ChB *Leeds*. Sec., Appts. Bd.: A. A. Don, BSc(Econ) *Lon.*. Lodgings Officer: Janet Carpenter, MA *Oxon.* Admin. Asst., Dept. of Adult Educn.: M. Stephanie C. James, MA *Camb.* Catering

Officer: W. R. Newlove. Clerk of Works: F. G. Blanchard.

WARDENS OF HALLS OF RESIDENCE. A. J. Treherne, BA *Liv.* (Ferens Hall); P. J. Coveney, MA *Camb.* (Needler Hall); Eva I. Pinthus, BA *Birm.* (Cleminson Hall); Jane G. Dow, MA *Edin.* (Thwaite Hall).

## GENERAL INFORMATION

The Univ. Coll. of Hull, incorporated in 1927 and opened in 1928, was founded through the generosity of the Rt. Hon. Thomas Robinson Ferens, High Steward of Hull and a leading industrialist in the city, who in 1925 donated £250,000 to endow a univ. coll. This was followed by grants from the corp. of Kingston upon Hull who gave £150,000 towards the cost of bldgs. and equipment and also an annual grant towards maintenance; and from another industrialist, Mr. G. F. Grant, who donated £100,000. In 1945 it was recognized by the Univ. Grants Cttee. for state grants and in 1954 was merged in the Univ. of Hull on the grant of a royal charter.

**CONSTITUTION.** The supreme governing body of the univ. is the court, presided over by the chancellor and consisting of about 280 members rep. of educnl. bodies, local authorities, parliament, benefactors, churches, learned socs., professional bodies, comm. and industry. The executive body is the council, which consists of academic and lay members under the chairmanship of one of the pro-chancellors. The academic authority is the senate, presided over by the vice-chancellor, and consisting of all profs. and hds. of depts. of the univ. and 4 elected members of the non-professorial teaching staff. The fac. bds. are responsible under the senate for the teaching and exams. within the facs.

**INCOME (1959-60).** Total income, £581,832 (Treasury grant, 75.7 per cent.; local authorities' grants, 2.8 per cent.; fees, 14.7 per cent.; endowments, 5.8 per cent.; other sources, 1 per cent.).

**FACULTIES AND DEANS.** *Arts*, Prof. R. L. Brett (Engl.); *sci.*, Prof. N. B. Chapman (chem.); *soc. scis. & law*, Prof. H. R. Wilkinson (geog.).

**UNIVERSITY PRECINCT.** The main site of the univ. is in Cottingham Rd., about 2½ miles from the centre of the city, and includes teaching and res. accomm. for all depts. except educn., maths. and adult educn., which occupy houses adjacent to the main site. The original bldgs. for arts and sci. were erected about 1928. Permanent bldgs. erected since the war include a chem. block, students' union and refectory, boiler house, changing rooms, extensions to halls of residence, and a new hall of residence completed in 1957. Extensions for chem., a new bldg. for bot. and zool. and a new bldg. for phys. are now in hand. The univ. has ample space on its present site

for all foreseeable development in teaching and res. accomm. The univ. halls of residence are all situated in the village of Cottingham, some 2-3 miles from the univ. The univ. coll. was developed on a fully residential basis, and although this is no longer possible with increasing nos. in the univ., it is hoped to continue to develop as a residential univ. in the future. The sites in Cottingham have ample space for bldg. addnl. halls, and new halls and extensions to the present halls are planned in the next few yrs. A new library bldg. was opened in Oct. 1959. Future plans on the main site include a new hall of residence for postgrads., an exam. hall and an arts bldg.

**LIBRARY.** Over 130,000 vols.; includes material for advanced res. More than 550 current issues of learned periodicals and scientific proceedings.

**LABORATORIES, ETC.** Bot., chem. (org., phys. & inorg.), geog., geol., phys., psychol., zool.; teacher trg. lab.; bot. garden; bot. field station, Spurn Head; coastal res. unit (geog.), Spurn Head; marine biol. lab. (zool.), Scarborough.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** BA—joint and special; BSc—pass, joint and special; LLB—hons.; BSc(Econ)—hons. Degree courses ordinarily cover 3 yrs. In final exam. for BA spec., candidates are examined in one main subj., and for the jt. degree in 2 main subjs. Subjs. offered—classics, Engl., French, geog., German, govt., Greek (with Latin), hist., Latin (with Greek), law, maths., music, philos., psychol., soc. studies, sociol., Swedish, theol. In final exam. for BSc spec., candidates are examined in one main subj., and for the jt. degree in 2 main subjs. Subjs. offered—bot., chem., geog., geol., maths., philos., phys., psychol., zool. Under certain conditions candidates for the BA spec. (geog. & psychol. only) and the BSc spec. and jt. degrees may be allowed to transfer to a course for the BA or BSc pass degree. Hons. can be obtained in either jt. or spec. courses for BA and BSc. Candidates at final exam. may be examined orally or by practical exam. in addition to written papers. The dept. of law prepares candidates for the bar and solicitors' exams. as well as for the univ.'s degrees. Candidates for BSc(Econ) take a qualifying exam. after 1 yr., and must ordinarily pass in this before proceeding to the 2nd yr. Candidates for final exam. for LLB and BSc(Econ)

may be examined orally in addition to written papers.

**HIGHER DEGREES.** BD, MA, MSc, LL.M, MSc(Econ), MEd, PhD, DLitt, DSc, DD. BD and masters' degrees—2 yrs., one of which must be full-time or 3 yrs. pt.-time; PhD—2 or 3 yrs., depending on qualifs.; candidates for BD must pass or be exempted from qualifying exam. in 7 papers before submitting thesis. For MA (except maths.), MSc, LL.M, MSc(Econ), MEd a thesis must be submitted; written and oral exam. may also be required. MA in maths. may be by thesis or written exam. PhD is taken by thesis and oral exam. DLitt, DSc and DD awarded on published work. All higher degrees, except higher doctorates, open to grads. of other univs.—higher doctorates (except as honorary degrees) open only to Hull grads.

Any degree of the univ. may be awarded as an honorary degree.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Pub. admin. (pt.-time)—3 yrs.; advanced dipl. in educn. (pt.-time)—2 yrs.; soc. studies—2 yrs. (may be 1 yr. for grads.).

**CERTIFICATES.** Further study in div., Swedish (pt.-time)—not less than 2 yrs.; grad. cert. in educn.—1 yr.

**OTHER COURSES.** Courses (1 yr.) for health visitor's cert. of Royal Soc. for Promotion of Health.

**RESEARCH.** Facilities for res. in all depts. Res. work by staff members recorded in univ. *Annual Report*.

**ALLIANCES.** The univ. has an arrangement with the Univ. of Kiel for the exchange of students for short periods. Since 1953 the univ. has had a scheme for the exchange of sr. teaching staff with the Univ. of Rochester, whereby a yr. can be spent in Rochester by Hull staff and a similar period in Hull by members of the Rochester staff.

**STUDY LEAVE.** Each applicn. is considered on its merits.

**FEES.** *Annual composition fees* (covering, where relevant, registration, tuition, exam. (1st entry), graduation, convocation and membership of students' union). Bachelor's degrees: BA (except geog. and psychol.), BSc pure sci. (maths. and philos.), BSc(Econ), LL.B, £56; BA (geog. and psychol.), BSc pure sci. (except maths. and philos.), £66. Higher degrees: MA, LL.M, MSc(Econ), BD, MEd, PhD (arts), £36; MSc, PhD (sci.), £46; DLitt, DSc, LL.D, DD, £30. Dipls.: advanced dipl. in educn., £20; pub. admin. (pt.-time), £10: 10s.; soc. studies, £56. Certs.: educn., £75; further study in div., £4; health visitor's, £35: 10s. Other courses: articulated clerks, £25.

**ACADEMIC YEAR.** Oct.—June (3 terms of 10 weeks each).

**INSTITUTE OF EDUCATION** (*see also* 'Teaching Staff,' *above*). *Constituent colls.*: univ. dept. of educn. (dir.: E. B. Castle, MA Oxon.); Endsleigh Trg. Coll., Hull (principal: Mary Guy, MA Oxon.); Kingston upon Hull Trg. Coll. (principal: C. Bibby, MA Camb., MSc *Litt.*, PhD *Lond.*). The inst., inaugurated in 1948, was founded to establish closer relationships with institutions in Hull and the neighbouring area specifically concerned with the trg. of teachers. Students of the inst. prepare for the grad. cert. in educn. or the cert. in educn. Other major activities of the inst. are the organization and provision of refresher and advanced courses for practising teachers, and the planning of educn. investigation and res. The inst. bldg. contains a common room, an exhibition room and a library of 20,000 books. Annual journal: *Studies in Education*.

**ADULT EDUCATION** (*see also* 'Teaching Staff,' *above*). The dept. of adult educn. provides courses in a wide range of non-vocational subjs. for adults in Hull and the E. Riding, pts. of the N. Riding and Lincolnshire (Lindsey). It also arranges short residential courses throughout the yr. for members of H.M. forces. The panel of external lectrs. includes members of the univ. staff and other recognized teachers.

**SCHOLARSHIPS AND EXHIBITIONS.** The scholps exam. has been discontinued.

**POSTGRADUATE AWARDS** open to grads. of other univs.: *see p.* 825.

**APPOINTMENTS BOARD.** The bd. advises students on the choice of careers and assists them in obtaining appointments on the completion of their courses.

**RESIDENCE.** (For wardens, *see* 'Admin. and Other Staff,' *above*). All full-time students must ordinarily live in one of the halls of residence or in approved lodgings unless living at home or with relatives. Halls: for women—Cleminson Hall, Cottingham, Yorks., 68 places (tel.: Cottingham 47326); Thwaite Hall, Cottingham, Yorks., 103 places (tel.: Cottingham 47410). For men—Ferens Hall (and huttet annexe), Harland Way, Cottingham, Yorks., 218 places (tel.: Cottingham 47396); Needler Hall, Cottingham, Yorks., 68 places (tel.: Cottingham 47181). Fees (1960–61): women, £136; men, £141; reduction of £6 for shared rooms.

**UNIVERSITY AIR SQUADRON.** The squadron, a regular unit of the R.A.F., commanded by Sqd. Leader A. B. Musgrave, is affiliated to the univ.; membership is open to students who expect to be resident at univ. for a min. of 2 yrs., and affords an opportunity for pilot and officer training at the squadron's airfield at Brough.

**UNIVERSITY HEALTH SERVICE.** The univ. has a student health service under a full-time med. officer. The service covers compulsory med. examination for new students, emergency attention as necessary, annual X-ray exam., etc. It

also includes a sick bay at Ferens Hall with 14 beds available for students in hall or lodgings. A new health centre & sick bay is to be built near the main site.

**STUDENTS' UNION.** The students' union is the official orgn. to which all full-time students belong. Through cttees. it arranges soc. and athletic events. The students' union bldg. contains common rooms, offices, and a refectory adjoins. The union co-operates with the univ. convocation in arranging an annual meeting.

**PUBLICATIONS.** *Calendar* (Sept.) 7s. 6d.; *Gazette* (once a term); pamphlets (free): *General Information*; *Regns. for BA*; *Regns. for BSc*;

*Regns. for LLB and BSc(Econ)*; *Regns. for Higher Degrees*; *Regns. for Dipls. & Certs.*; *Dept. of Educn.*; *Annual Report* (Jan.) free. *Yorkshire Bulletin of Social and Economic Research* (half-yrly.) (jtly. with depts. of econ. of Leeds and Sheffield). *Studies in Educn. Torch* (mag. of students' union) (3 times p.a.).

**UNIVERSITY BOOKSHOP.** A bookshop is maintained on the univ. site by a local firm.

**PUBLICATIONS COMMITTEE.** This cttee. of senate exists to arrange and assist publicn. in co-operation with the Oxford Univ. Press of works of an academic nature by members of staff.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: library; conversion of accomm. for econ., social studies, and sr. common room.

**RETIREMENT.** Prof. R. D'O. Good (bot.).

**RESIGNATIONS.** E. Blohmé (Swedish), apptd. to post in Sweden; K. R. Bull (phys. educn.), apptd. H.M. inspector of schools; Dr. J. N. R. Grainger (zool.), apptd. to chair of zool. & compar. anat., Dub.; H. R. Hoggart (adult educn.), apptd. sr. lectr. in Engl., Leic.; N. B. Johnson (phys.), apptd. asst. prof., N. Dakota; J. G. Landels (classics), apptd. lectr., R'dg.; Dr. J. A. H. Shepperd (maths.), apptd. lectr., Manchester Coll. of Sci. & Technol.; R. L. Smyth (econ.), apptd. lectr., N. Staffs.

**HONORARY DEGREES.** *DLitt*—Sir Maurice Bowra, warden, Wadham Coll., Oxford. *DSc*—Dr. Mary Cartwright, mistress of Girton Coll., Camb. *LLD*—P. D. Priestman, industrialist, sr. member univ. council. *MA*—L. R. Foreman, architect to univ.

**Distribution by Faculties.** *Arts*, 612; *sci.*, 623; *soc. scis. & law*, 388. Total: 1623.

*Included in the figures above are* :—

Postgraduate students, 223.

New admissions, 572.

Students from other countries, 121. (Countries from which largest numbers came: Nigeria, 48; Ghana, 17).

**DEGREES AWARDED (1958–59).** *Arts*: BA, 107 MA, 2; MEd, 2. *Sci.*: BSc, 91; MSc, 4 PhD, 7. *Soc. scis. & law*: BA, 51; LLB, 24 BSc(Econ), 39. Total number of first degrees awarded, 312.

**DIPLOMAS AWARDED (1958–59).** Adv. dipl. in educn., 9; pub. admin., 4; sister tutor's, 9; soc. studies, 7.

**CERTIFICATES AWARDED (1958–59).** Grad. cert. in educn., 105; health visitor's, 9.

## Statistics

### STUDENT NUMBERS, 1959–60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1117	26
Women . . .	460	20
Total	1577	46

# UNIVERSITY OF LEEDS\*

Founded 1904; previously established 1884, by amalgamation of the Yorkshire College (1874)  
with the Leeds School of Medicine (1831)

Postal Address: Leeds 2, England

Telephone (Registrar): Leeds 31751

VISITOR—H.M. THE QUEEN

CHANCELLOR—H.R.H. THE PRINCESS ROYAL, CI, GCVO, GBE, Hon. LLD *Leeds, Sheff., Camb., S. And., Manc., Hull, McG. & Laval*, Hon. DCL *Oxon.*

PRO-CHANCELLOR—Brigadier J. N. TETLEY, DSO, TD, Hon. LLD

VICE-CHANCELLOR—Sir CHARLES R. MORRIS, MA *Oxon.*, Hon. LLD *Manc.*, Hon. DLitt *Syd.*

PRO-VICE-CHANCELLOR—Professor A. DURWARD, MD *N.Z.*

TREASURER—The Rt. Hon. THE EARL OF FEVERSHAM, DSO

REGISTRAR—J. V. LOACH, BSc PhD *Birm.*, FRIC

BURBAR—E. WILLIAMSON, TD, BSc(Econ) *Lond.*

LIBRARIAN—B. S. PAGE, MA *Birm.*

## TEACHING STAFF

[† = Part-Time]

### Agriculture, see below

### Anatomy

Durward, A., MD <i>N.Z.</i>	Prof.
Boyd, G. I., MD, FRCSEd	Sr. Lectr.
Walls, W. K. J., MB ChB	Sr. Lectr.
Sharp, J. A., MB ChB	Lectr.
Burwell, R. G., BSc MD, FRCS	Lectr.
Farrington, G. H., MB ChB	Demr.
Foggitt, P., MB ChB	Demr.
Kershaw, W. W., MB ChB	Demr.
London, D., MB ChB	Demr.
Agar, H., MB BS <i>Lond.</i> , BSc MB ChB, FRCS, FRCOG	Hon. Demr.

Kenny, A. J., MB BS *Lond.*, PhD *Camb.* Lectr  
Burch, Mrs. Jane E., BA PhD †Lectr

### Biomolecular Structure

Astbury, W. T., MA ScD <i>Camb.</i> , Hon. DSc <i>Stras.</i> , FIP, FRS	Prof
MacArthur, J., MA BSc PhD <i>Glas.</i>	Reade
Rudall, K. M., MSc <i>N.Z.</i> , DSc PhD	Reade
Pautard, F. G. E., MSc <i>Birm.</i> , PhD	Lectr
Beighton, E., BSc PhD	Res. Asst
Parker, K. D., BA <i>Camb.</i> , PhD	Res. Asst
Millard, A. (Elect. Microscope)	Res. Asst
Graham, G. N., BSc PhD	Res. Asst

### Botany

Manton, Irene, BA ScD PhD <i>Camb.</i> , Hon. DSc <i>McG.</i>	Prof
Preston, R. D., DSc PhD, FIP, FRS (Plant Biophys.)	Prof
Sledge, W. A., BSc PhD	Sr. Lectr
Robinson, Mrs. Edith, BSc <i>Durh.</i> , PhD	Lectr
Wesley, A., BSc <i>Lond.</i> , FGS	Lectr
Frei, Eva, DrScNat <i>Zür.</i>	Lectr
Lovis, J. D., BSc <i>Lond.</i> , PhD	Lectr
Bartley, D. D., BSc PhD <i>Wales</i>	Lectr
Jennings, D. H., BA <i>Camb.</i> , MA DPhil <i>Oxon.</i>	Lectr
Leedale, C. F., BSc PhD <i>Lond.</i>	Lectr

Chemistry, Inorganic and Structural, see  
also Technology—Colour Chem. Prof.

### Applied Science, see Technology

### Architecture

Jordan, R. F. Hoffman Wood Prof.

### Biochemistry

Happold, F. C., PhD DSc <i>Manc.</i>	Prof.
Dagley, S., MA BSc <i>Oxon.</i> , DSc <i>Lond.</i> , FRIC	
(Physico-Chem. Aspects of B.) Reader	
Kilby, B. A., MA PhD <i>Camb.</i>	Sr. Lectr.
Chattaway, F. W., MSc PhD <i>Lond.</i>	Sr. Lectr.
Hullin, R. P., MSc PhD <i>Wales</i> , FRIC	Lectr.
Bowen, T. J., MA BSc <i>Oxon.</i>	Lectr.
Wild, D. G., MA DPhil <i>Oxon.</i>	Lectr.

Member of the Association of Universities of the British Commonwealth

Hartshorne, N. H., MC, MSc *Birm.*,  
PhD *Lond.*, FRIC (Chem. Micros.) Reader  
Bradley, R. S., MA ScD *Camb.*, FRIC Reader  
Cruickshank, D. W. J., MA *Camb.*,  
BSc(Eng) *Lond.*, PhD

(Mathl. Chem.) Reader  
Truter, Mrs. Mary R., BSc PhD *Lond.* Reader  
Garrick, F. J., MA *Oxon.* Sr. Lectr.  
Pringle, G. E., MA PhD *Camb.* Lectr.  
Smith, J. A. S., MA DPhil *Oxon.* Lectr.  
Robertson, J. H., BSc PhD *Edin.*  
(Mathl. Chem.) Lectr.  
Munro, D. E., MA DPhil *Oxon.* Lectr.  
..... Lectr.

### Chemistry, Organic

Lythgoe, B., MA *Camb.*, PhD *Manc.*, FRS Prof.  
Wightman, W. A., MA *Oxon.*, FRIC  
Sr. Lectr., Supt. of Chem. Labs.  
Rothstein, E., PhD DSc *Lond.* Sr. Lectr.  
Briscoe, P. A., BSc *Brist.*, PhD, FRIC Sr. Lectr.  
Austin, A. T., MSc *Melb.*, PhD *Lond.* Lectr.  
Trippett, S., BA PhD *Camb.* Lectr.  
Saxton, J. E., MA BSc DPhil *Oxon.* Lectr.  
Rigby, W., BSc *Lond.*, PhD *Lond. & Leeds*  
Lectr.  
Walton, A. W., BSc Dep. Supt. of Chem. Labs.  
Thomas, A. F., BSc MA DPhil *Oxon.* Lectr.

### Chemistry, Physical

Dainton, F. S., MA *Oxon.*, ScD *Camb.*,  
FRIC, FRS  
Prof., Chairman of Chem. Depts.  
Gray, P., MA PhD *Camb.* Reader  
Smith, G. F., PhD *Wales & Camb.* Sr. Lectr.  
Belton, J. W., PhD DSc *Liv.* Sr. Lectr.  
Caldin, E. F., MA DPhil *Oxon.* Sr. Lectr.  
Bunn, D., BSc PhD Lectr.  
Carson, A. S., MSc *Belf.*, PhD *Manc.* Lectr.  
Collinson, E., MA PhD *Camb.* Lectr.  
Ivin, K. J., BSc *Lond.*, MA PhD *Camb.* Lectr.  
..... (Radiochem.) Lectr.  
Ayscough, P. B., MA PhD *Camb.* Lectr.  
Pedley, J. B., MSc *Manc.* Brotherton Res. Lectr.

### Classics: Greek

Davison, J. A., TD, MA *Oxon.* Prof.  
Parry, Miss Olwen A., MA *Camb.*, BA Lectr.  
Rowe, K. R., MA *Camb.* Lectr.

### Classics: Latin

Wood, E. J., MA *Aberd. & Camb.* Prof.  
Binyon, D. E. F., MA *Oxon.* Sr. Lectr.  
Martin, R. H., MA *Camb.*, BA  
(Classics) Sr. Lectr.  
Hartley, B. R., MA *Camb.*, FSA  
(Romano-Brit. Archæol.) Lectr.  
Harrison, E. L., BA *Manc.*, BLitt *Oxon.*  
(Classics) Lectr.  
Earl, D. C., MA PhD *Camb.* (Classics) Lectr.  
Gottschalk, H. B., MA PhD *Camb.*  
(Classics) Lectr.

### Commerce, see Econ.

### Dentistry, see below

### Economics and Commerce

Brown, A. J., MA DPhil *Oxon.* Prof., Hd. of Dept.  
Beresford, M. W., MA *Camb.* (Econ. Hist.) Prof.  
Robertson, D. J., MA *Glas.*  
(Indust. Relns.) Montague Burton Prof.  
Sargan, J. D., MA *Camb.* Reader  
Hare, A. E. C., MA *Camb.*, PhD *Lond.*  
Sr. Lectr.  
Hillmann, H. C., MA *St. And.* Sr. Lectr.  
Sheard, P. M., BA *Oxon.* (Accty.) Sr. Lectr.  
Newlyn, W. T., BSc(Econ) *Lond.* Sr. Lectr.  
Bellamy, R., MA *Oxon.* Lectr.  
Speight, H., BA *Lond.* Lectr.  
Rainnie, G. F., MA *Aberd.* Lectr.  
Whitaker, F. P. G., MA *Oxon.*, SM *M.I.T.*  
(Indust. Management) Lectr.  
Sigsworth, E. M., BA PhD  
(Econ. Hist.) Lectr.  
Williams, J. E., MA PhD *Sheff.*  
(Econ. Hist.) Lectr.  
Snowball, S., FSAA (Accty.) †Lectr.  
Brothwell, J. F., BA *Nott.* Lectr.  
Lowe, E. A., BSc(Econ) *Lond.*  
(Management Acctg.) Lectr.  
Allen, V. L., BSc(Econ) PhD *Lond.* Lectr.  
Wilkinson, R. K., BA Asst. Lectr.

### Education

Walsh, W., MA *Camb. & Lond.* Prof., Hd. of Dept.  
..... Prof., Dir. of Inst. of Educn.  
Boultonwood, Myrtle E. A., MA *Lond.* Sr. Lectr.  
Ottaway, A. K. C., MA BSc *Lond.* Sr. Lectr.  
Bosworth, Eugenie M., MA *Oxon.* Lectr.  
Burns, D. G., MA *Birm.*, BA *Lond.*, PhD Lectr.  
Martin, Audrey J. Lectr.  
Wallbank, S. Annie, BSc *Lond.* Lectr.  
Laing, A., MA EdB *Aberd.* Lectr.  
Tate, W. E., BLitt *Oxon.*, FSA Lectr.  
Cruickshank, Mrs. Marjorie A., BA *Manc.*,  
MA *Lond.*, PhD Lectr.  
Thompson, W. B., BA *Manc.* Lectr.  
Hewitt, M. Sheila, BSc *Lond.* Lectr.  
Stevens, R. T. H., MA MLitt *Camb.* Lectr.  
Wise, A., Dipl in Dramatic Art *Lond.*  
(Speech Educn.) Lectr.  
Gosden, P. H., MA *Camb.*, PhD *Lond.* Lectr.  
Layton, D., MA *Camb.*, MSc *Lond.* Lectr.

### Engineering, see Technology

### English Language and Mediæval English Literature

Orton, H., BLitt MA *Oxon.* Prof.  
Doyle-Davidson, W. A. G., BA *Lond.* Sr. Lectr.  
Taylor, A. R., MA *Manc.*  
Sr. Lectr., Supervisor of Icelandic Studies  
Thomson, R. L., BLitt *Glas.*, MA Lectr.  
Ellis, S., MA Lectr.  
Davenport, W. A., MA *Lond.* Asst. Lectr.

**English Literature**

Jeffares, A. N., MA PhD *Dub.*, MA DPhil *Oxon.* Prof., Hd. of Dept.  
 Wilson Knight, G., MA *Oxon.*, FRSL Prof.  
 Grant, W. D. B., MA DPhil *Oxon.* (American Lit.) Prof.  
 Jefferson, D. W., BLitt *Oxon.*, BA Sr. Lectr.  
 Kettle, A. C., MA PhD *Camb.* Sr. Lectr.  
 Creedy, A. J., BA *Lond.*, MA *Camb.* Lectr.  
 Over, G. A., BA Lectr.  
 Mann, J. P., BA *Sheff.* Lectr.  
 Hill, G. W., MA *Oxon.* Lectr.  
 Matthews, G. M., MA BLitt *Oxon.* Lectr.  
 Barber, C. L., MA *Camb.* Lectr.  
 Millgate, M. H., BA *Camb.* Lectr.  
 Sanderson, F. S., MA *Edin.* (Folk Life) Lectr.

**Fine Art**

Bell, Q. C. S., MA *Durh.* Sr. Lectr., Hd. of Dept.  
 Noach, A., DLitt&Phil *Amst.* Lectr.  
 Cameron, E., BA *Durh.* Asst. Lectr.

**French Language and Literature**

Clapton, G. T., MA *Sheff.* Prof., Hd. of Dept.  
 Ullmann, S., PhD *Bud.*, DLitt *Glas.* (Romance Philol.) Prof.  
 Benn, T. V., BA PhD Sr. Lectr.  
 Hainsworth, G., DU*Paris*, MA Sr. Lectr.  
 Coe, R. N. C., MA *Oxon.*, PhD Lectr.  
 Ireland, G. W., MA *Edin.* Lectr.  
 Ireson, J. C., MA *Lond.* Lectr.  
 Rothwell, W., MA *Oxon.*, DU*Paris* Lectr.  
 Crews, Mrs. Cynthia M., MA *Camb.*, PhD *Lond.* Lectr.  
 Thyss, Marie-Louise, Lès*L. Paris* Lectr.  
 Dryhurst, J., BA *Liv.* Asst. Lectr.  
 Hiddleston, J. A., MA *Edin.* Asst. Lectr.  
 4 Lecteurs/Lectrices

**Geography**

Dickinson, R. E., PhD *Lond.*, MA Prof.  
 Fowler, F. J., BA PhD Sr. Lectr., Sub-Dean, Fac. of Arts  
 Kirk, M., MA Lectr.  
 Jones, G. R. J., MA *Wales* Lectr.  
 Leeming, F. A., BA *Camb.* Lectr.  
 Eyre, S. R., BSc *Lond.*, PhD *Sheff.* Lectr.  
 Palmer, J., BA *Camb.* Lectr.  
 Dickinson, G. C., MA *Camb.* Lectr.  
 Thompson, I. B., BA *Durh.*, MA *Indiana* Asst. Lectr.

**Geology**

Kennedy, W. Q., DSc *Glas.*, FRs Prof., Hd. of Dept. & Dir., Inst. of African Geol.  
 Hemingway, J. E., BSc PhD Sr. Lectr.  
 Rayner, Dorothy H., MA PhD *Camb.* Lectr.  
 Hartley, J., BSc Lectr.  
 Turner, J. S., MSc *Lond.*, FGS (Palæontol.) Lectr.  
 Harris, P. G., MSc *N.Z.*, PhD (Geochem.) Lectr.  
 Gregory, W. C., BSc *Lond.* Lectr.

Gaskin, A. R. J., MA BSc *Oxon.*, FGS Lectr.  
 Wyllie, P. J., BSc PhD *St.And.* (Exper. Petrol.) Lectr.

Oppenheimer Geological Fellows  
 Von Knorring, O., MSc *Helsinki*, PhD  
 Clifford, T. N., BSc PhD

**German Language and Literature**

Gillies, A., MA *Sheff.*, DrPhil *Gött.* Prof.  
 Wilkie, J. R., MA *Aberd.*, BA *Camb.* Lectr.  
 Boulby, M., MA *Camb.*, PhD Lectr.  
 Brebner, Lilius W., MA *Aberd.* Lectr.  
 Hargreaves, R., BA Asst. Lectr.  
 1 Lektorin

**History**

Le Patourel, J., MA DPhil *Oxon.* (Mediæv. H.) Prof., Jt. Hd. of Dept.  
 Briggs, A., MA *Oxon. & Camb.*, BSc(Econ) *Lond.*, FRHistS (Mod. H.) Prof., Jt. Hd. of Dept.  
 Richardson, G. W., MA *Lond.* (Anc. H.) Sr. Lectr.  
 Woolrych, A. H., BLitt MA *Oxon.* (Mod. H.) Sr. Lectr.  
 Cox, J. W., BA (Mediæv. H.) Lectr.  
 Jones, P. J., MA DPhil *Oxon.* (Mediæv. H.) Lectr.  
 Taylor, J., MA *Oxon.* (Mediæv. H.) Lectr.  
 Hutt, M. G., MA BLitt *Oxon.* (Mod. H.) Lectr.  
 Forster, G. C. F., BA (Mod. H.) Lectr.  
 Read, D., BLitt MA *Oxon.* (Mod. H.) Lectr.  
 Rimmer, W. G., MA *Camb.*, AM *Harv.* (Mod. H.) Lectr.  
 . . . . . (Mediæv. Archaeol.)  
 Boynton, L. O. G., MA *Oxon.* (Mod. H.) Asst. Lectr.  
 . . . . . Asst. Lectr.

**History of Science**

Gregory, J. C., BSc *Lond.*, FRIC Hon. Lectr.

**Italian Language and Literature**

May, F., BA *Lond.* Sr. Lectr., Hd. of Dept  
 McNair, P. M. J., MA *Oxon.* Lectr.  
 Rawson, Mrs. Judith A., BA *Oxon.* †Lectr.  
 1 Lettore

**Law**

James, P. S., MA *Oxon.* Prof., Hd. of Dept.  
 Fitzgerald, P. J., MA *Oxon.* Prof.  
 Hornsey, G., LLM Lectr.  
 Davies, M. R. R., PhD *Camb.*, LLM Lectr.  
 Brown, D. J. L., BA LLB *Camb.* Lectr.  
 Parker, D. B., LLB *Lond. & Camb.* Lectr.  
 Schofield, P. J., BA LLB *Camb.* †Lectr.  
 Crotty, P., LLB †Lectr.  
 Lonsdale, A., MA *Oxon.* †Lectr.  
 Teeman, R., LLM †Lectr.  
 Glover, G. N., LLB †Lectr.  
 Wagstaff, D. St. J. R., MA LLB *Camb.* †Lectr.

**Mathematics**

- Ruse, H. S., MA Oxon., DSc Edin.  
(Pure M.) Prof., Hd. of Dept.  
Cowling, T. G., MA DPhil Oxon., FRS  
(Appl. M.) Prof.  
Ursell, H. D., MA Camb.  
(Mathl. Analysis) Reader  
Welch, B. L., BA Oxon., PhD Lond.  
(Stats.) Reader  
Slater, N. B., MA Edin. & Camb.,  
PhD Camb. (Appl. M.) Reader  
Price, H. L., MA Camb., MSc PhD  
(Appl. M.) Sr. Lectr.  
Barrett, W., BA Oxon., DUParis  
(Pure M.) Lectr.  
Perrott, I. B., MA Oxon. (Pure M.) Lectr.  
Löb, M. H., MA PhD Lond. (Pure M.) Lectr.  
Maude, R., MSc PhD Lond. (Pure M.) Lectr.  
Kirby, D., BSc PhD Lond. (Pure M.) Lectr.  
Zobel, A., BA PhD Lond. (Pure M.) Lectr.  
Wallace, E. W., BSc PhD Liv. (Pure M.) Lectr.  
Price, H. L., MA Camb., MSc PhD  
(Appl. M.) Lectr.  
Tempest, R. K., MSc PhD Liv.  
(Appl. M.) Lectr.  
Gandy, R. O., MA PhD Camb. (Appl. M.) Lectr.  
Cornish, F. H. J., BA DPhil Oxon.  
(Appl. M.) Lectr.  
James, G. S., BA Camb. (Stats.) Lectr.  
Trickett, W. H., MSc (Stats.) Lectr.  
..... (Stats.) Lectr.  
Hywel Evans, D., Albert Medal,  
MA Oxon., BSc Wales †Lectr.  
Brindley, J., BSc PhD Lond. (Appl. M.) Lectr.  
Crapper, G. D., BSc PhD Manc.  
(Appl. M.) Asst. Lectr.

**Electronic Computing Laboratory**

- Cook, G. B., MA PhD Camb. Dir.  
Reeves, C. M., MA PhD Camb. Lectr.  
Wolfenden, K., BSc MA Oxon. Lectr.  
4 Computing Assts.

**Medicine and Surgery, see below****Metallurgy, see Technology (Appl. Sci.)****Mining, see Technology****Music**

- Denny, J. R., MBE, MA MusB Camb.  
West Riding Prof.  
Allam, E., MA Camb., DMus Lond.  
(Composition) Reader  
Mumby, F. S., BMus Durh. & Lond., BA Lectr.  
Brown, J. C., MA MusB Camb., FRCO  
Lectr. & Univ. Organist  
McDougall, J., MA PhD Camb.  
(Acoustics) (also Phys.) Lectr.

**Pharmacology**

- Wood, D. R., BM BCh BSc MA Oxon. Prof.  
Mogey, G. A., MD Belf. Sr. Lectr.  
Exley, K. A., MD Lectr.

- Cahal, D. A., TD, MD Lectr.  
Clark, E. R., BPharm Wales, PhD Lond.  
(Pharmacol. Chem.) Lectr.  
..... (Pharmacy) Lectr.  
Nelson, G. A., MSc PhD, FLS  
(Pharmacognosy) Lectr.

**Philosophy**

- Cameron, J. M., MA Oxon. Prof., Hd. of Dept.  
Hunter, G. B. B., MA Oxon. Lectr.  
MacIntyre, A. C., BA Lond., MA Manc. Lectr.  
Rees, W. J., BA Wales, MA Oxon. Lectr.  
Ravetz, J. R., BA Swarthmore, PhD Camb.  
(Hist. & P. of Sci.) Lectr.  
Milligan, M. O., BA Oxon., MA Edin. Lectr.  
Cardwell, D. S. L., BSc PhD Lond. Lectr.  
Ishiguro, H., BA Tokyo, BPhil Oxon. Asst. Lectr.

**Phonetics**

- MacCarthy, P. A. D., MA Camb.  
(on leave) Sr. Lectr., Hd. of Dept.  
Woodhead, J. L., MA Camb. Lectr.  
Shirt, Marion A., MA Edin. Lectr.  
Spicer, A., BA Lond. Lectr.

**Physical Education**

- Morgan, R. E., BA Lond. Dir.  
Adamson, G. T., BSc Lond. Lectr.  
Mitchell, K. K. Lectr.  
McKelvie, Christine Asst.  
Whiting, H. T. A. Asst.  
Schofield, Muriel Asst.

**Physics**

- Stoner, E. C., BA ScD Camb., FIP,  
FRS Cavendish Prof., Hd. of Dept.  
Wilson, J. G., MA PhD Camb., FIP Prof.  
Hoare, F. E., MSc PhD Lond., FIP Reader  
McDougall, J., MA PhD Camb. Sr. Lectr.  
Curry, C., BSc PhD Durh. Sr. Lectr.  
Kellermann, E. W., DrPhil Vienna,  
PhD Edin., FIP Lectr.  
Marsden, P. L., BSc Birm., PhD Lectr.  
Rhodes, P., BSc PhD Lectr.  
Seymour, E. F. W., MA DPhil Oxon. Lectr.  
Hodson, A. L., MSc PhD Manc. Lectr.  
Youell, R. F., BSc Lond., PhD Lectr.  
Tennent, R. M., DIC, BSc PhD Lond. Lectr.  
MacKinnon, L., MA PhD Camb. Lectr.  
Manuel, A. J., BSc PhD Lond. Lectr.  
Thompson, B. J., BSc PhD Manc. Lectr.  
Moody, D. E., BSc Lectr.  
Greig, D., BSc St. And., PhD Aberd. Lectr.  
Read, D. A., BSc Sheff. Asst. Lectr.  
Hallam, G. C., BSc Sheff. Asst. Lectr.  
..... Asst. Lectr.  
..... Asst. Lectr.

**Physiology**

- Hemingway, A., MSc MB ChB Prof.  
Noltie, H. R., MA BSc Aberd. Sr. Lectr.  
O'Connor, W. J., MA Camb.,  
MD Adel. Sr. Lectr.  
Allen, W. J., MD Belf. Lectr.



Newman, P. P., MD *Liv.*  
 Wolstencroft, J. H., MA PhD *Camb.*  
 Coleridge, J. C. G., BSc MB ChB  
 Linden, R. J., MB ChB PhD  
 Kidd, C., BSc PhD *Durh.*  
 Ledsome, J. R., MB ChB *Edin.*

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Demr.  
 Demr.

**Portuguese**, see Spanish

### Psychology

Meredith, G. P., PhD *Lond.*, MSc MEd,  
 FBPoS Prof.  
 Morrisby, J. R., BA *W.Aust.* Lectr.  
 Harper, R., MSc *Manc.*, PhD *R'dg.*,  
 FBPoS Lectr.  
 Daws, P. P., BA PhD *Nott.* Lectr.  
 Holding, D. H., MA *Edin.* Lectr.

### Russian Language and Literature

Borras, F. M., MA *Oxon.* Sr. Lectr., Hd. of Dept.  
 Dressler, A., BA Lectr.  
 Cizova, Miss Tatjana, BA *Lond. & Syd.* Lectr.  
 Waring, A. G., BA *Manc.* Lectr.  
 Coe, Mrs. Valentina S., BA *Sofia* Asst. Lectr.  
 1 Lector

### Semitic Languages and Literatures

Isserlin, B. S. J., MA *Edin. & Oxon.*, BLitt  
 DPhil *Oxon.* Sr. Lectr., Hd. of Dept.  
 Rengstorff, K. H., DTheol  
 (Mediev. & Mod. Hebrew) Montague  
 Burton Visiting Lectr.  
 Lowy, S., MA *Jerusalem* Lectr.  
 Macdonald, Rev. J., MA BD *Glas.*,  
 STM U.T.S. (N.Y.), PhD Lectr.  
 1 Lector

### Social Studies

Grebenik, E., MSc(Econ) *Lond.*  
 Prof., Hd. of Dept.  
 Hanson, A. H., MA *Oxon.*  
 (Pub. Admin.) Reader  
 Wiseman, H. V., MA *Oxon.*,  
 BSc(Econ) *Lond.*, PhD Sr. Lectr.  
 Vaughan, E. A., BCom *Durh.*  
 (Soc. Studies) Lectr.  
 Henriques, L. F., MA DPhil *Oxon.*  
 (Soc. Anthropol.) Lectr.  
 Head, W. G., BSc(Econ) *Lond.* Lectr.  
 Slaughter, C., BA *Camb.* Lectr.  
 Brown, Ida E., MA *Sheff.* Lectr., Sr. Tutor  
 Rex, J. A., BA *Rand*, PhD Lectr.  
 Collins, Mrs. C. Doreen E.,  
 BSc(Econ) *Lond.* Lectr.  
 Wilson, B. R., BSc(Econ) PhD *Lond.* Lectr.  
 Dodd, C. H., BA *Wales*, MA *Edin.*  
 (on leave) (Pol.) Lectr.  
 Martins, H. G., BSc(Econ) *Lond.*  
 (Sociol.) Asst. Lectr.

### Spanish and Portuguese Languages and Literatures

Brown, R. F., MA PhD *Liv.* Cowdray Prof.  
 McCrick, Verena N. R., MA *Birm.* Lectr.  
 Davies, G. A., MA DPhil *Oxon.* Lectr.  
 Smith, C. C., MA PhD *Camb.* Lectr.  
 Garrad, K., MA PhD *Camb.* Lectr.  
 Bermejo Marcos, M., Fil&Let *Salamanca* Lectr.  
 1 Lectora, 1 Leitora

**Technology**, see below

**Textile Industries**, see Technology, below

### Theology

Reid, Rev. J. K. S., MA DD *Edin.* (Theol.) Prof  
 Barclay, Rev. R. A., MA BD *Edin.*  
 (O.T. Studies, Bibl. Hebrew & Hist. of  
 Rel.) Sr. Lectr  
 Higgins, Rev. A. J. B., MA *Wales*, BD  
 PhD *Manc.* (N.T.) Lectr.  
 Walker, Rev. G. S. M., MA *Oxon.*, BD  
 PhD *St.And.*  
 (Church Hist. & Doctrine) Lectr  
 ..... Asst. Lectr.  
 7 Assoc. Lectrs. in local Theol. Colls.

**Zoology**, see also Agriculture, below

Dodd, J. M., BSc *Liv.*, PhD *St.And.* Prof.  
 Kerr, T., MA DSc *Glas.* Reader  
 Henson, H., DSc PhD *Birm.* Sr. Lectr.  
 Broadhead, E., MA BSc DPhil *Oxon.* Sr. Lectr.  
 Brust, Jean, BSc *R'dg.*, PhD Lectr.  
 Werth, Irene, MA *Oxon.* Lectr.  
 Owen, R. W., MSc PhD *Wales* Lectr.  
 Lewis, J. R., BSc PhD *Wales* Lectr.  
 Jennings, J. B., BSc PhD Lectr.

### AGRICULTURE

Bywater, T. L., BSc *Wales*, MS *Wis.*  
 Prof., Hd. of Dept.  
 McGregor, J., BSc *Glas.* Prof.  
 Blaxter, K. L., DSc PhD *R'dg.*  
 Clive Behrens Lectr.  
 Holliday, R., BSc Sr. Lectr.  
 Boaz, T. G., MBE, MA DipAgric *Camb.*  
 Sr. Lectr.  
 Dalley, J., BSc Lectr., Farm Dir.  
 ..... Lectr., Dep. Farm Dir.  
 Hodgson, D. R., DipAgric *Camb.*, BSc  
 (Crop Husb.) Lectr.  
 Wood, W. F., BSc(Econ) *Lond.*  
 (Poultry Husb.) †Lectr.  
 Dalton, D. C., BSc *R'dg.*, PhD *Wales* Asst. Lectr.

### Agricultural Bacteriology

Wolf, J., MSc *R'dg.* Sr. Lectr.  
 Barker, A. N., MSc PhD Lectr.

### Agricultural Botany

Western, J. H., BSc PhD *Wales* Prof.  
 Jones, A. P., MSc *Wales* Lectr.

Turner, Dorothy M., DipHort R'dg., MSc Lectr.  
 Wren, Margery J., BSc Manc. Asst. Lectr.

### Agricultural Chemistry

Willcox, J. S., BSc Lond., FRIC Sr. Lectr.  
 Townsend, W. N., BSc Lectr.  
 Swann, D. A., BSc R'dg. Asst. Lectr.  
 Lax, G. R. Analyst  
 Wood, J. W., MSc(Tech) Manc., FRIC †Analyst

### Agricultural Economics

Long, W. H., MA Oxon.  
 Sr. Lectr., Principal Agric. Economist  
 Jeffrey, A. G., BCom Sr. Lectr.  
 Marsh, A. A., BSc(Agric) R'dg.,  
 DipAgricEcon Oxon. Lectr.  
 Butler, J. B., MSc Lond., MCom Birm. Lectr.  
 Clarke, G. B., BSc(Econ) Lond.,  
 DipAgricSc Camb. Lectr.  
 Black, C. J., BSc Lond., BLitt  
 DipAgricEcon Oxon. Lectr.  
 Wynn, A. J., BSc Lond. Lectr.  
 Simpson, I. G., MSc R'dg. Lectr.  
 Simpson, Mrs. Morag C., BSc(Econ)  
 MSc(Agric) Lond. Lectr.  
 6 Investigational Assts.

### Agricultural Zoology

Gibson, N. H. E., BSc Lond., PhD Lectr.  
 Whittington, B., BSc PhD Sheff. Lectr.

### Veterinary Science

Towers, K. G., BVSc Liv. Lectr., Vet. Officer

## DENTISTRY

### Anæsthetics, General

Harbord, R. P., MD Liv., FFARCS Lectr.

### Children's and Preventive Dentistry

Jackson, D., DDS LDS Manc. Sr. Lectr.

### Dental Anatomy and Physiology

Sykes, J. G., BChD, FDSRCS Lectr.

### Dental Histology

† Hon. Clin. Demr.

### Dental Materials, Chemistry and Physics of

Roberts, Prof. A. L., BSc PhD, FRIC †Lectr.  
 Walton, A. W., BSc †Lectr.  
 Worrall, W. E., MSc PhD Lectr.

### Dental Mechanics

Newbould, K. M., BChD LDS Lectr.

### Dental Radiology

Winn, J. M., BA Camb. Lectr.

### Dental Surgery

Hopper, F. E., MDS Durh., FDSRCS  
 (D. Surg.) Prof., Hd. of Dent. Sch.  
 Hollings, M. R., BChD, FDSRCS Sr. Lectr.  
 Ross, J. H., BChD LDS Sr. Lectr.  
 Heylings, R. T., MB ChB BChD LDS Lectr.  
 Davidson, P. R., LDS Lectr.  
 Saunders, M., BChD LDS Lectr.  
 MacGregor, A. J., BDS Durh., FDSRCS Lectr.  
 Johnson, H. G. L., LDS Clin. Lectr.  
 Brook, F., FDSRCS Clin. Lectr.  
 Cork, D. J., LDS Clin. Lectr.  
 Jason Wood, T., BChD Clin. Lectr.  
 Palmer, E. K., LDS (Gen. D. Pract.) Lectr.  
 Newbould, K. M., BChD LDS  
 Hon. Clin. Lectr.  
 6 vacancies for Hon. Clin. Tutors

### Oral Biology

Weidmann, S. M., DrIng T.H. Darmstadt,  
 PhD (Oral Biol.) Sr. Res. Fellow

### Orthodontics

Haynes, S., BChD LDS Lectr.

### Prosthetic Dentistry

Woodhead, C., LDS Sr. Lectr.  
 Thornham, C. B., BChD LDS Lectr.  
 Southam, F. L., LDS Sr. Hosp. Dent. Officer

## MEDICINE

(for subjects of first 2 yrs.—Anat., etc.,  
 see above)

### Anæsthetics

Harbord, R. P., MD Liv., FFARCS Reader  
 Harrison, Gwendolen, MB ChB, FFARCS  
 Sr. Clin. Lectr.

### Clinical Lecturers

Lawrence, R. C., MB ChB, FFARCS  
 Harris, R. L. H., MB BS Lond., FFARCS  
 Hawthorne, A. T., MB ChB BAO Belf., FFARCS  
 Mackintosh, F. G., MB ChB Aberd., FFARCS  
 Smith, Mrs. Doris N. Ambury, FFARCS  
 Young, D. S., MB ChB, FFARCS  
 Ablett, J. J. L., MB BS Lond., FFARCS  
 Lecturer

### Bacteriology

Oakley, C. L., MD BS DSc Lond., FRS  
 Brotherton Prof.  
 Johnstone, K. I., BSc MB ChB PhD  
 (Pub. Health B.) Reader  
 Zinnemann, K. S., MD Fran., MSc Sr. Lectr.  
 Williamson, G. M., MD Lectr.  
 Nicholson, D. E., BSc PhD Lond., FRIC Lectr.  
 Czekalowski, J. W., MD DTM&H Edin. Lectr.  
 La Touche, C. J. P., MSc Dub.  
 (Med. Mycol.) Lectr.  
 Turner, G. C., MD Lectr.  
 Willis, A. T., MB BS Melb., PhD Lectr.

Jacobs, S. I., MB ChB Lectr.  
 Eaves, G., BSc *Manc.*, PhD  
 (Electron Microscopy) Hon. Adviser

### Cancer Research, see Pathol., Experimental

### Forensic Medicine

Polson, C. J., MD *Birm.*, FRCP Prof.  
 Hainsworth, D., MB ChB Lectr.  
 Gee, D. J., MB BS *Lond.* Lectr.

### Medical Physics

Spiers, F. W., PhD DSc *Birm.* Prof.  
 Hay, G. A., MSc *Durh.* Sr. Lectr.  
 Reed, G. W., MSc Lectr.  
 Hepburn, F., BA *Camb.*, MSc PhD *Nott.* Lectr.  
 Jacobs, Mrs. Norma, BSc Lectr.

### Medicine and Clinical Medicine

Tunbridge, R. E., OBE, MD MSc, FRCP, JP Prof.  
 Hartfall, S. J., TD, BSc MD, FRCP (Clin. M.) Prof.

Taverner, D., MBE, MD Reader  
 Fountain, J. R., MB ChB *Edin.* †Lectr.  
 Higgins, F. E., BA *Montr.*, MB ChB *Birm.* Sr. Registrar, Tutor

Hellier, F. F., OBE, MA *Camb.*, MD *Lond.*, FRCP (Dermatol.) Sr. Clin. Lectr.  
 Towers, J. R. H., MA MD *Camb.*, FRCP Sr. Clin. Lectr.

Garland, H. G., TD, MD, FRCP (Neurol.) Sr. Clin. Lectr.  
 Anning, S. T., TD, MA MD *Camb.*, FRCP (Dermatol.) Clin. Lectr.

La Touche, C. J. P., MSc *Dub.* (Med. Mycol.) Lectr.  
 Hall, D. A., BSc PhD (Med. Biochem.) Lectr.  
 Rowell, N. R., MB BS *Durh.*, MRCP (Dermatol.) Sr. Registrar, Tutor

Edwards, G. F., MBE, MB BS *Lond.* (TB.) †Lectr.  
 Tattersall, R. N., OBE, MD *Lond.* Clin. Lectr.  
 Whitaker, W., BSc MD Clin. Lectr.

Watkinson, G., MD BS *Lond.* Sr. Lectr.  
 Atkinson, M., MD *Lond.* Lectr.  
 Nixon, P. G. F., MB BS *Durh.*, MRCP Lectr.

Rose, G. A., DM MA *Oxon.* Lectr.  
 Wright, V., MB ChB *Liv.* (Rheumatol.) Lectr.  
 Charles, A. O. T., MSc *Lond.*, PhD Lectr.

Benn, E. C., DPH *Liv.*, MB ChB (Infectious Dis.) Sr. Clin. Lectr.  
 Murray Scott, R. A., MA MD *Camb.* (Gen. Pract. of Med.) †Lectr.

Parsonage, M. J., BSc MB ChB *Manc.*, DCH (Neurol.) Clin. Lectr.  
 Telling, O. M., MA DM *Oxon.*, FRCP Clin. Lectr.

Catterall, R. D., MRCPed (Venereal Dis.) Clin. Lectr.

### Obstetrics and Gynaecology

Clay, Sir Andrew, MD, FRCS, FRCOG (Obstet. & Gynaecol.) Prof.

Lister, Ursula M., MD *Lond.*, FRCSEd, FRCOG (Obstet. & Gynaecol.) Sr. Lectr.  
 Currie, D. W., MD ChM, FRCS, FRCOG (Obstet.) Sr. Clin. Lectr.

Agar, H., MB BS *Lond.*, BSc MB ChB, FRCS, FRCOG (Obstet. & Gynaecol.) Clin. Lectr.

Farquhar, J. B., MB ChB *Birm.*, FRCS, FRCOG (Obstet. & Gynaecol.) Clin. Lectr.

Black, W. P., MB ChB *Glas.*, FRCSEd, FRCOG Lectr.  
 Theobald, G. W., MA MD BChir *Camb.*, FRCSEd, FRCOG Hon. Lectr.

Redman, T. F., TD, MB ChB *Manc.*, FRCSEd, FRCOG Hon. Demr.  
 MacDonald, R. R., MB ChB *Glas.* Sr. Registrar, Tutor

### Pædiatrics and Child Health

Craig, W. S., BSc *Glas.*, MD *Edin.*, FRCPEd Prof.  
 Allibone, E. C., PhD *Birm.*, MD DPM, FRCP Sr. Clin. Lectr.

Buchanan, M. F. G., MB ChB *Edin.* Lectr.  
 Lewis, G. M., MB BS DCH *Lond.* Lectr.  
 MacKinnon, Mrs. Joan M., MB ChB *Edin.* †Lectr.

Illingworth, Eugenie C., BSc MD Hon. Demr.  
 Littlewood, J. M., MB ChB Sr. Registrar, Tutor

### Pathology

Lumsden, C. E., MD *Aberd.* Prof.  
 Sutherland, T. W., MD Sr. Lectr.  
 Harriman, D. G. F., MD *Belf.* (Neuropathol.) Sr. Lectr.

MacIver, J. E., BA MD *Camb.* (Hæmatol.) Sr. Lectr.

Wright, C. J. E., MD MSc Sr. Lectr.  
 Goldie, W., MA MB ChB *Aberd.* †Lectr.  
 Thompson, H., MD *Glas.* Lectr.

Anderson, C. K., MB ChB *St. And.* Lectr.  
 Shiel, F. A. O'M., MB BCh BAO BSc *N.U.I.* Lectr.

Woods, C. G., MB ChB BSc Lectr.  
 Lissimore, N., MD (Gynaecol. P.) †Lectr.  
 Willis, R. A., MD DSc *Melb.*, FRCP •

Shone, J. A. V. Emer. Prof., Hon. Res. Fellow (Blood Trans.) Lectr.  
 Bevan, Constance M., MB ChB *Manc.*, DCP *Lond.* Asst. Lectr.

### Pathology, Chemical

Lathe, G. H., MSc MD CM PhD *McG.* Prof.  
 Anderson, W. N., BSc PhD *Belf.* Lectr.  
 Hargreaves, T., MB BS BSc *Lond.* Lectr.

Holton, J. B., BSc *Lond.* Temp. Lectr.  
 Levell, M. J., MA *Camb.* Temp. Lectr.  
 Park, Dorothy C., MSc *Durh.* Demr.

Spencer-Pet, J., MB BS *Lond.* Demr.  
 Toothill, C., BSc *Lond.* Demr.

### Pathology, Experimental and Cancer Research

Green, H. N., MA *Camb.*, MD MSc *Sheff.* (Exper. P.) Prof., Dir. of Cancer Res.

Day, T. D., MA MD *Camb.*  
 Sr. Res. Fellow, Asst. Dir. of Cancer Res.  
 Bonser, Mrs. Georgiana M., MD *Manc.*,  
 FRCP (Cancer Res.) Reader  
 Stickland, L. H., MA PhD *Camb.*  
 (Exper. Biochem.) Sr. Lectr.  
 Laws, J. O., MA MB BChir *Camb.*,  
 PhD *Lond.* Lectr.  
 Clayson, D. B., BA *Oxon.*, PhD Lectr.  
 Jull, J. W., BSc PhD Lectr.  
 Eaves, G., BSc *Manc.*, PhD  
 (Electron Microscopy) Hon. Adviser  
 7 Res. Assts.

### Preventive Medicine and Public Health, see also Pathol.

Bradshaw, D. B., MA MB BCh BAO  
 DPH *Dub.* (Pub. Health) Prof.  
 McPhail, A. N., MC, MD DPH *Glas.* Sr. Lectr.  
 Sutherland, R., MD DPH *Aberd.* Sr. Lectr.  
 Still, R. J., MA MB BChir *Camb.* Hon. Lectr.  
 †Lecturers (Public Health)  
 Jones, J. A. L. V., CBE, MB ChB *Glas.*, JP  
 Taylor, A. L., MD DPH *LDS*  
 Welch, G. E., MB BS *Durh.*, DPH  
 Demonstrators (Public Health)  
 Lyons, J., MB ChB DPH  
 Jamieson, J. G., MA BM BCh *Oxon.*  
 †Instructors (Public Health)  
 Goodfellow, J.  
 Dalley, R. A., FRIC

### Psychiatry

Hargreaves, G. R., OBE, MSc, FBPoS  
 Nuffield Prof., Hd. of Dept.  
 Wood, E. A. M., MB ChB *Edin.*, MRCPed,  
 DPM Sr. Lectr.  
 Whyte, Marion B. H., MA *Edin.*  
 (Psychiatric Soc. Work) Lectr.  
 Young, A. J., MA *Camb.*, BEd *Edin.*  
 (Clin. Psychol.) Lectr.  
 Webster, R. G., MA *Aberd.*  
 (Clin. Psychol.) Lectr.  
 Roberts, J. M., MD *Edin.*, DPM †Lectr.  
 Valentine, J., MB ChB *Glas.*, DPM *Lond.* †Lectr.  
 Wilson, A. H., MB ChB *Aberd.*, DPM †Lectr.  
 Markillie, R. E. D., MB BS DPM *Lond.* †Lectr.  
 Atkinson, M. W., MB ChB DPM  
 Sr. Registrar, Tutor  
 Guntrip, Rev. H. J. S., BA BD PhD *Lond.*  
 Psychotherapist  
 Newbigin, Nancy, MA *Oxon.*  
 Psychiatric Social Worker  
 Leese, Stephanie M., BSc MB BS  
 DPM *Lond.* (Child P.) †Lectr.  
 Cook, J. B., MD *Lond.* (Neurol.) †Demr.

### Radiology and Radiotherapy

Johnstone, A. S., MD *Edin.*, DMRE *Camb.*,  
 FRCSEd, FFR (Radiodiag.) Prof.

Illingworth, G. H., MA *Oxon.*, DMR *Edin.*,  
 MD (Radiodiag.) †Lectr.  
 Nuttall, J. R., MD *Manc.*, FFR  
 (Radiother.) Sr. Clin. Lectr.  
 Hughes, A., MB BCh *Wales*, MRCP,  
 DMRD Res. Fellow

### Surgery

Goligher, J. C., ChM *Edin.*, FRCS  
 Prof., Hd. of Dept.  
 Chamberlain, D., MB ChM, FRCS, FACS  
 (Clin. S.) Prof.  
 Pyrah, L. N., MSc ChM, FRCS (Urol. S.) Prof.  
 Foster, J., MA *Camb.*, MD *Camb. & Melb.*,  
 FRCS (Ophthalmol.) Sr. Clin. Lectr.  
 Black, G. W., MB BS *Lond.*, FRCS  
 (Ophthalmol.) Sr. Clin. Lectr.  
 Mills, C. P., MB BS *Lond.*, FRCS  
 (Otol.) Clin. Lectr.  
 Boyle, T. McM., MB ChB, FRCS  
 (Otol.) Sr. Clin. Lectr.  
 Pain, A. B., ChM, FRCS  
 (Orthop. S.) Sr. Clin. Lectr.  
 Clark, J. M. P., MBE, MB ChB, FRCS  
 (Orthop. S.) Sr. Clin. Lectr.  
 Broomhead, R., MB ChB, FRCS  
 (Orthop. S.) Hon. Lectr.  
 Armitage, G., MC, TD, MD ChM, FRCS  
 Sr. Clin. Lectr.  
 Henderson, W. R., OBE, MB ChB *Edin.*,  
 FRCS (Neurol. S.) Sr. Clin. Lectr.  
 Latchmore, A. J. C., MBE, MS *Lond.*,  
 FRCS Sr. Clin. Lectr.  
 Shucksmith, H. S., TD, BSc MB ChB,  
 FRCS Sr. Clin. Lectr.  
 Oldfield, M. W. C., MBE, MA DM  
 MCh *Oxon.*, FRCS Sr. Clin. Lectr.  
 Smiddy, F. G., MB ChM, FRCS Sr. Lectr.  
 Lord, O. C., ChM DLO, FRCSEd  
 (Otol.) Clin. Lectr.  
 ..... Sr. Registrar, Tutor  
 Shea, F. W., FRCS Sr. Registrar, Tutor  
 Raper, F. P., MB ChB, FRCS  
 (Urol.) Clin. Lectr.  
 Ellis, M., MA MB BChir *Camb.*, FRCS  
 Clin. Lectr.  
 Shaw, W. M. H., BSc MB ChB, FRCS  
 (Plastic S.) Hon. Lectr.  
 Wooler, G. M., TD, MA MD BChir *Camb.*,  
 FRCS (Thoracic S.) Clin. Lectr.  
 Aylwin, J. A., MB ChB, FRCS  
 (Thoracic S.) Clin. Lectr.  
 Wall, A. E., MSc MB ChB *Manc.*, FRCS  
 (Neurol. S.) Clin. Lectr.

### TECHNOLOGY

(see also Agriculture)

### Applied Science, Houldsworth School of

Roberts, A. L., BSc PhD, FRIC  
 Livesey Prof., Chairman of Sch.  
 Haselden, G. G., BSc PhD *Lond.*  
 (Chem. Engin.) Prof.  
 Nutting, J., MA *Camb.*, BSc PhD (Metall.) Prof.

Garside, J. E., BSc PhD  
(Fuel Technol.) Sr. Lectr.  
Shuttleworth, R., PhD *Brist.*, BSc  
(Metall.) Lectr.  
Feltham, P. A., DSc PhD *Lond.*, MSc  
(Metall.) Lectr.  
Butcher, K. L., BSc *Lond.*, FRIC  
(Chem. Engin.) Brotherton Sr. Lectr.  
Macrae, J. C., BSc *Glas.*, FRIC  
(Gas Chem.) Sr. Lectr.  
Carruthers, T. G., BSc  
(Ceramics & Refractory Materials) Lectr.  
Mitchell, S. C., BSc *Lond.*  
(Fuel Technol.) Lectr.  
Pollard, A., BSc (Chem. Engin.) Lectr.  
Cass, F. H., BSc (Chem. Engin.) Lectr.  
Codd, I., BSc PhD (Metall.) Lectr.  
Beeley, P. R., BMet PhD *Sheff.* (Metall.) Lectr.  
Worrall, W. E., MSc *Lond.*, PhD  
(Ceramics & Refractory Materials) Lectr.  
Roberts, J. P., MA *Camb.*, BSc PhD *Lond.*  
(Ceramics) Lectr.  
McDougall, I. R., BSc *Lond.*  
(Chem. Engin.) Lectr.  
Collinge, C. N., MA *Camb.*  
(Chem. Engin.) Lectr.  
Hulett, J. R., BA DPhil *Oxon.*  
(Chem. Engin.) Lectr.  
Douthwaite, R. M., BSc Lectr.  
Dent, F. J., OBE, PhD DSc Hon. Lectr.  
Berry, W. R., MSc *Manc.*, PhD, FIM, FRIC Hon. Lectr.  
Sarjant, Emer. Prof. R. J., OBE, DSc *Lond.* Hon. Lectr.  
Blackburn, W. H., MSc PhD  
Principal Res. Chemist  
Dixon-Lewis, G., MA DPhil *Oxon.*  
Sr. Res. Chemist  
Kilham, J. K., BSc PhD Sr. Res. Chemist

### Colour Chemistry and Dyeing

Bradley, W., DSc PhD *Manc.*, FRIC Prof.  
Bird, C. L., MSc, FRIC (Dyeing) Sr. Lectr.  
Peters, A. T., DSc PhD *Manc.*  
(Col. Chem.) Sr. Lectr.  
Sutcliffe, F. K., MSc *Manc.*, PhD  
(Col. Chem. & Dyeing) Res. Lectr.  
Patterson, D., MSc PhD *Brist.*  
(Lakes & Pigments) Lectr.  
Stevens, C. B., BSc PhD (Dyeing) Lectr.  
Jones, F., BScTech *Manc.*, PhD Lectr.

### Engineering, Civil

Evans, R. H., CBE, DSc *Manc.*, DSc *Ghent*, PhD Prof., Admin. Hd. of Engin. Depts.  
Lightfoot, E., MSc *Lond.*, PhD Reader  
Wilson, G., MSc (Archit. Engin.) Hon. Lectr.  
Pemberton, R., DSc (Archit. Engin.) Hon. Lectr.  
Hunter Rose, W., MSc, FGS Hon. Lectr.  
Bennett, E. W., MSc *Brist.* Lectr.  
Mackey, R. D., BSc *Durh.* Lectr.  
Sutcliffe, P., BScTech *Manc.* Lectr.  
Chronowitz, A. W., DiplEng *Polish Tech. Univ. (Lond.)* Lectr.

Collins, W. G., BSc *Lond.* Lectr.  
Fox, J. A., BSc *Brist.* Lectr.  
Yettram, A. L., BA BAI *Dub.* Lectr.  
Wootton, H. J., BSc *Lond.* Asst. Lectr.

### Engineering, Electrical

Carter, G. W., MA *Camb.* Prof.  
Richardson, A., BSc *Durh.* Sr. Lectr.  
Brayshaw, G. S., BSc PhD *Lond.* Lectr.  
Wilson, T., BSc(Eng) *Lond.* Lectr.  
Walker, P. H., BSc(Eng) *Lond.*, PhD *Manc.* Lectr.  
Stephenson, L. M., BSc(Eng) PhD *Lond.* Lectr.  
Salvage, B. F., BSc PhD *Lond.* Lectr.  
Anderson, J. H., BSc Lectr.  
Mamak, R. S., BSc *Manc.* Lectr.

### Engineering, Mechanical

Johnson, D. C., MA *Camb.* Prof.  
..... (Fluid Mechanics) Prof.  
Leah, A. S., BSc PhD  
(Appl. Thermodynam.) Reader  
Shilton, R., BSc(Eng) *Lond.* Sr. Lectr.  
Appleyard, D., MSc Lectr.  
Stansfield, H., MSc *Manc.* Lectr.  
Mobbs, F. R., DIC, MSc Lectr.  
Palmer, W. B., MA *Camb.*, PhD Lectr.  
Dowson, D., BSc PhD Lectr.  
Bradley, D., BSc PhD Lectr.  
Higginson, G. R., BSc PhD Lectr.  
Tanner, L. H., BA *Camb.* Lectr.  
Longfield, M. D., BSc Lectr.

### Fuel Industries, see Appl. Sci.

### Leather Industries

Ward, A. G., OBE, MA *Camb.* Prof.  
Reed, R., MSc *Manc.*, PhD Lectr.  
Flint, F. Olga, BSc PhD Lectr.  
Nürsten, H. E., BSc PhD Lectr.  
Pearson, C. H., BSc Lectr.  
Scholtz, J., Lectr., Supervisor of Exper. Tannery  
Stainsby, G., MA PhD *Camb.* Lectr.

### Metallurgy, see Appl. Sci.

### Mining

King, H. J., BSc(Eng) PhD *Lond.* Prof.  
Jowett, A., BSc PhD  
(Dressing of Minerals & Coal Prep.) Lectr.  
Dell, C. C., BSc(Eng) *Lond.* Lectr.  
Potts, W. L. J., BSc *Durh.* (Mining) Lectr.  
Brook, N., BSc(Eng) *Lond.*, PhD  
(Colliery Engin.) Lectr.  
Myers, J. O., BSc PhD  
(Mine Surv. & Appl. Geophys.) Lectr.

McFarlane, J., BSc *Manc.*, BEng *Sheff.*,  
FGS (Mining & Mine Surveying) Lectr.  
Peck, A., BSc  
(Metal Mining & Mine Surveying) Lectr.  
Grounds, A., BSc(Tech) *Manc.*  
(Min. Dressing & Coal Prep.)  
Hon. Lectr.  
Needham, L. W., MSc *Birm.*  
(Min. Dressing & Coal Prep.)  
Hon. Lectr.  
Harris, C. C., BSc *Lond.*, PhD  
(Min. Dressing & Coal Prep.) Lectr.

### Textile Industries

Speakman, J. B., DSc *Manc.*, FRIC,  
Hon. FTI Prof., Hd. of Dept.  
..... (Wool Text. Engin.) Res. Prof.  
Whewell, C. S., BSc PhD, FRIC, FTI  
(Text. Technol.) Prof.  
Astbury, W. T., MA ScD *Camb.*,  
Hon. DSc *Stras.*, FIP, FRS  
(Text. Phys.) Hon. Reader, Prof. of  
Biomolecular Structure  
Chamberlain, N. H., BSc PhD, FTI Reader  
Woods, H. J., MA *Oxon.*, FIP  
(Text. Phys.) Reader  
Townend, P. P., BSc PhD, FTI  
(Yarn Manuf.) Sr. Lectr.  
Snowden, D. C., MSc, FTI  
(Weaving Mech.) Sr. Lectr.  
Kisby, C. (Text. Design) Sr. Lectr.  
Mathieson, A. R., MSc *Durh.*, PhD *Nott.*  
(Chem. of High Polymers) Lectr.  
Peters, L., BSc *Lond.*, MSc PhD  
(Text. Industries) Lectr.  
Onions, W. J., BSc *Wales* (Text. Testing) Lectr.  
..... (Text. Engin.) Lectr.  
Bell, J. W., BSc PhD (Text. Chem.) Lectr.  
Truter, E. V., DIC, PhD BSc *Lond.*  
(Text. Chem.) Lectr.  
Speakman, P. T., BA DPhil *Oxon.*  
(Text. Chem.) Lectr.  
Grosberg, P., PhD MSc(Eng) *Rand*  
(Text. Engin.) Lectr.  
Munden, D. L., BSc (Text. Engin.) Lectr.  
Young, D. (Cloth Anal. & Cloth Struct.) Lectr.  
Brook, G., BSc PhD (Text. Industries) Lectr.  
Sikorski, J., DiplIng *Warsaw*, MSc PhD  
(Text. Phys.) Lectr.  
Skertchley, A., BSc *Melb.*, MSc  
(Text. Phys.) Lectr.  
Smith, P. A., BSc (Text. Industries) Lectr.  
Kidd, F., MA *Camb.* Res. Chem. & Hon. Lectr.

### INSTITUTE OF EDUCATION

..... Prof. of Educn., Dir.  
Kean, A. M., MA *Glas.* Dep. Dir.  
Smith, Miss M. Metcalfe, MA  
(Primary E.) Lectr.  
Stevens, Frances M., BA *Lond.* Lectr.  
Jones, C. M., MA MSc Lectr.  
Lovell, K., BSc MA PhD *Lond.* Lectr.  
Owen, P. E., MA *Lond.* Lectr.  
Richards, G. O., MA MusB *Camb.*, FRCO Sec.  
Steiner, Elise, DipSocStud *Lond.*  
Warden of Children's Centre  
Goodier, J., BSc PhD *Lond.* Visiting Lectr.  
Murray, Emer. Prof. V., MA *Oxon.* &  
*Camb.*, BLitt BD *Oxon.* Visiting Lectr.  
Richardson, J. Elizabeth, MA *Lond.*  
Visiting Lectr.  
Varin, R. L. Visiting Lectr.  
Tucker, P. E., BLitt MA *Oxon.* Librarian

### ADULT EDUCATION AND EXTRA-MURAL STUDIES

Raybould, S. G., BSc(Econ) PhD *Lond.*  
Prof. of Adult Educn., Hd. of Dept.  
Harrison, J. F. C., MA *Camb.*, PhD  
Dep. Hd. of Dept.  
Johnson, A., BSc *Lond.* Asst. Dir.  
Lectr. & Warden of Bradford Centre : Shaw, R.,  
BA *Manc.*  
Lectr. & Warden of Middlesbrough Centre :  
Saunders, J. W., MA BLitt *Oxon.*  
Lectrs. : Baxandall, H., MA *Camb.* ; Bellamy,  
C. V., BSc ; Duffy, A. E. P., BSc(Econ)  
PhD *Lond.* ; Johnson, C., BA ; Thompson,  
E. P., BA *Camb.*  
Univ. Extension Lectrs. : Butterworth, E. D.,  
MA *Camb.* ; Dalby, G. R., MA ; de Rusett,  
A. W., MA *Camb.* ; Hauger, E. G., MA ;  
Hunt, K. L., BSc *Brist.*, PhD ; Jepson,  
N. A., BA *Manc.*, PhD ; Kelly, A., MA  
*Glas. & Leeds* ; McLeish, J., BSc EdB *Glas.* ;  
McTague, G. ; Stein, W., BA *Manc.* ;  
Stephenson, T. E., BA *Durh.*

### SERVICES EDUCATION WORK

Brookman, P. E., BCom  
Sec., Services' Educn. Cttee.  
Lecturers : MacGregor, J., BA *Liv.*, MED PhD ;  
Bishop, T. G., BA BSc(Econ) *Lond.*, PhD  
Tutor Librarian : Prichard, W. J., MCom  
Secretary : Virgo, S. R., MBE

### ADMINISTRATIVE AND OTHER STAFF

UNIV. ADMINISTRATION. Sub-Dean, Fac. of  
Med. : T. A. Divine, MB ChB. Sr. Asst.  
Registrar : L. R. Kay, BA *Sheff.* ; Asst. Registrar :  
A. Rowland-Jones, MA *Oxon.* Asst. Bursar : R.  
Forbes, DFC, BCom *Lond.* Resident Architect

& Planning Officer : G. Wilson, MSc ; Dep.  
Resident Architect : R. Pemberton, DSC.  
Surveyor of the Fabric : A. L. Knighton. Chief  
Catering Officer : T. Greenhalgh. Photographer :  
W. Blackledge.

**TUTOR OF WOMEN STUDENTS.** Joyce Bloxham, MBE, BA.

**LIBRARY.** Dep. Librarian, P. Havard-Williams, MA *Wales*, DipEd *Oxon*.

**WARDENS OF HALLS OF RESIDENCE.** (Men)—D. Hywel Evans, Albert Medal, MA *Oxon.*, BSc *Wales* (Devonshire Hall); R. E. Morgan, BA *Lond.* (Lyddon Hall); J. L. Woodhead, MA *Camb.* (Woodsley Hall); B. R. Wilson, BSc (Econ) PhD *Lond.* (Sadler Hall). (Women)—Lettice M. Pither (Oxley Hall); M. Brenda Carey, LLB, JP (Westwood Hall); . . . . . (Lupton Hall); Edith M. McAlpine, MA *Edin.* (Tetley Hall); Verena N. R. McCririck, MA

*Birm.* (Ellerslie Hall); Lorna Galbraith (Croft Hall, for Maternity Clerks).

**WARDEN OF OVERSEAS STUDENTS.** A. Lang, MA EdB *Aberd.*

**WARDEN OF LODGINGS.** Carol P. Abell, BCom.

**WARDEN OF WOMEN STUDENTS IN LODGINGS.** Mrs. Marjorie Sledge, BA.

**STUDENT HEALTH SERVICE.** Univ. Med. Officer, R. J. Still, MA MB BChir *Camb.* Asst. Med. Officers, S. E. Finlay, MB *Syd.*, MRCP; Mrs. Joan M. Tattersall, MB ChB.

**APPOINTMENTS BOARD.** Sec., O. H. J. Dick, BA *Lond.* Asst. Secs., A. W. Town, MA *Camb.*; L. A. Grint, MA *Camb. & Oxon.*

## AFFILIATED COLLEGES

**COLLEGE OF THE RESURRECTION**, Mirfield, Yorks (tel.; Mirfield 3362). (C. of E.). Affiliated 1904. Students are exempt from attendance at the univ. upon 1st-yr. classes of BA course. Warden—Rev. Father H. Bishop.

**DIOCESAN TRAINING COLLEGE**, ST. JOHN'S COLLEGE, York (tel.; York 23596). (C. of E.). A teachers' trg. coll., affiliated 1921. Attendance upon certain courses of the coll. exempts from inter. (or introductory) courses in the univ. in 1st-yr. BA and BSc. Principal—Rev. Canon P. J. Lamb, MA *Oxon*.

**COLLEGE OF TECHNOLOGY, PRINTING DEPARTMENT**, Calverley St., Leeds, 1 (tel.; Leeds 36191). Affiliated 1922 with a view to recognition

of classes at the printing dept. of the coll. as part of the BCom course of the univ. Principal of the college—C. Chew, MScTech *Manc.*, FRIC.

**RAWDON COLLEGE**, Rawdon, nr. Leeds (tel.; Rawdon 59). (Baptist). Affiliated 1916. Attendance upon certain courses of the coll. exempts from 1st-yr. classes of BA course. Principal—Rev. D. S. Russell, MA BD *Glas.*, MA BLitt *Oxon*

**TECHNICAL COLLEGE**, Queen St. S., Huddersfield (tel.; Huddersfield 5260). Affiliated 1906. Attendance upon certain courses of the coll. exempts from 1st-yr. classes of courses for BA, BSc (incl. engin.), and MB ChB. Principal—W. E. Scott, MBE, MSc PhD *Durh.*, FRIC.

## GENERAL INFORMATION

The Leeds Sch. of Medicine, founded in 1831, and the Yorkshire Coll. of Science, founded in 1874, were united in 1884. The coll. formed part of the Victoria Univ., Manchester, from 1887 to 1904, when a univ. was establd. in the city of Leeds by royal charter.

The univ. has for many years maintained the balance of its facs., arts being at present the largest numerically. Through close connexions with and generously sustained help from industry, however, special strengths in pure and appl. scis. have been developed. In recent yrs., the use of special supplementary Treasury grants for the devel. of higher technol. educn. has made possible further major advances in these fields. Recent devels. incl. a high energy radiation lab. at Cookridge and a fully staffed and equipped electronic computing lab.

**CONSTITUTION.** The court is the governing body of the univ. and is empowered to regulate and determine all univ. matters in the ways required by the charter and statutes. It includes in its membership the council, reps. of the senate, teaching staff, convocation, professional bodies, local authorities, other univs., colls. and sche.

The council also has a widely representative membership and is the executive body of the univ., exercising such powers as are granted to it by the court and by statute, incl. the institution, after a report by senate, of teaching offices, and management of the financial affairs of the univ. Subject to statutes and ordinances and to review by the court, the senate controls and generally regulates instructn. and educn. The chancellor is the hd. and chief officer of the univ. and is pres. of court and council. In her absence, the pro-chancellor presides at meetings of these two bodies; the vice-chancellor is *ex-officio* chairman of senate. The chancellor, pro-chancellor and vice-chancellor are elected by the court on the nomination of council.

**INCOME (1958-59).** Total income, £2,160,306 (parliamentary grants, 71 per cent.; local authorities grants, 3 per cent.; fees, 12 per cent.; interest on investments, 1 per cent.; other sources, 13 per cent.).

**UNIVERSITY PRECINCT.** In May 1960 the univ. publ. a report on its future physical devel. prepared by its consultant architect, Mr. Peter

Chamberlin. His main proposals include the sinking of part of the inner city ring road below ground and building above the road a new med. centre for Leeds incorporating 4 hosps. and new med. and dent. schls. The area of the precinct would be increased from 30 to 90 acres, and would include residential accomm. for 2500 students.

**FACULTIES AND DEANS.** *Arts*, Prof. W. Walsh (educn.); *econ. & soc. studies*, L. F. Henriques (soc. studies); *law*, Prof. P. S. James; *med.*, A. B. Pain (surg.); *sci.*, Dr. F. E. Hoare (phys.); *technol.*, Dr. A. S. Leah (mech. engin.).

**LIBRARY.** Brotherton libr. (general libr. of the univ.) contains 494,924 books and pamphlets, incl. (a) Brotherton collection, 44,148 books and pamphlets, 251 incunabula, 959 lit. and hist. MSS., 4106 deeds, 34,135 letters; especially strong in Engl. lit. of 17th to 19th cents., Yorks. hist. and topog., early hist. of Labour party, and Romany lit.; (b) Anglo-French collection, 3000 vols., trans. of Engl. books into French and French books about Gt. Britain, printed before 1805; (c) Icelandic & Scandinavian collection, 13,000 vols. & pamphlets, particularly rich in mod. Icelandic; (d) Mitresey collection of 612 vols. on occultism; (e) All Souls collection of 2294 vols. on early sci. and theol.; (f) libr. of Leeds Philos. & Lit. Soc., presented in 1936; (g) Chaston Chapman chem. libr., about 3000 vols. and many thousands of pamphlets; (h) Chaston Chapman collection of early alchemical and sci. books, 1120 vols.; (i) Blanche Leigh collection of cookery books, largely of 17th & 18th cents., 1300 vols.; (j) Holden theol. libr. belonging to diocese of Ripon, 10,789 books & pamphlets; (k) Harold Whitaker collection of atlases and maps, about 450 vols.; (l) libr. of the Yorkshire Geol. Soc., presented in 1956. Apart from the Brotherton libr., there are the med. libr. (35,879 books & pamphlets), dent. libr. (2583 books & pamphlets), agric. libr. (39,890 books & pamphlets), textile libr. (8629 books & pamphlets), Inst. of Educn. libr. (18,418 books & pamphlets), law libr. (9067 books & pamphlets); also deptl. libraries with total stock of 29,859 books & pamphlets.

**MUSEUMS.** Agric., bot., dyeing, educn., forensic med., geol., mat. med., pathol., soc. studies (anthropol.), textiles, zool.

**LABORATORIES.** Agric. chem., anæsth., anat., biochem., biomolecular structure, bot., cancer, chem., chem. engin., chem. pathol., coal gas & fuel technol., colour chem. & dyeing, dent., electronic computing, engin. (electr., civil, mech.), forensic med., geol., leather industries (incl. Procter internat. res.), man-made fibres, maths., med., med. phys., metall., mining, obstet., pathol. & bacteriol., pharm. & pharmacol., phys., physiol., rheumatol., surg., textiles, zool.

**RESEARCH INSTITUTE OF AFRICAN GEOLOGY, LEEDS.** Founded in 1955 with donation of £100,000 by Anglo American Corporation of South Africa. Dir.—Prof. W. Q. Kennedy, DSc Glas., FRS.

**HOSPITALS available for clinics:** Infirmary (590 beds), Women's H. (103 beds), Maternity H. (112 beds), St. James H. (280 beds), Seacroft H. (30 beds).

**OUTLYING DEPTS., ETC.** Univ. experimental stn. (pt. of dept. of exper. pathol. & cancer res.), Lumby Hall, S. Milford, Leeds; univ. farm (pt. of dept. of agric.), Headley Hall, nr. Tadcaster; marine biol. lab., Robin Hood's Bay, Yorks. Non-residential centres for dept. of adult educn. & extra-mural studies, Morningside Villas, Bradford and 'Briarfield', Middlesbrough.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', above). Constituted in 1948, the inst. exists primarily to further and co-ordinate the trg. of teachers, and to recommend to the Ministry of Educn. for qualified teacher status students, both grad. and non-grad., who have satisfactorily completed a course of teacher trg. The inst. provides facilities for the study of and res. in educn. and acts as a centre of discussion and activity for teachers and others concerned with educn. (see also 'Diplomas', below). It comprises the following constituent member instns.: the univ. dept. of educn.; Bingley Trg. Coll.; Bretton Hall; Carnegie Coll. of Phys. Educn.; City of Leeds Trg. Coll.; Huddersfield Trg. Coll.; Ilkley Coll. of Housecraft; Leeds Coll. of Art (Teacher Trg. Dept.); Leeds Day Trg. Coll.; Margaret McMillan Memorial Trg. Coll.; North Riding Trg. Coll.; Ripon Trg. Coll.; St. John's Coll., York; Yorkshire Trg. Coll. of Housecraft; and the following associated member instns.: dept. of adult educn. & extra-mural studies; dept. of pædiatrics & child health; dept. of phys. educn.; dept. of psychiatry; dept. of psychol.; Woolley Hall (near Wakefield: residential coll. for teachers' refresher courses).

**ADMISSION.** See Appendix II. Non-members of the univ. may be admitted to read for dipl. or other non-grad. qualifs. or to attend courses of tuition or pursue res. not leading to qualifs. of the univ.

**FIRST DEGREES.** BA in general or spec. studies —3 yrs.; hons. awarded to candidates attaining sufficiently high standard. Courses in the following spec. schs.: Gk. lang. & lit., Lat. lang. & lit., classics, Lat. with Gk., Semitic langs. & lit., English, French lang. & lit., French and Latin lang. & lit., Spanish lang. & lit., Italian lang. & lit., German lang. & lit., Russian lang. & lit., mod. langs. & lit., hist., philos., philos. and one other subj., geog., theol., bibl. studies, music, econ., econ. with stats., sociol., sociol. & philos., political studies, maths., textile design, textile management. Hons. students of mod. langs. normally spend 1 term at an approved foreign univ. BCom —3 yrs.; hons. awarded to candidates attaining sufficiently high standard. The degree may be taken with accty., with law, with an appl. sci. or with agric. econ. as the principal subj., along with econ.; supplementary textile subjs. may be combined with a BCom course. LLB—



not less than 3 yrs., ord. or hons. degree; hons. candidates take addnl. courses and exams. The dept. of law prepares students for the bar and solicitors' exams. as well as for the univ. degrees. BSc in general or spec. studies (in pure sci.)—not less than 3 yrs.; hons. awarded to candidates attaining sufficiently high standard. Courses in the following spec. schs.: maths. (3 or 4 yrs.); phys. (3 or 4 yrs.); chem. (3 or 4 yrs.); zool. (4 yrs.); bot. (4 yrs.); geol. (4 yrs.); physiol. (4 yrs.); psychol. (3 yrs.); human & compar. anat. (4 yrs.); bacteriol. (4 yrs.); biochem. (4 yrs.); pharmacol. (4 yrs.); pharmacy (3 yrs.); geog. (3 yrs.). BSc hons. or ord. (in appl. sci.): ord. courses—3 yrs.; most hons. courses—4 yrs., but suitably qualified candidates may be permitted to complete the course in 3 yrs. Courses in the following schs.: civil engin.; mech. engin.; electr. engin.; mining; gas engin.; gen. fuel sci.; ceramics; metall.; chem. engin.; chem. of leather manufacture; colour chem. & dyeing; agric.; textile indust.; agric. bacteriol. (hons. sch. only); agric. bot. (hons. sch. only); agric. chem. (hons. sch. only); agric. econ. (hons. sch. only); agric. zool. (hons. sch. only). MB ChB—not less than 4 yrs. 3 mos.; BChD—not less than 4½ yrs.; hons. awarded to candidates attaining sufficiently high standard.

**HIGHER DEGREES.** BD, BMus, MA, LL.M., MCom, MChD, 1 yr. (only grads. of Leeds can obtain the MA in 1 yr.); MEd, MSc, 2 yrs. (for hons. BSc, 1 yr.). Grads. of approved univs. may obtain the MA, PhD or MSc by 2 yrs. of res. Grads. of this univ. may make applicn. for the LittD, DMus, DD, LLD or DSc in the 6th yr. after graduation; MD, 3 yrs. after graduation; ChM, 5 yrs. after graduation. Grads. of other univs. who have been admitted to degrees of equal or similar rank in Leeds may, in proceeding to higher degrees, count their standing as grads. from the date of original graduation.

**HONORARY DEGREES.** LittD, LLD, DMus, DD, DSc, MA, MSc.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Pub. admin., 3 yrs. pt.-time; Hebrew, Spanish, 2 yrs. pt.-time; soc. studies, 2 yrs. (1 for grads.); theol., 3 yrs.; dyeing, leather manufacture, mining engin., textile industries, 3 yrs., reducible under certain conditions to 2; colour chem., dent. surg. (LDS), 4 yrs. Dipls. of Inst. of Educn., open to trg. coll. lectrs. and serving teachers (grad. or non-grad.) with at least 5 yrs.' approved teaching experience; primary educn., sec. educn., educn. of backward children, phys. educn., religious educn., each 1 yr. full-time.

**POSTGRADUATE DIPLOMAS.** Agric. bacteriol., agric. bot., agric. chem., agric. econ., agric. zool., agric. (farm management), appl. geophys., ceramics, chem. engin., concrete technol., electronic computing, Engl. studies, fuel sci., gas engin., hist. & philos. of sci., leather manufacture, metall.,

mineral dressing & coal preparation, textile industries, 1 yr. (sometimes 2) after graduation; pub. health, 18 mos. pt.-time; psychol. med., 3 yrs.; nursing, 4 yrs.' hosp. trg. and 3 terms' lectures.

**CERTIFICATES.** Grad. cert. in educn., 1 yr.; grad. cert. in educnl. studies, 1 yr.; nurse teacher's, 1 yr. (for S.R.N.s with 3 yrs.' experience plus 1 yr. as ward sister); health visitors, 1 yr. (for S.R.N.s with C.M.B. pt. I); in Arabic, 2 yrs. pt.-time; in Russian, min. 2 yrs. pt.-time; in teaching of Hebrew and teaching of Arabic, 1 yr., for holders of dipl. in Hebrew or in Arabic or equivalent qualif. Extension certs. in a wide range of subjs., min. 3 acad. sessions.

**RESEARCH.** Facilities are available in all depts. for postgrad. study and res. Postgrad. students may be admitted to attend courses of tuition or to pursue res. not leading to a qualif. of the univ. Arrangements should be made with the hd. of the dept. concerned; preliminary enquiries about fees, etc., should be addressed to the registrar. The univ. publishes an annual pamphlet, *Publications & Titles of Theses*, and the Inst. of Educn. a bulletin of *Researches & Studies* twice yrly.

**SABBATICAL AND STUDY LEAVE.** Sabbatical leave may be given by the council to members of staff after 10 yrs.' service. There is no specified min. previous service for applicants. for study leave, and every reasonable effort is made to enable a member of staff to have study leave at times most profitable to himself.

**FEES.** *Inclusive annual academic fees* (covering tuition, exam. and degree fees and, unless otherwise stated, membership of univ. union). First degrees: BA, £57 (BA spec. in textile design or textile management, £67); BCom with accty. or stat., £57 (BCom with agric. econ. or a technol. subj., £67); BMus, £37; LL.B., £57; BSc, £67 (BSc spec. in maths. or geog., £57); MB ChB, £67; BChD, £67. Postgrad. degrees: BD (grads. of the univ.), £37 (1-yr. course), 2-yr. course: £32 (1st yr.), £22 (2nd yr.), BD (others), £32; MA, MCom, LL.M. (grads. of the univ.) with supervision, £32 (1st yr.), £12 (2nd and subsequent yrs.); without supervision (single payment), £15\*; MA, MCom (others), £37; LL.M. (others), £32 (1st yr.), £17 (2nd and subsequent yrs.); MEd (2-yr. full-time course), £32 (grads. of the univ.), £37 (others); MEd (3-yr. part-time course), £24 (grads. of the univ.), £27 (others); LittD, DD, DMus, LLD, £30\*; MSc with lab. facilities, £47; MSc with supervision but without lab. facilities, £32 (1st yr.), £12 (2nd and subsequent yrs.); MSc without supervision (single payment), £15\*; DSc, £30\* (maths. or geog.), £40\* (other subjs.); ChM, MChD, MD, £25\*; PhD in arts, econ., soc. studies, law, £37 (candidates studying at the univ.), £30\* (candidates studying at other approved instns.; single payment), PhD in sci., £37 (candidates studying maths. or geog. at the

\* This fee does not entitle the student to membership of univ. union

univ.), £47 (candidates studying other subjs. at the univ.), £30 \* (candidates studying at other approved instns.; single payment); PhD in technol., £47 (candidates studying at the univ.), £30 \* (candidates studying at other approved instns.; single payment). Dipls.: Hebrew, £37 (as 2-yr. course, £15 \* p.a.); theol., £44; Spanish, £9 \*; educn. of backward children, primary educn., and sec. educn., £67 (full-time), £30 \* (pt.-time); religious educn., £15 \*; phys. educn., £92; pub. admin., £25 \* (£20 \* for 3rd yr.); soc. studies, £57 (1st yr.), £47 (2nd yr.), £47 or £57 (as 1-yr. course); postgrad. dipl. in concrete technol., £47; postgrad. dipl. in Engl. studies, £100; other postgrad. dipls. in technol., £67; non-grad. dipls. in technol. and science, £67; pub. health, £50 \* (1st yr.), £30 \* (2nd yr.); psychol. med., £55 \* (pt. 1), £80 \* (pt. 2); dent. surg., £67; nursing, £28 \*. Certs.: grad. cert. in educn., £67; grad. cert. in educnl. studies, £67; Russian, Arabic, teaching of Hebrew, separate lecture fees; nurse teacher's cert., £55 \*.

**DEPARTMENT OF ADULT EDUCATION AND EXTRAMURAL STUDIES** (see also 'Teaching Staff', above). Dept. of extra-mural studies, instituted in 1946; present title adopted 1952. Vacation courses, extension lecture courses and tutorial classes provided, the latter in co-operation with the W.E.A. and L.E.A.s. The dept. has assumed responsibility throughout the extra-mural areas for the admin. of civilian aid in educn. for H.M. Forces.

**VACATION COURSES.** Advanced and specialized courses arranged by the dept. of adult educn. & extra-mural studies. Vac. courses for postgrad. students in assocn. with other depts. Details from sec., dept. of adult educn. The Inst. of Educn. arranges courses for teachers (details from sec. of inst.).

**PRINCIPAL 'OPEN' AWARDS** for first degree. Number of entrance scholps. offered annually for award to successful applicants after open competition; monetary value of many of these awards may be supplemented by the Ministry of Educn. Full particulars in prospectus, *Scholarships & Fellowships*, obtainable from registrar.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825. *Gregory fellowships in the creative arts.* The object of the scheme is to bring younger creative artists into close touch with the univ. community. During their tenure (normally 2 yrs.) the fellows live in Leeds, are members of the fac. of arts in the univ. and are wholly free to continue the practice of their arts. They are asked to make themselves freely accessible to students and staff and frequently give informal demonstrations and hold discussions.

**ACADEMIC SESSION.** Oct. to June or July, 3 terms of 10 weeks each.

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', above.) Halls of residence for

women (fees: £154 to £160 per session): Weetwood Hall, Far Headingley, Leeds, 16 (tel.: warden, 53548, students 51771), 93 students; Oxley Hall, Far Headingley, Leeds, 16 (tel.: warden 55181, students 51717), 131 students; Lupton Hall, Wood Lane, Headingley, Leeds, 6 (tel.: warden 57510, students 52521), 35 students; Ellerslie Hall, Lifton Place, Leeds, 2 (tel.: warden 29422, students 25774), 24 students; Tetley Hall, Moor Rd., Leeds, 6 (tel.: warden 52067, students 56744), 90 students. Halls of residence for men (fees: £171 per session): Devonshire Hall, Cumberland Rd., Leeds, 6 (tel.: 52641), 174 students; Lyddon Hall, Virginia Rd., Leeds, 2 (tel.: warden 21276, students 21248), 56 students; Woodsley Hall, Clarendon Rd., Leeds, 2 (tel.: warden 21361, students 23124), 47 students; Sadler Hall, Church Lane, Adel, Leeds, 16 (tel.: warden 678074, students 673442), 33 students; Croft Hall, Hyde Terrace, Leeds, 2 (tel.: warden 21153, students 23949) (hostel for maternity clerks).

**Lodgings:** a joint cttee. of senate and council supervises lodgings for men and women students. There is a full-time warden of lodgings (for men's lodgings) and a warden of women students in lodgings.

**APPOINTMENTS BOARD.** (For staff, see 'Admin. and Other Staff', above.) The bd. exists to give advice and information to students and grads. about careers and to help them to obtain posts. The bd. deals with all types of appts. for which grads. may be suitable.

**OVERSEAS STUDENTS' COMMITTEE.** A warden of overseas students (see p. 936) advises overseas students in the univ. on their personal and academic problems, helps in bringing them into closer contact with people in the univ. and its neighbourhood and to arrange for them to see different aspects of the British way of life.

**OLD STUDENTS' ASSOCIATION.** Formed in 1923; now has branches in various parts of the country. Hon. secs.: Mrs. Bertha Keightley and Dr. K. D. Parker.

**DEPARTMENT OF STUDENT HEALTH.** Instituted 1949. Provides an advisory and preventive med. service for students, incl. emergency med. treatment, periodical med. exams. and annual X-ray exams. A sick-bay is provided, under the care of a resident nursing sister.

**OFFICERS TRAINING CORPS (T.A.), AIR TRAINING SQUADRON AND WOMEN'S ROYAL ARMY CORPS (T.A. sub-unit).** Information as to conditions of membership, etc., of these units may be obtained from the commanding officers, while advice about service in the R.N. may be obtained from the naval liaison officer, Lt.-Commander C. W. Buckley.

**UNIVERSITY UNION.** All students of the univ. are members of the univ. union and have full use of all the union facilities, which incl. a theatre,

\* This fee does not entitle the student to membership of univ. union

cafeteria, coffee lounge, Mouat Jones lounge used by both staff and students, library, television room, billiards room and numerous common rooms and cttee. rooms. The official journal of the union is *The Gryphon*. The *Union News* is publ. fortnightly. There are over 80 socs. and 36 athletic clubs to provide a large range of indoor and outdoor interests and activities for students. The union, besides providing a club for students, fulfils the function, through its pres. and cttee., of a student representative council. The univ. athletic grounds are at Weetwood, Leeds, 16, and the univ. boat-house is at Swillington, near Leeds. The permanent staff comprises a clerk to the union and two clerical assts.

**PUBLICATIONS.** *Calendar*, Oct., 15s. plus postage; *Register of Graduates*, 1904 to Dec. 1955, 5s. plus postage; *Gazette*, 6d. per issue, post free; fac. & depl. *Prospectuses*; *Courses in*

*Pure Science* (advisory pamphlet); *Publicns. & Titles of Theses*, annually 1927-38 and 1950 to the present, 6d. each post free; inaugural lectures; *Univ. of Leeds Review*, 4s. p.a. or 2s. 6d. per issue; *The Private Donor in the History of the Univ. of Leeds*, E. J. Brown, 5s. post free; *The Univ. of Leeds: the First Half-Century*, Prof. A. N. Shimmin, 1954, 21s.; *Univ. of Leeds Med. Journal*, 3 issues p.a., 15s.; *Researches and Studies (Inst. of Educn.)*, 2 issues p.a., 9s. 6d. or 5s. per issue post free; *Journal of the Houldsworth Soc.*, annually, 2s. 6d. post free; *Leeds Univ. Poetry*, annually, 2s. 6d. plus postage; *Poetry and Audience*, wkly., 1d.; *Journal of the Leeds Univ. Mining Soc.*, annually, 3s. post free; *Engineering Soc. Journal*, annually, 2s. post free. Student publicns.: *Univ. Union Handbook*; *The Gryphon* (magazine), 3 issues p.a., 3s.; *Geste*, 12 issues p.a., 6s.; *Counterpoint*, 5 issues p.a., 2s. 6d.; *Union News* (fortnightly newspaper).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Worshipful Co. of Clothworkers, £10,500 towards maintenance of clothworkers' depts.; Internat. Wool Secretariat, £11,400 for res. in clothworkers' depts.; Nuffield Foundation, £10,800 for res.; the late Prof. J. Wright bequest, £22,700.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: major extensions to chem. and phys. bldgs.; stage I of new arts bldg.; constrcn. of new lecture theatre for geol.

**RETIREMENTS.** J. W. Baker (org. chem.); Prof. D. Burton (leather); J. Ewles (phys.); L. G. Johnson (econ.); F. A. Long (phys.); A. E. Pybus (adult educn. & extra-mural studies); Prof. T. T. Read (dent.); W. S. Stuart (electr. engin.); Prof. H. C. Versey (geol.).

**RESIGNATIONS.** Prof. W. A. Bain (pharm.); K. Bowden (org. chem.); J. Bowman (Semitics); Mrs. K. M. Carr (dent.); A. C. Cawley (Engl. lang.); C. C. D. Chandler (anæsth.); D. W. Crowley (adult educn. & extra-mural studies); M. de Sausmarez (fine art); E. W. Dixon (pub. health), apptd. to chair of prev. med., Otago; F. D. C. Henry (civil engin.); J. H. Higginson (inst. of educn.); J. A. Holgate (physiol.); J. T. Ingram (dermatol.), apptd. to chair of dermatol., Durh.; M. A. Jeeves (psychol.), apptd. to chair of psychol., Adel.; R. Jones (civil engin.), apptd. to chair of engin., Ghana; J. C. Leopold (pathol.); B. H. McCracken (med.); P. D. A. Mole (chem. engin.); L. F. Neal (educn.); Prof. W. R. Niblett (inst. of educn.), apptd. dean, Lond. inst. of educn.; Prof. N. J. Petch (metall.), apptd. to chair of metall., Durh.; Prof. S. E. Toulmin (philos.).

**DEATHS.** Col. C. H. Tetley (pro-chancellor, 1926-46); W. A. Singleton (Hoffman Wood prof. of archit., 1959-60).

**HONORARY DEGREES.** *LLD*—Sir Edward Hale, formerly sec., Univ. Grants Cttee.; Rt. Hon. the Earl of Harewood; Hon. Sir Raymond Hinchcliffe, judge of High Court of Justice, Queen's Bench Div.; Hon. P. Sherlock, actg. principal, Univ. Coll. of the West Indies; Sir Harold Smith, chairman, Gas Council. *LatD*—Prof. A. Ewert, prof. of romance langs., Oxford; Very Rev. Dr. N. Sykes, dean of Winchester. *DSc*—Mrs. D. M. Hodgkin, reader in X-ray crystallography, Oxford; Sir Rudolph Peters, formerly Whitley prof. of biochem., Oxford; Dr. J. E. Salk, Commonwealth prof. of exper. med., Pitt.

## Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	3625	194
Women . . .	1030	36
Total	4655	230

**Distribution by Faculties.** *Arts*, 1509; *econ. & soc. studies*, 306; *law*, 151; *med.*, 618; *sci.*, 864; *technol.*, 1437. Total: 4885.

*Included in the figures above are:—*

Postgraduate students, 710.

New admissions, 1550.

Students from other countries, 491. (Countries

from which largest numbers came : India, 88 ; Africa, 76 ; Germany, 27 ; Turkey, 27 ; Norway, 25).

DEGREES AWARDED (1958-59). *Arts* : BA, 31 ; BA (hons.), 255 ; MA, 15 ; MEd, 2. *Econ. & soc. studies* : BA, 11 ; BCom, 2 ; BA (hons.), 39 ; BCom (hons.), 18 ; MA, 1. *Law* : LLB, 1 ; LLB (hons.), 19. *Sci.* : BSc, 19 ; BSc (hons.), 145 ; MSc, 2. *Technol.* : BSc, 62 ; BSc (hons.), 124 ; MSc, 12 ; DSc, 1. *Med.* : MB ChB, 49 ;

BChD, 15 ; MB ChB (hons.), 2 ; BChD (hons.), 1 ; MD, 3 ; ChM, 1 ; MSc, 1. PhD (all facs.) : 66. *Total number of first degrees awarded, 793.*

DIPLOMAS AND CERTIFICATES AWARDED (1958-1959). Engl. studies, 5 ; educn. (grad. cert.), 119 ; primary educn., 18 ; sec. educn., 7 ; backward children, 6 ; phys. educn., 6 ; religious educn., 14 ; soc. studies, 12 ; technol., 62 ; pub. health, 13 ; psychological med., 3 ; dental surg.,

# UNIVERSITY OF LEICESTER\*

Founded 1957; previously established as a University College, 1918

Postal Address: University Road, Leicester, England

Cables and Telegrams: University Leicester

Telephone: Leicester 24211

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. LORD ADRIAN, OM, Hon. DSc Penn., Oxon., Harv., Lyons, Lond., Manc, Durh., Johns H., Belf., Wales, N.Y., Sheff., Hull, Brazil, Bologna, Freib., Paris & Leic., Hon. LLD McG., St. And., Glas., Liv. & Dal., Hon. MD Brussels, Louvain & Montr., MA MD Camb, FRS, FRCP

PRO-CHANCELLORS—H. P. GEE, CBE, Hon. LLD, JP; C. R. KENE, CBE, JP

VICE-CHANCELLOR—C. H. WILSON, MA Glas. & Oxon., Hon. LLD Glas.

PRO-VICE-CHANCELLOR—Professor J. SIMMONS, MA, FRHistS, FRSL

REGISTRAR—H. B. MARTIN, BCom Lond., FCIS

LIBRARIAN—RHODA BENNETT, MA Lond., FLA

## TEACHING STAFF

[† = Part-Time]

### Archæology, British

Thomas, S. E., MA Camb.

Wacher, J. S., BSc Lond.

Lectr.

Asst. Lectr.

### Biochemistry

Kornberg, H. L., BSc PhD Sheff.,  
MA Oxon.

Prof.

### Botany

Tutin, T. G., MA Camb., FLS

Conolly, Ann P., MA Camb.

Wangermann, Elisabeth, MSc PhD Manc.

Tutin, Mrs. Winifred, BSc PhD R'dg.

Prof.

Lectr.

Lectr.

Sp. Lectr.

Asst. Lectr.

Halliday, G., BA Camb.

### Chemistry

Hunter, L., DSc PhD Lond., FRIC

Prof., Hd. of Dept.

Symons, M. C. R., DSc PhD Lond.

(Phys. Chem.) Prof.

Eaborn, C., DSc PhD Wales

Reader

Peeling, E. R. A., BSc PhD Lond., FRIC

Sr. Lectr.

Harvey, S. H., BSc PhD Lond.

Lectr.

Shaw, Florence R., BSc PhD Leeds, FRIC

Lectr.

Bott, R. W., BSc Belf.

Lectr.

Davidson, I. M. T., BSc PhD St. And.

Lectr.

Smith, J. D., BA PhD Camb.

Asst. Lectr.

Guthrie, R. D., BSc PhD Lond.

Asst. Lectr.

### Economics

Pool, A. G., BSc(Econ) PhD Lond.

Prof.

Birmingham, W. B., BSc(Econ) Lond. Sr. Lectr.

Conway, Freda C., BSc Lond., MA(Com)

Manc.

Lectr.

Groves, P. S., BSc(Econ) Lond., PhD Camb.

Lectr.

Ford, A. G., MA DPhil Oxon.

Lectr.

Donaldson, P., BA Oxon.

Asst. Lectr.

Briant, R. L. W., BA Nott.

Tut. Asst.

### Education, see also Inst. of Educn., below

Tibble, J. W., MA MEd Leeds

Prof.

Bantock, G. H., MA Camb.

Reader

Pedley, R., MA PhD Durh.

Sr. Lectr.

Roberts, I. E., BSc Wales

Lectr.

Wight, R. M., BL Aberd.

Lectr.

Collins, Mrs. Mildred, BSc Lond. & Birm.,

PhD Lond.

Lectr.

Flemming, W., MSc MA Liv.

Lectr.

Simon, B., MA Camb.

Lectr.

Richardson, G., MA Sheff.

Lectr.

Welford, M. F., BA Lond.

Lectr.

Kerr, J. F., BSc Liv., PhD Belf.

Lectr.

Wheeler, D. H., BSc Lond.

Lectr.

Austin, A., BA BSc(Econ) Lond.,

Lèsl Toulouse

Lectr.

Eaborn, Mrs. Joyce, BA Wales

† Lectr.

Hopkinson, Mrs. Iris W., BA Lond.

† Lectr.

### Engineering

Parkes, E. W., MA PhD Camb.

Prof.

\* Member of the Association of Universities of the British Commonwealth

Brown, J. E., BSc *Durh.*, PhD *Sheff.* Sr. Lectr.  
 Cutteridge, O. P. D., MSc(Eng) PhD *Lond.*  
 Sr. Lectr.  
 Maxwell, R. W., BSc *Lond.*, PhD *Manc.* Sr. Lectr.  
 Cockrell, D. J., DIC, BSc *Lond.* Lectr.

**English**

Humphreys, A. R., MA *Camb.*, AM *Harv.* Prof.  
 Hoggart, H. R., MA *Leeds* Sr. Lectr.  
 Jones, M. Monica B., MA *Oxon.* Lectr.  
 Luttrell, C. A., BA *Lond.* Lectr.  
 Craik, T. W., MA PhD *Camb.* Lectr.  
 Fraser, G. S., MA *St.And.* Lectr.  
 Draper, R. P., BA PhD *Nott.* Lectr.  
 Macrae-Gibson, O. D., MA *Oxon.* Lectr.  
 Knight, Ann, BA Tut. Asst.

**French**

Sykes, J. C., MA *Sheff.*, DPhil *Oxon.* Prof.  
 Hemmings, F. W. J., MA DPhil *Oxon.* Reader  
 Favre, A. C., LèsL *Toulouse* Lectr.  
 Hampton, J., BA *Sheff.*, DU *Paris* Lectr.  
 Ince, W. N., MA *Camb.*, DU *Paris* Lectr.  
 Harris, R., BA DPhil *Oxon.* Lectr.  
 Matthews, J. H., BA *Wales*, DU *Montpellier* Lectr.  
 Hoy, P. C., MA *Wales* Asst. Lectr.  
 Topliss, Patricia, BA *Lond.* Tut. Asst.  
 2 Lecteurs/Lectrices

**Geography**

Pye, N., BA *Manc.* Prof.  
 Kirk, W., BA *Lond.* Sr. Lectr.  
 Millward, R., MA *Camb.* Lectr.  
 Robinson, A. H. W., MSc *Lond.* Lectr.  
 Warren, K., BA PhD *Camb.* Lectr.  
 Wallwork, K., MA *Manc.* Lectr.  
 Oldfield, F., BA *Liv.* Lectr.  
 Rice, R. J., MA *Lond.* Lectr.  
 Jones, H. R., BA *Wales* Tut. Asst.

**Geology**

Sylvester-Bradley, P. C., BSc *R'dg.*, FGS Prof.  
 Whitaker, J. H. McD., MA *Camb.*,  
 BSc *Lond.*, FGS Lectr.  
 Ford, T. D., BSc PhD *Sheff.*, FGS Lectr.  
 Evans, A. M., BSc *Liv.* Lectr.

**German**

Powell, P. H., MA *Wales*, DPhil *Rostock* Prof.  
 Willson, H. B., MA *Camb.* Lectr.  
 Majut, R., DPhil *Greifswald* Hon. Lectr.  
 Bridgwater, W. P., BA BLitt *Oxon.* Lectr.  
 Ellis, J. M., BA *Lond.* Asst. Lectr.  
 † Lektor

**Government**, see Pol.

**Greek**, see Latin and Greek

**History**

Simmons, J., MA *Oxon.*, FRHistS, FRSL Prof.

Evans, Mrs. Anne K. B., BA PhD *Lond.*,  
 FRHistS, FSA Lectr.  
 Evans, R. H., MA *Oxon.* Lectr.  
 Scarfe, N., MA *Oxon.* Lectr.  
 Newman, A. N., MA *Glas. & Oxon.*,  
 DPhil *Oxon.* Asst. Lectr.  
 Helmstadter, R. J., BA *Yale*, MA *Col.* Tut. Asst.

**History, Economic**

Dyos, H. J., BSc(Econ) PhD *Lond.* Lectr.  
 Martin, G. H., MA DPhil *Oxon.*, FRHistS Lectr.  
 Crispin, Barbara, BSc(Econ) *Lond.* Asst. Lectr.

**History, English Local**

Finberg, H. P. R., MA DLitt *Oxon.*, FSA,  
 FRHistS Reader, Hd. of Dept.  
 Thirsk, Mrs. I. Joan, BA PhD *Lond.*  
 (Agrarian Hist.) Sr. Res. Fellow  
 Everitt, A. M., MA *St.And.*, PhD *Lond.*  
 (Urban Hist.) Res. Fellow  
 Midgley, Laura M., MA *Manc.*  
 (Agrarian Hist.) Res. Asst.

**History of Science**

Hoskin, M. A., MA *Lond.*, PhD *Camb.* † Lectr.  
 Brock, W. H., BSc *Lond.* Tut. Asst.

**Latin and Greek**

Wasserstein, A., BA PhD *Lond.* Prof.  
 Rushworth, E., MA *Camb.* Lectr.  
 Spire, Sheila G., BA *Camb.* Lectr.  
 Cloud, J. D., BA *Oxon.*, BLitt *Glas.* Lectr.  
 Cloud, Mrs. Jean A., BA *Oxon.*,  
 MA *Bryn Mawr* Asst. Lectr.

**Mathematics**

Goodstein, R. L., BA MSc *Camb.*, DLitt  
 PhD *Lond.* Prof.  
 Whitfield, E. V., MA *Camb.*, BSc *Manc.* Sr. Lectr.  
 Primrose, E. J. F., MA *Oxon.*, PhD *Lond.* Sr. Lectr.  
 Downton, H. F., DIC, BSc *Lond.* Sr. Lectr.  
 Buckley, R., MSc *Lond.* Lectr.  
 Davies, R. O., MA PhD *Camb.* Lectr.  
 Knight, A. J., MSc *Lond.*, PhD *Camb.* Lectr.  
 Weinmann, A., BSc PhD *Lond.* Lectr.  
 Rahman, N. A., MA *Alld.*, MSc *Calc.*,  
 PhD *Camb.* Asst. Lectr.  
 Twiddle, A., BSc *Lond.* Asst. Lectr.  
 White, D. J., BSc *Lond.* Asst. Lectr.

**Music**

Mulgan, D. M., BA BMus *Oxon.* Dir.

**Philosophy**

Nowell-Smith, P. H., MA *Oxon.*, AM *Harv.* Prof.  
 Harré, H. R., MA BSc *N.Z.*, BPhil *Oxon.* Lectr.  
 Nerlich, G. C., MA *Adel.*, BPhil *Oxon.* Asst. Lectr.  
 Romney, Gillian, BA *Oxon.* Asst. Lectr.

Murray Hall, Manor Rd. (tel. : warden, Oadby 2263), 80 students ; Salisbury Hall, Salisbury Rd. (tel. : warden, Leicester 21817), 75 students.

**APPOINTMENTS.** An appts. service, under the direction of the registrar, is provided for present and former students.

**STUDENTS' UNION** (tel. : Leicester 59658). All full-time students are required to be full members of the students' union, which controls the 60 clubs and socs. which organize its social, cultural and athletic activities.

**ATHLETIC FACILITIES.** Two athletic grounds and pavilions are available: one at Wigston Fields, with pitches for cricket, hockey and rugby, and hard tennis courts; the other at University Fields, Oadby (Fields House, Manor Road (tel. : Oadby 864)), with a first-class cinder running track, hard tennis courts, and pitches for cricket, soccer and hockey; the boat-house is at Abbey Meadow.

**GRADUATES' ASSOCIATIONS.** For convocation, see 'Constitution', *above*. The Old Students'

Assoc. holds a reunion in Sept. each yr., and keeps members in touch with each other and with univ. activities and developments by means of regular *News Letters*.

**PUBLICATIONS.** *Calendar* (annually), *Handbook* (annually), *Gazette* (terminally), *Report and Accounts* (annually), *Publications List* (annually), *Institute of Education Handbook*, *Journal of Transport History* (half-yearly), *Philosophical Books* (quarterly), *English Local History Occasional Papers* (two or three annually), *Leicester and its Univ.*, by Prof. J. Simmons (1957), *New University*, a history of the Univ. Coll., by Prof. J. Simmons (1958), 15s., *Inaugural Lectures*, students' union magazine *The Luciad*.

**UNIVERSITY PRESS.** The univ., through the Leicester Univ. Press, regularly publishes books and papers of an academic character. Details are given in the *Publicns. List*. issued by the press

**UNIVERSITY BOOKSHOP.** There is a univ. bookshop, run by the univ. and open to the public, in the refectory and students' union bldg.

## THE YEAR 1959

**NEW DEPARTMENTS AND CHAIRS.** Dept. & chair of engin. ; dept. & chair of psychol. ; dept. & chair of biochem. ; chair of phys. chem.

**HONORARY DEGREES.** *DLitt*—Sir John Summerson, curator of Sir John Soane's Museum ; Emer. Prof. J. Dover Wilson, Shakespearean scholar. *DSc*—Prof. Sir William Hodge, phys. sec., Royal Society. *LLD*—Sir Robert Martin, chairman, Leicestershire County Council since 1924 ; Edmund Rubbra, composer and pianist ; Sir Charles Snow, scientist, novelist, old student of Leicester Univ. Coll. ; Joan Wake, founder and sec., Northants Record Soc.

**RESIGNATIONS.** C. A. Fisher (geog.), apptd. to chair at Sheff. ; Dr. J. R. S. Fincham (genetics), apptd. hd. of dept., John Innes Hort. Instn. ; E. W. Hughes (inst. of educn.), apptd. lectr., Leicester Coll. of Technol. & Comm.

**DEATH.** Dr. A. S. Collins (sr. lectr. in Engl.).

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	748	45
Women . . .	459	8
Total	1207	53

Distribution by Faculties. *Arts*, 389 ; *educn.*, 170 ; *sci.*, 472 ; *soc. scis.*, 229. Total : 1260.

*Included in the figures above are :—*

Postgraduate students, 230.

New admissions, 524.

Students from other countries, 54. (Country from which largest number came : Nigeria, 9).

**DEGREES AWARDED (1958-59).** *Arts* : BA, 98 ; MA, 3. *Educn.* : MEd, 2. *Sci.* : BSc, 72 ; MSc, 4 ; DSc, 1. *Soc. scis.* : BA, 29 ; MA, 5. PhD (all facs.) : 7. Total number of first degrees awarded, 199.

**DIPLOMAS AWARDED (1958-59).** *Educn.*, soc. studies, 15.

**CERTIFICATES AWARDED (1958-59).** Grad. educn., 108 ; educn., 160.

# UNIVERSITY OF LIVERPOOL\*

Founded 1903 ; previously established as University College, Liverpool, 1881

*Postal Address* : Brownlow Hill, Liverpool 3, England

*Cables and Telegrams* : University, Liverpool

*Telephone* : Royal 6022

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Most Hon. THE MARQUESS OF SALISBURY, KG, Hon. DCL *Oxon.*, Hon. LLD *Manc., Camb., Lond. & Liv.*, Hon. LittD *Exe.*, FRS, JP

PRO-CHANCELLORS—D. NORMAN, MC, MA *Camb.*, Hon. LLD *McM.*, JP ; The Rt. Hon. THE VISCOUNT LEVERHULME, TD, BA *Camb.*, JP, President of the Council

VICE-CHANCELLOR—Sir JAMES F. MOUNTFORD, MA *Oxon. & Birm.*, DLitt *Birm.*, Hon. DCL *Oxon.*, Hon. LLD *Wales, Birm., Manc. & Alta.*, Hon. LittD *Dub.*

VICE-PRESIDENT OF THE COUNCIL—B. NELSON, CBE, JP

TREASURER—E. A. G. CARÖE, CBE, BA *Camb.*

DEPUTY-TREASURER—H. B. CHRIMES, MA *Camb.*

PRO-VICE-CHANCELLORS—Professor C. E. H. BAWN, CBE, BSc PhD *Brist.*, FRS ; Professor F. E. HYDE, MA PhD *Lond.*, FRHistS.

DEAN OF THE FACULTY OF MEDICINE—J. M. LEGGATE, MB ChB, FRCS

REGISTRAR—S. DUMBELL, OBE, MA

LIBRARIAN—.....

FINANCE OFFICER—R. LEWIN, FSAA

## TEACHING STAFF

[†=Part-Time]

**Accountancy**, see Comm.

### Anatomy

Harrison, R. G., MA DM *Oxon.* Derby Prof.  
 Branthwaite, J. L., MD *Manc.*, PhD Sr. Lectr.  
 Macmillan, E. W., MBE, MD *Edin.* Sr. Lectr.  
 Harrison, G. A., MA *Camb.*, MA DPhil *Oxon.*,  
 BSc *Lond.* (Phys. Anthropol.) Lectr.  
 Clegg, E. J., MB ChB *Sheff.*, PhD Lectr.  
 Bowsher, D. R., MA MD *Camb.* Lectr.  
 Brookes, M., MA BM BCh *Oxon.* Lectr.  
 Hughes, J. H., MD ChM, FRCS  
 (Appl. Surg. A.) †Lectr.  
 Whitaker, P. H., MD DMRE, FFR  
 (Appl. Radiol. A.) †Lectr.  
 Higham, J., MB ChB Cancer Res. Asst.

### Archæology

, see also Hist., Anc.

Fairman, H. W., MA (Egyptol.) Brunner Prof.  
 Powell, T. G. E., MA *Camb.*, FSA  
 (Prehistoric A. of W. Europe) Rankin  
 Sr. Lectr.

**Architecture**, see also Civic Des.

Gardner-Medwin, R., BArch Dipl Civic  
 Design, FRIBA Roscoe Prof  
 Wilkinson, S., BArch Sr. Lectr. & Studio Instr.

### Lecturers and Studio Instructors

Phillips, W. J., DiplArch *Cardiff*, Dipl  
 Civic Design  
 Morgan, B. G., BArch PhD Dipl Civic Design  
 Beech, G. R., BArch Dipl Civic Design  
 Thompson, J. S., TD, BArch  
 Pietka, L. J., IngArch *Polish Sch. of Archit. (Liv.)*,  
 Dipl Civic Design  
 Stewart, D. M., DA DipTP *Edin.*  
 Jones, F. M., BArch  
 Hughes, J. Q., MC, PhD *Leeds*, BArch  
 Dipl Civic Design  
 Huws, R. L., BEng

†Lecturer and Studio Instructor

Paterson, K. W., MCD BArch

Hon. Instr. in Architl. Craftsmanship

Smith, H. T., Hon. MA

Member of the Association of Universities of the British Commonwealth



**Bacteriology, see Medicine****Biochemistry**

Morton, R. A., PhD DSc, FRIC, FRS  
Johnston Prof.  
Glover, J., MSc *Belf.*, PhD  
Leverhulme Sr. Lectr.  
King, H. K., MA PhD *Camb.*, FRIC Sr. Lectr.  
Pitt, G. A. J., BSc PhD Lectr.  
Redfearn, E. R., BSc PhD Lectr.  
Green, C., BSc PhD Lectr.  
Hemming, F. W., BSc PhD Lectr.  
Taylor, W. H., MA DM *Oxon.*, MRCP  
(Clin. Biochem.) †Lectr.

**Botany**

Burges, N. A., MSc *Syd.*, PhD *Camb.*  
Holbrook Gaskell Prof.  
Heywood, V. H., BSc *Edin.*, PhD *Camb.*,  
FLS Sr. Lectr.  
Coult, D. A., MSc *Lond.* Lectr.  
Burrows, Mrs. Elsie M., BSc PhD *Lond.*,  
FLS Lectr.  
Dixon, P. S., MSc PhD *Manc.* Lectr.  
Hurst, H. M., BSc PhD *Lond.* Lectr.  
Parkinson, D., BSc *Lond.*, PhD *Nott.* Lectr.  
Boulter, D., MA DPhil *Oxon.* Lectr.  
Gray, T. R. G., BSc *Nott.* Asst. Lectr.  
Hulme, J. K. Hon. Lectr.  
Ratter, J. A., BSc PhD Demr.  
Cook, A. R., MSc *Lond.* Demr.

**Celtic**

Richards, G. M., MA *Wales*  
(Welsh) Sr. Lectr., Hon. Lectr. in  
Compar. Philol., Hd. of Dept.

**Chemistry, see also Biochem.**

Kenner, G. W., PhD ScD *Camb.*  
(Org. C.) Heath Harrison Prof.  
Bawn, C. E. H., CBE, BSc PhD *Brist.*, FRS  
(Inorg. & Phys. C.) Grant Brunner Prof.  
Hickling, A., DSc PhD *Sheff.*, FRIC  
(Phys. C.) Reader  
Whalley, W. B., DSc PhD, FRIC (Org. C.) Reader  
Senior Lecturers  
Butement, F. D. S., BSc PhD *Lond.* (Radiochem.)  
Beer, R. J. S., MA DPhil *Oxon.* (Org. C.)  
Holliday, A. K., BSc PhD *Leeds*  
(Inorg. & Phys. C.)  
Douglas, H. W., DSc PhD, FRIC  
(Inorg. & Phys. C.)  
Grimley, T. B., BSc PhD *Brist.*  
(Inorg. & Phys. C.)

**Lecturers**

Tipper, C. F. H., DSc PhD *Brist.*  
(Inorg. & Phys. C.)  
Dean, F. M., BSc PhD (Org. C.)  
Skirrow, G., BSc PhD *Lond.* (Inorg. & Phys. C.)  
Holker, J. S. E., MSc PhD (Org. C.)  
Sutcliffe, L. H., BSc *Lond.*, PhD *Leeds*  
(Inorg. & Phys. C.)  
Jackson, A. H., MA PhD *Camb.* (Org. C.)

Brennan, D., BSc PhD *Belf.* (Inorg. & Phys. C.)  
Margerison, D., BSc PhD (Inorg. & Phys. C.)  
Robinson, M. J. T., MA DPhil *Oxon.* (Org. C.)  
Sheppard, R. C., MA PhD *Camb.* (Org. C.)  
Ledwith, A., BSc *Lond.*, PhD (Inorg. & Phys. C.)  
Bradley, J. N., BSc PhD *Birm.*

(Inorg. & Phys. C.)  
Hughes, G., BSc PhD *Manc.* (Inorg. & Phys. C.)  
North, A. M., BSc PhD *Aberd.*

(Inorg. & Phys. C.)  
Bethell, D., BSc PhD *Lond.* (Org. C.)

Sr. Research Assistant  
Shaw, D. F., BSc PhD *Manc.* (Org. C.)

Research Assistant  
Wilde, Mrs. Marion I. H., PhD *Zür.* (Org. C.)

Demonstrators  
Locksley, H. D., MSc *N.S.W.U.T.* (Org. C.)

Hardy, P. M., BSc (Org. C.)

Hollowood, J., BSc (Org. C.)

Webster, B. R., BSc (Org. C.)

Assistant Lecturer  
Tomlinson, C., BA *Camb.*, MSc (Org. C.)

**Civic Design**

Wright, H. M., MA *Camb.*, FRIBA Lever Prof.  
McCaughan, R. E. M., MA BArch, FSA

Sr. Lectr.

Reynolds, Josephine P., MA BArch Lectr.

Brenikov, P., MA Dipl Civic Design  
Lectr. & Studio Instr.

Crompton, D. H.  
Leverhulme Res. Fellow & Lectr

Weddle, A. E., BArch DipTP *Durh.* Lectr.

**†Special Lecturers**

Taylor, A. J. E., LL.M.  
(Law Relating to Planning & Housing)  
Reed, C. D., MEng (Principles of Civic Engin.)

**Classics: Greek**

Armstrong, A. H., MA *Camb.* Gladstone Prof.

Pinsent, J., MA DPhil *Oxon.* Lectr.

Collard, C., BA *Camb.* Asst. Lectr.

Parker, Rev. Canon R. B., BSc *Lond.*,  
MA *Oxon.* (Hellenistic Gk.) Hon. Lectr.

**Classics: Latin**

Austin, R. G., MA *Oxon.*, Hon. DLitt *Glas.* Prof.

Bonner, S. F., MA *Camb.* Sr. Lectr.

Townend, G. B., MA *Oxon.* Lectr.

Barr, W., BA PhD *Lond.* Lectr.

**Commerce**

Parkinson, B. B., MSc(Econ) BCom *Lond.*,  
FCA (Accty.) Sr. Lectr.

**Dentistry, see below****Economics**

Hyde, F. E., MA PhD *Lond.*, FRHistS  
Chaddock Prof.

Shackle, G. L. S., BA PhD Lond.,  
DPhil Oxon. (Econ. Sci.) Brunner Prof.  
Clayton, G., MA Camb. Sr. Lectr.  
Robertson, W., MA St. And. Sr. Lectr.  
Please, S., MSc(Econ) Lond. Lectr.  
Marriner, Sheila, MA PhD Lectr.  
Parker, H. R., BA Lectr.  
Oshorn, W. T., MA Camb., BSc(Econ) Lond. Lectr.

Saul, S. B., BCom PhD Birm. Lectr.  
Cunningham, N. J., BA Lectr.  
Harris, J. R., MA PhD Manc. Lectr.  
Brechling, F. P. R., BA Dub. Lectr.  
Scanmell, W. McC., BCom Belf.,  
PhD Wales †Lectr.  
Keil, I. J. E., BA Brist. (Econ. Hist.) Tutor

### Education

Porteous, A. J. D., MA Edin. & Oxon.  
Sydney Jones Prof.  
Tempest, N. R., EdM Harv., MA  
Dir., Inst. of Educn., William Roscoe Prof.  
Land, F. W., MSc PhD Lond. Sr. Lectr.  
Murphy, J., MA PhD, FRHistS Sr. Lectr.  
Spence, Margaret E., MA Brist., PhD Lectr.  
Wallace, J. E., DMus Durh., FRCO  
(Music) †Sp. Lectr.  
Tozer, A. H. D., MA Camb. Lectr.  
Griffiths, J., MA, FRHistS Lectr.  
Moore-Rinvulcri, Mrs. Mina J., DU Stras.,  
MA Lectr.  
Larwood, H. J. C., MSc MED Durh. Lectr.  
Duncan, T., BSc St. And. Lectr.  
Hughes, W. J., BSc Wales, PhD Camb. Lectr.  
Steel, Mrs. Eileen M., MA Oxon.  
(Geog.) †Sp. Lectr.  
Robertson, G. S., MD Tor.  
(Physiol. & Sch. Hyg.) †Sp. Lectr.  
Brennell, Cicely D., MA (Mod. Langs.) Tutor  
Perks, M. T., MA BLitt Oxon.  
†Tutor & †Demr.  
Ainsworth, H. (Woodwork) †Teacher  
Murphy, Mrs. Anna-Britta (Weaving) †Teacher  
2 Supervisors in School Practice

### Egyptology

Fairman, H. W., MA Brunner Prof.  
Kitchen, K. A., BA (Egyptian & Coptic) Lectr.

### Engineering, see below

### English Language and Philology

Potter, S., MA Lond., BLitt Oxon.,  
PhD Prague Baines Prof.  
Colledge, E., MA Sr. Lectr.  
Bazire, Joyce, MA Leeds Lectr.  
Blake, N. F., MA BLitt Oxon. Asst. Lectr.

### English Literature

Muir, K., MA Oxon. King Alfred Prof.  
Allott, K. C. B., MA Durh., BLitt Oxon.  
A. C. Bradley Sr. Lectr.  
Davies, R. T., MA Oxon. Lectr.

Allott, Mrs. Miriam, MA PhD Lectr.  
Grundy, Joan, MA Lond. Lectr.  
Schanzer, E., MA Tor. Lectr.  
Bawcutt, N. W., MA Lectr.  
Hunter, G. K., MA Glas., DPhil Oxon. Lectr.  
Ewbank, Mrs. Inga-Stina, MA Sheff. Asst. Lectr.

### Entomology, see Parasitol.

### Esperanto

Lamb, N. J., MA †John Buchanan Lectr.

### French

Fletcher, F. T. H., MA DLitt Birm.,  
DUNancy James Barrow Prof.  
Linskill, J., DU Stras., MA Durh. Sr. Lectr.  
Knowles, Dorothy, MA Leeds, DèS L Paris Lectr.  
Cullerne, A. C., MA Lectr.  
Rees, G. O., MA Wales Lectr.  
Zaina, Lucrezia A., MA Lectr.  
Chadwick, C., DU Paris, MA Lectr.  
Williams, Margaret A., MA PhD Lond. †Asst.  
2 Tutors

### Genetics

Sheppard, P. M., MA DPhil Oxon. Reader  
Walker, S., BSc PhD Leeds Lectr.  
Cox, B. S., BA Oxon. Asst. Lectr.

### Geography

Steel, R. W., BSc MA Oxon. Rankin Prof.  
Lawton, R., MA Lectr.  
Learmonth, A. T. A., MA PhD Edin. Lectr.  
Gregory, S., MA PhD, FRMetS Lectr.  
Simpson, E. S., MA Lectr.  
Brooks, E., MA PhD Camb. Lectr.  
Patmore, J. A., MA BLitt Oxon. Lectr.  
Prothero, R. M., MA Wales Lectr.  
Driscoll, E. M., MSc Lond. Lectr.  
Harley, J. B., BA PhD Birm. Asst. Lectr.  
Gresswell, R. K., MA PhD, FGS †Sp. Lectr.  
Bower, Margaret M., MSc Lond. Asst. Lectr.

### Geology

Shackleton, R. M., BSc PhD  
George Herdman Prof.  
Harper, J. C., MSc Lond., PhD, FGS Sr. Lectr.  
Wilson, C. D. V., MA PhD Camb. Lectr.  
Bathurst, R. G. C., MSc Lond., FGS Lectr.  
Flinn, D., BSc PhD Lond., FGS Lectr.  
Rast, N., BSc Lond., PhD Glas., FGS Lectr.  
Phillips, E. Awen, BSc Wales Demr.

### German

Williams, W. D., MA DPhil Oxon. Prof.  
Wirtz, Erika A., MA Lectr.  
Barker, D., MA Lectr.  
Fox, W. H., MA Lectr.  
Harrison, L., BA Birm. Asst. Lectr.  
Leaver, Jean M., MA Lond. Asst. Lectr.

**Hebrew and Ancient Semitic Languages**

Martin, W. J., MA *Dub.*, PhD *Leip.*  
Rankin Sr. Lectr.

**Hispanic Studies**

Sloman, A. E., MA *Oxon.* & *Dub.*,  
DPhil *Oxon.* (Spanish) Gilmour Prof.  
de Lara, Maria V., LicenFil&Let *Madrid*  
(Spanish) Lectr.  
Hall, H. B., MA (Spanish) Lectr.  
Lamb, N. J., MA (Portuguese & Spanish) Lectr.  
Crespo, F. de D., LicemLet *Lisbon*  
(Portuguese) Lectr.  
Molas Battlori, J., DenF&L *Barcelona*  
(Spanish & Catalan) Asst. Lectr.  
Lomax, D. W., MA *Oxon.* (Spanish) Asst. Lectr.

**Histology**

Hancox, N. M., MD Reader  
Kruszynski, J., MD *Vilna* Lectr.  
Beckett, Evelyn B., BSc PhD *Lond.* Lectr.  
Owen, J. J. T., BSc MB ChB Lectr.  
Boothroyd, B., BSc PhD *Leeds*  
Electron Microscopist

**History, Ancient, and Archæology,  
Classical**

Walbank, F. W., MA *Camb.*, FBA  
Rathbone Prof.  
Eames, J. V. H., MA *Oxon.* C. W. Jones Lectr.  
Marsden, E. W., MA PhD *Camb.* Lectr.

**History, Ecclesiastical**

Hennell, Rev. M. M., MA *Oxon.* Hon. Lectr.

**History, Mediæval**

Brooke, C. N. L., MA *Camb.*, FRHistS Prof.  
Myers, A. R., MA PhD *Manc.*, FRHistS,  
FSA Reader  
Oschinsky, Dorothea, PhD *Lond.*, DrPhil *Bres.*  
(Palæog.) Lectr.  
Matthew, D. J. A., MA DPhil *Oxon.* Lectr.  
France, R. S., MA †Sp. Lectr.  
Vaines, J. C., LLM †Sp. Lectr.  
Liebeschütz, H., MA *Lond.*, PhD *Heidel.* †Asst.  
Mayr-Harting, H. M. R. E., BA *Oxon.*  
Asst. Lectr.

**History, Modern**

Quinn, D. B., BA DLit *Belf.*, PhD *Lond.*  
A. Geddes & J. Rankin Prof.  
Bell, P. M. H., BA BLitt *Oxon.* Lectr.  
Collins, Mrs. Irene, MA BLitt *Oxon.*,  
FRHistS Lectr.  
Rowe, W. J., MA DPhil *Oxon.*, FRHistS Lectr.  
Ryan, A. N., MA, FRHistS Lectr.  
Lynch, J., MA *Edin.*, PhD *Lond.*, FRHistS  
Lectr.  
Shennan, J. H., BA Asst. Lectr.

**Italian**

Faithfull, R. G., BA *Lond.*, PhD Lectr.  
Dawson, E., BA Lectr.  
Calma, Mrs. Anna, DrLett *Turin* †Tutor

**Law**

Seaborne Davies, D. R., MA *Camb.*,  
LLB *Wales* (Common L.) Prof.  
Browne, D., MA *Oxon.*  
(Law) Queen Victoria Prof.  
Vaines, J. C., LLM Sr. Lectr.  
Geddes, W., MA LLM †Warr Memorial Lectr.  
Newton, J. D., LLB *Lond.* Lectr.  
Simmonds, K. R., MA DPhil *Oxon.* Lectr.  
Routledge, K. G., LLB †Lectr., †Tutor  
Turner, J., LLM (Conveyancing) †Sp. Lectr.  
Taylor, A. J. E., LLM †Lectr.  
Unsworth, M. A., LLB †Lectr.  
Bulmer, D. L., BA LLB *Camb.* Lectr.  
Lowe, W. A.  
(Trust Accts. & Book-keeping)  
†Sp. Lectr.  
Hamilton, R. G., MA *Oxon.* †Lectr.

**Marine Biology, etc., see p. 956****Mathematics, Applied**

Rosenhead, L., CBE, DSc *Leeds*, PhD *Leeds*  
& *Camb.*, FRS Prof.  
Fletcher, A., MA PhD *Camb.* Reader  
Plackett, R. L., MA *Camb.*  
(Mathl. Stats.) Reader  
Daymond, S. D., MA *Oxon.*, BSc *Lond.* &  
*Wales*, PhD Sr. Lectr.  
Young, A., BSc *St.And.*, PhD  
(Numerical Analysis) Sr. Lectr., Dir. of  
Computer Lab.  
Jackson, T. A. S., MA PhD *Camb.* Lectr.  
Baldock, G. R., BSc *Lond.*, PhD Lectr.  
Sewell, G. L., MA *Oxon.*, PhD *Lond.* Lectr.  
Williams, W. E., MSc PhD *Manc.* Lectr.  
Booth, F., MA *Camb.* Lectr.  
Brenner, Sheila, MA *Camb.*, PhD *Birm.* Lectr.  
Kirk, A., BEng (Numerical Analysis) Lectr.  
Tweedie, M. C. K., MSc *Rdg.*  
(Mathl. Stats.) Lectr.  
Doak, P. E., BA MS *Oklahoma* Lectr.  
Rayner, C. B., BSc PhD *Lond.* Lectr.  
Belinfante, D. C., BSc PhD *Lond.* Lectr.  
Lynn, N., BSc PhD *Belf.* Lectr.  
Watt, J. M., MA *Camb.*  
(Numerical Analysis) Lectr.  
Drake, D. G., BSc PhD *S'ton.* Lectr.  
Green, J. R., BSc PhD (Mathl. Stats.) Lectr.  
Morgan, R. N., BSc (Mathl. Stats.) Res. Asst.  
Cooklin, G. A., BSc *Lond.*  
(Numerical Analysis) Res. Asst.  
Read, E. J. C., BSc PhD  
(Numerical Analysis) Res. Asst.  
Terrill, R. M., BSc PhD Asst. Lectr.  
van der Burg, M. G. J., BSc PhD *Lond.*  
Asst. Lectr.  
Shail, R., BSc PhD *Lond.* Asst. Lectr.  
Bloore, F. J., BSc Asst. Lectr.  
Wilson, C. B., BSc PhD Asst. Lectr.  
Sharples, A., BSc *Manc.* Asst. Lectr.  
Jenkins, R. C. L., BSc *Birm.* Asst. Lectr.  
3 Assts. for marking

**Mathematics, Pure**

Walker, A. G., MA <i>Oxon.</i> , DSc <i>Edin.</i> , FRS	Prof.
Willmore, T. J., MSc PhD <i>Lond.</i>	Sr. Lectr.
Flett, T. M., MSc <i>Lond.</i> , PhD <i>Camb.</i>	Sr. Lectr.
Maitland, Barbara J., MA PhD <i>Camb.</i>	Lectr.
Newns, W. F., BSc PhD	Lectr.
Ledger, A. J., BSc PhD <i>Durh.</i>	Lectr.
Butler, M. R. C., MA BSc PhD <i>Melb.</i>	Lectr.
Horrocks, G., MA PhD <i>Camb.</i>	Lectr.
Robertson, S. A., BSc PhD <i>St. And.</i>	Lectr.
Rayner, F. J., MA DPhil <i>Oxon.</i>	Lectr.
Brown, R., BA <i>Oxon.</i>	Asst. Lectr.
Porteous, I. R., BA <i>Camb.</i> , MA <i>Edin.</i>	Res. Asst.
Schwarzenberger, R. L. E., BA <i>Camb.</i>	Res. Asst.

**Medicine, see below****Music**

Abraham, G. E. H., MA, FTCL	
James & Constance Alsop	Prof.

**Oceanography**

Bowden, K. F., DSc <i>Lond.</i> , FIP	Prof.
Riley, J. P., DSc PhD, FRIC	Lectr.
Fairbairn, L. A., BSc	Lectr.
Hughes, P., BSc	Lectr.

**Parasitology and Entomology**

Kershaw, W. E., VD, MD DSc <i>Manc.</i> , DTM&H <i>Lond.</i>	
Walter Myers & Everett Dutton	Prof.
Edeson, J. F. B., BSc <i>Lond.</i> , MD <i>Sheff.</i>	
(Med. Parasitol.)	Leverhulme Lectr.
Macdonald, W. W., BSc <i>Glas.</i>	
(Appl. Biol.)	Lectr.

**Philology, see Engl. Lang., and Celtic****Philosophy**

Lloyd, A. C., BA <i>Oxon.</i>	Prof.
Huby, Mrs. Pamela M., MA <i>Oxon.</i>	Lectr.
Sykes, R. D., BA <i>Camb.</i> , PhD <i>Prin.</i>	Asst. Lectr.

**Physics**

Cassels, J. M., MA PhD <i>Camb.</i> , FRS	
Lyon Jones	Prof.
Fröhlich, H., DrPhil <i>Munich</i> , Hon. DSc <i>Remnes</i> , FRS	(Theoret. P.) Prof.
Merrison, A. W., BSc <i>Lond.</i> , PhD	
(Exper. P.)	Prof.
Roberts, R. W., DSc	Reader
Holt, J. R., BSc PhD	Reader
Collinge, B., BSc PhD	Reader
Moore, M. J., MSc, JP	Sr. Lectr.
Green, L. L., MA PhD <i>Camb.</i>	Sr. Lectr.
Huby, R., MA <i>Camb.</i> , PhD <i>Brist.</i>	
(Theoret. P.)	Sr. Lectr.
Willmott, J. C., BSc PhD <i>Lond.</i>	Sr. Lectr.
Parbrook, H. D., BSc PhD <i>Durh.</i>	
(Acoustics)	Sr. Lectr.
Evans, W. H., BSc PhD <i>Wales</i> (on leave)	Lectr.
Martin, D. G. E., BSc	Lectr.

Parry, G., BSc <i>Lond.</i> , PhD	Lectr.
Szigeti, B., PhD <i>Zür.</i> (Theoret. P.)	Lectr.
Newns, H. C., BSc PhD	Lectr.
Wormald, J. R., MA PhD <i>Camb.</i>	Lectr.
Allcock, G. R., BSc PhD (Theoret. P.)	Lectr.
Muirhead, W. R. H. F., BSc PhD <i>Brist.</i>	Lectr.
Hird, B., MA DPhil <i>Oxon.</i>	Lectr.
Frank, S. G. F., BSc <i>Lond.</i> , PhD <i>Camb.</i>	Lectr.
Davies, M. G., BSc PhD <i>Leeds</i>	
(Acoustics)	Lectr.
Taylor, R. T., MA DPhil <i>Oxon.</i>	Lectr.
Rickayzen, G., BSc PhD <i>Lond.</i>	Lectr.
Edwards, D. N., BSc PhD	Lectr.
Tempest, W., BSc PhD (Acoustics)	Lectr.
Donald, R. A., BSc PhD <i>Edin.</i>	Lectr.
Mason, P., BSc PhD <i>Exe.</i>	Lectr.
Chalmers, T. A., BSc PhD <i>Lond.</i>	
(Med. Radiol.)	†Sp. Lectr.
Cundy, D. C., BSc <i>Lond.</i>	Demr.
Townes, B. M., BSc	Demr.
Braben, D. W., BSc	Demr.
Scott, H. D., BSc	Demr.

**Physiology**

Gregory, R. A., DSc PhD <i>Lond.</i>	
George Holt	Prof.
Calma, I., MD <i>Milan</i> (Exper. Phys.)	Sr. Lectr.
Richards, T. G., MD PhD	Lectr.
Baker-Bates, E. T., MD, FRCP	
(Appl. Physiol.)	†Lectr.
Kidd, G. L., MSc PhD	Lectr.
Roberts, D. V., BSc MB ChB	Lectr.
Goetzee, A. E., MD	Lectr.
Tracy, Hilda J., MB ChB	Lectr.

**Political Theory and Institutions**

Harrison, W., MA <i>Glas.</i> & <i>Oxon.</i>	Prof.
Verney, D. V., MA <i>Oxon.</i> , PhD	Lectr.
Wilson, N., MA DiplPA	
(Pub. Admin.)	Leverhulme Lectr.
Ridley, F. F., BSc(Econ) PhD <i>Lond.</i>	Lectr.
6 Sp. Lectrs.† (for dipl. in pub. admin.) ;	
2 Tutors† (for dipl. in pub. admin.)	

**Psychology**

Hearnshaw, L. S., MA <i>Oxon.</i>	Prof.
Crawford, Agnes, BA PhD <i>Lond.</i>	Lectr.
Bromley, D. B., BA <i>Manc.</i>	Lectr.
Leytham, G. W. H., MA <i>Calif.</i>	Lectr.
Straker, D., MA <i>Camb.</i>	Lectr.
Leveson, I., MD	†Lectr.
Heron, A., MSc <i>Manc.</i> , PhD <i>Lond.</i>	Hon. Lectr.
Chown, Mrs. Sheila M., BSc <i>Lond.</i> , PhD	Hon. Lectr.
Corina, L., BA <i>Oxon.</i>	Demr.
Richards, J. W. T., BA <i>Brist.</i>	Demr.

**Public Administration, see Pol. Theory and Instns.****Russian**

Gorodetzky, Mrs. Nadejda, BLitt MA DPhil <i>Oxon.</i>	Bowes Prof.
--	-------------

Henry, P., MA *Oxon.*  
O'Toole, L. M., BA *Oxon.*

Lectr.  
Lectr.

### Social Science

Simsey, T. S., MA *Oxon.* Charles Booth Prof.  
Scott, W. H., BA PhD (Indust. Sociol.) Reader  
Chapman, D., BSc(Econ) *Lond.*, PhD Sr. Lectr.  
Kerr, Madeline, MA *Manc.*, PhD *Lond.*

Sr. Lectr.

Silcock, H., MA DiplPA

Lectr.

Hall, M. Penelope, BA

Lectr.

Deed, Dorothy M., MA *Camb.*

(Soc. Admin.) Lectr.

Jehu, D., BA *R'dg.*

Lectr.

Vereker, C. H., MA DPhil *Oxon.*

Lectr.

Farmer, Mrs. Mary E., BA

†Tutor

Carey, A. S., MB ChB DPH *Leeds*

(Admin. of Mental Health Services)

Hon. Lectr.

Begg, T. L., MB ChB DPH

(Mental Health) Hon. Lectr.

Simpson, E. Joan, BA *Durh.*

Hon. Lectr.

Banks, J. A., MA *Lond.*

Res. Lectr.

Mays, J. B., MA

Res. Lectr.

Banks, Mrs. Olive L., BA PhD *Lond.* Res. Lectr.

Gittus, Elizabeth, MA

Res. Worker

Mumford, Mrs. Enid M., MA

Res. Worker

Rankin, N. H., BSc *Lond.*

Res. Worker

Hill, Jean L. M., BA(Econ) *Brist.*

Jr. Res. Worker

**Spanish**, see Hispanic Studies

### Veterinary Science

Wright, J. G., Hon. DSc *Brist.*, MVSc, FRCVS  
(Vet. Surg.) Prof.

White, E. G., PhD DSc *Lond.*, FRCVS

(Vet. Prev. Med.) William Prescott Prof.

Hughes, D. L., DipBact *Lond.*, FRCVS

(Vet. Pathol.) Prof.

Davies, G. O., DVSc DVH (Vet. Pathol.) Reader

Hughes, H. V., BVSc DVH

(Vet. Anat.) Reader-in-Charge

Shuttleworth, A. C., MVSc, FRCVS

(Vet. Surg.) Reader

King, J. O. L., BSc(Agric) *R'dg.*, MVSc

PhD (Animal Husb.) Sr. Lectr.

Buxton, A., PhD *Camb.*, FRCVS

(Vet. Bacteriol.) Sr. Lectr.

Jordan, F. T. W., BSc(VetSci) PhD *Lond.*

(Vet. Prev. Med.) Sr. Lectr.

Dransfield, J. W., MVSc (Vet. Anat.) Lectr.

Glover, T. D., BSc *Edin.*, MA PhD *Camb.*

(Vet. Anat.) Lectr.

Pinsent, P. J. N., BVSc

(Vet. Med., Farm Animals) Lectr.

Barnes, M. McC., BSc *Brist.*, PhD *Birm.*

(Vet. Biochem.) Lectr.

Singleton, A. G., BVSc

(Vet. Phys.) Lectr.

Sykes, A. H., BA *Camb.*, PhD *Edin.*

(Vet. Phys.) Lectr.

Allan, D. (Appl. Vet. Pathol.) Lectr.

Cornwall, R. L., MVSc (Vet. Prev. Med.) Lectr.

Neal, P. A., BSc BVSc

(Vet. Surg., Farm Animals) Lectr.

Ritchie, H. E., BVSc

(Vet. Med., Farm Animals) Lectr.

Arnall, L., BVSc

(Vet. Med., Small Animals) Lectr.

Ewbank, R., BVSc

(Animal Husb.) Lectr.

Wright, A., PhD

(Vet. Histol.) Lectr.

Thomlinson, J. R., BSc *Edin.*

(Clin. Vet. Pathol.) Lectr.

Clarkson, M. J., BSc MVSc

(Vet. Parasitol.) Lectr.

Knifton, A., BVSc BSc (Vet. Pharmacol.) Lectr.

Howell, J. M., BVSc (Vet. Pathol.) Lectr.

Batt, R. A. L., BVSc BSc

(Vet. Anat.) Temp. Asst. Lectr.

O'Malley, Mary C. B., BVSc

(Small Animal Med. & Surg.) Demr.

2 Demrs.† (Vet. Pharmacy)

### Zoology

Pumphrey, R. J., MA ScD *Camb.*, FRS

Derby Prof.

Smith, C. L., BSc PhD

Reader

Jones, J. W., DSc PhD, FLS

Sr. Lectr.

Hynes, H. B. N., DSc PhD *Lond.*

Sr. Lectr.

Fordham, Miss Mahalah G. C.,

MSc *W.Aust.*

Lectr.

Ball, J. N., BSc PhD

Lectr.

Meredith, Mrs. Sheila C., PhD *Leeds*,

MSc

†Temp. Lectr.

Brinkhurst, R. O., BSc PhD *Lond.*

Lectr.

Duncan, C. J., BSc PhD *Lond.*

Lectr.

Salzen, E. A., BSc PhD *Edin.*

Lectr.

Chubb, J. C., BSc

Asst. Lectr.

### DENTISTRY

#### Dental Anaesthetics

Halton, J., MB ChB, FFARCS

†Lectr.

#### Dental Prosthetics and Mechanics

Storer, R., MSc, FDSRCS

Lectr.

Newton, A. V., BDS

Lectr.

#### Dental Surgery, Dental Pathology,

#### Dental Bacteriology

Farmer, E. D., MA *Camb.*, MDS, FDSRCS

(D. Surg.) Louis Cohen Prof.

Hartles, R. L., DSc PhD

(D. Biochem.) Sr. Lectr.

Melville, T. H., BSc(Agric) *Leeds*, DipBact

*Manc.*

(D. Bacteriol.) Lectr.

Oliver, W. M., BDS *St.And.*, FDSRCS

(Parodontal Dis.) Lectr.

Birch, R. H., BDS *Durh.*, FDSRCS

(Prev. & Children's D.) Lectr.

Kerr, N. W., BDS

(Parodontal Dis.) Lectr.

Goose, D. H., BDS BSc *Birm.* (Prev. D.) Lectr.

2 Demrs† (D. Biochem.)

#### Dental Surgery, Clinical

Collinge, J. S. H., FDSRCS

†Lectr.

Harrison, F. E., MBE

†Lectr.

Neubert, E. W., LDS †Lectr.  
 Macphree, G. G., MA MD *Glas.*, FDSRCS †Lectr.  
 Fairhurst, R., BDS MB ChB, FDSRCS †Lectr.  
 Guyler, T. W. C., BDS †Lectr.  
 Blamire, A., MBE, LDS †Asst. Lectr.  
 Drake, A. F., BDS  
 Hon. Curator of Museum, †Asst. Lectr.  
 Burston, W. R., PhD *Camb.*, LDS †Asst. Lectr.

### Dental Surgery, Operative

Lawton, F. E., DDS *Northwestern*, BDS, FDSRCS Prof., Dir. of Dent. Educn.  
 Mumford, J. M., MS *Mich.*, MSc, FDSRCS Sr. Lectr.  
 Collinge, J. S. H., FDSRCS †Lectr.  
 Pearson, S. L., BDS, FDSRCS Lectr.  
 Ferguson, H. W., LDS *St.And.*, FDSRCS Lectr.

### Odontology

Guyler, T. W. C., BDS †Lectr.

### Orthodontics

Wynne, T. M. H., BDS Lectr.  
 Knowles, C. C., BDS Lectr.

### Radiology

Rubin, E. L., MD DMRE, FFR †Lectr.

## ENGINEERING

### Building Science

Hendry, A. W., BScEng PhD DSc *Aberd.* Prof.  
 Bitch, A. L., BScTech BA *Manc.* Lectr.  
 Benson, A. C., BSc PhD *Manc.* Lectr.  
 Whitehead, B., BA *Sheff.* Lectr.

### Civil Engineering

Owen, J. B. B., DSc, FRAeS  
 John William Hughes Prof.  
 Whittington, R. B., MSc *Manc.*, PhD Sr. Lectr.  
 Bolton, A., MScTech PhD *Manc.* Sr. Lectr.  
 Nesbitt, H. G., MEng Lectr.  
 Waters, H., MEng Lectr.  
 Reed, C. D., MEng Lectr.  
 Proudlove, J. A., MEng Lectr.  
 Barden, L., MSc *Durh.* Lectr.  
 Halliwell, A. R., BEng Lectr.  
 Ashworth, R., BEng Lectr.  
 King, G. J. W., BSc(Eng) *Lond.* Asst. Lectr.  
 Beaufait, F. W., BS *Mississippi* Asst. Lectr.

### Electrical Engineering

Meek, J. M., DEng, FIP, MIEE  
 (Electr. Power E.) David Jardine Prof.  
 Craggs, J. D., MSc PhD *Lond.*, FIP  
 (Electronic E.) Robert Rankin Prof.  
 Edels, H., BScTech *Manc.*, PhD  
 (Electr. Power E.) Reader

Leck, J. H., MEng PhD  
 (Electronic E.) Sr. Lectr.  
 Aldred, A. S., MSc *Leeds*, PhD  
 (Electr. Power E.) Sr. Lectr.  
 Durnford, J., BSc(Eng) *Lond.*  
 (Electronic E.) Lectr.  
 Jones, C. V., BSc *Lond.*, MEng PhD  
 (Electr. Power E.) Lectr.  
 Lynn, J. W., MSc PhD  
 (Electr. Power E.) Lectr.  
 Whittaker, D., BEng PhD  
 (Electr. Power E.) Lectr.  
 Parker, A. B., BSc PhD *Wales*  
 (Electronic E.) Lectr.  
 Canning, T. I., BSc *Belf.*, PhD  
 (Electr. Power E.) Lectr.  
 Prasad, A. N., BEng *Madr.*  
 (Electronic E.) Lectr.  
 Harrison, J. A., BSc PhD  
 (Electr. Power E.) Lectr.  
 Lennon, J. J., BSc *N.U.I.* (Electronic E.) Lectr.  
 Carter, G., BSc *Lond.*, PhD  
 (Electronic E.) Lectr.

### Engineering Contracts and Specifications

Gordon, C. G. S., TD, LLB, JP †Lectr.

### Mechanical Engineering

Horlock, J. H., MA PhD *Camb.* Harrison Prof.  
 Preston, J. H., MA *Camb.*, BSc PhD *Lond.*,  
 FRAeS (Fluid Mech.) Prof.  
 Cole, E. B., MSc *Brist.*, MIMechE Sr. Lectr.  
 Calvert, N. G., BEng PhD  
 (Fluid Mech.) Sr. Lectr.  
 Benson, R. S., MSc(Eng) *Lond.*, PhD Sr. Lectr.  
 Norbury, J. F., MEng PhD  
 (Fluid Mech.) Sr. Lectr.  
 Halling, J., BSc(Eng) *Lond.* Lectr.  
 Barrow, H., MEng Lectr.  
 Ryley, D. J., MSc(Eng) *Lond.*, PhD Lectr.  
 Shaw, R., BEng Lectr.  
 Gibbings, J. C., BSc(Eng) PhD *Lond.*  
 (Fluid Mech.) Lectr.  
 Mellor, P. B., BEng PhD *Sheff.* Lectr.  
 Sutcliffe, W. J., BScTech *Manc.* Lectr.  
 Ball, K., BEng Lectr.  
 Dixon, S. L., BEng Lectr.  
 McChesney, M., BSc *Glas.*, PhD Lectr.  
 Woods, W. A., BEng PhD Lectr.  
 Bishop, G. B., MEng Lectr.  
 Doyle, M. D. C., BEng Demr.  
 Lomax, A. B., BEng Demr.

### Metallurgy

Owen, W. S., MEng PhD, FIM  
 Henry Bell Wortley Prof.  
 Kennett, S. J., BSc PhD *Lond.*, FIM Sr. Lectr.  
 Bodsworth, C., MMet PhD *Sheff.* Lectr.  
 Burke, J., BEng PhD Lectr.  
 Stringer, J., BEng PhD Lectr.  
 Appleton, A. S., BEng PhD Lectr.  
 Hull, D., BSc PhD *Wales* Lectr.

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc.,  
see above)

**Anæsthesia**

Gray, T. C., MD, FFARCS Prof.  
Rees, G. J., MB ChB, FFARCS  
(Pædiatric A.) Hon. Lectr.  
Geddes, I. C., MD *St. And.*, FFARCS Sr. Lectr.  
Robinson, J. S., MB ChB, FFARCS Lectr.  
Riding, J. E., MD, FFARCS †Demr.

**Bacteriology**

Downie, A. W., MD DSc Hon. LLD *Aberd.*,  
FRS Prof.  
Robinson, D. T., MSc DiplBact *Manc.* Assoc. Prof.  
McCarthy, K., MD Sr. Lectr.  
Dumbell, K. R., MD Sr. Lectr.  
Caunt, Anne E., BSc *R'dg.*, DiplBact *Manc.* Lectr.  
Rondle, C. J. M., MA *Camb.*, PhD *Lond.*  
(Chem. Microbiol.) Lectr.  
Bedson, H. S., MB BS *Lond.*, MRCP Lectr.

**Child Health**

Hay, J. D., MA *Camb.*, MD, FRCP Prof.  
Todd, R. M., MA MD *Camb.*, MRCP Sr. Lectr.  
Brookfield, R. W., PhD MD DPH, FRCP  
†Lectr. & †First Asst.  
Roberts, J. R., MD, MRCP Lectr.  
Smithells, R. W., MB BS *Lond.*, MRCP Lectr.  
Derham, R. L. J. S., MB ChB *Brist.*, DPH  
†Second Asst.

**Clinical Pædiatric Surgery**

Forshall, Isabella, MB BS *Lond.*, FRCSEd,  
FRCS †Lectr.  
Rickham, P. P., MS DCH *Lond.*, FRCS  
†Asst. Lectr.

**Clinical Pædiatrics**

Brookfield, R. W., PhD MD DPH, FRCP  
†Lectr.  
Farquhar, H. G., BA BM BCh *Oxon.*,  
MRCP †Asst. Lectr.  
Keidan, S. E., MB ChB, MRCP †Asst. Lectr.  
Scott, Mrs. Olive, MD DPA *Sheff.*,  
DCH *Lond.*, MRCP †Asst. Lectr.  
Stark, Vida J. M., MD DPH *Glas.*  
(Clin. Prev. P.) †Hon. Lectr.  
Robertson, G. S., MD *Tor.*  
(Clin. Prev. P.) †Hon. Lectr.

**Dermatology**

Bamber, G. W., BA MD *Camb.*, FRCP  
†Lectr.-in-Charge

**Diseases, Infectious**

Christie, A. B., MA MD *Aberd.*, DPH *Lond.*  
†Lectr.

**Forensic Medicine and Toxicology**

St. Hill, C. A., MB ChB *Brist.* †Lectr.-in-Charge

**Laryngology**

Tumarkin, I. A., MB ChB, FRCSEd  
†Lectr.-in-Charge  
Grant, J. H., MB BS *Durh.*  
(Oto-rhino-laryngol.) Lectr.

**Medicine**

Cohen of Birkenhead, Rt. Hon. Lord,  
Hon. DSc *N.U.I. & Nott.*, Hon. LLD  
*Wales & Liv.*, MD, FRCP, FRCPI,  
FACP, FDSRCS, FRIC, FFR,  
FBPsS, FSA, JP Prof.  
Clarke, C. A., MA MD *Camb.*, FRCP Reader  
Chamberlain, E. N., MSc MD, FRCP  
†Sr. Lectr. & (Clin. Med.) †Lectr.  
Jones, E. S., MB ChB PhD DTM&H,  
MRCP Sr. Lectr.  
Houston, J., MB ChB DPH *Glas.*  
(Clin. TB) †Lectr.  
Baker-Bates, E. T., MD, FRCP  
†Lectr. & (Clin. Med.) †Lectr.  
Jones, E. W., MD DPH, FRCP  
†Lectr. in Med. to Dental Students &  
(Clin. Med.) †Lectr.  
Sanderson, G., MD, MRCP  
†Lectr. & (Clin. Med.) †Asst. Lectr.  
†Lectrs. (Clin. Med.)  
Ellis, G. R., MA MD *Camb.*, FRCP  
Brookfield, R. W., PhD MD DPH, FRCP  
Evans, R. M., MA MB BChir *Camb.*, MB ChB,  
MRCP  
Jones, A. T., MD DPH, FRCP  
†Asst. Lectrs. (Clin. Med.)  
Hughes, R. R., MD, MRCP  
Cook, W. H. R., MD, MRCP  
Robertson, A. J., MD, MRCP  
McConnell, R. B., MD, MRCP  
Also †Res. Asst. in Med.  
Ogilvie, C. M., MD, MRCP  
Sutton, W. S., MB ChB, FRCP  
Also †Lectr. to Dental Students

**Obstetrics and Gynæcology**

Jeffcoate, T. N. A., MD, FRCSEd, FRCOG  
†Prof.  
Francis, H. H., BSc MB ChB *N.Z.*, FRCSEd,  
FRCS, FRCOG Sr. Lectr.  
Scott, J. S., MD *Glas.*, FRCSEd Sr. Lectr.  
Francis, Mrs. Winifred J. A., MD Lectr.  
Wilson, J. K., MD †Lectr.  
†Lectrs. (Clin. Obstet. & Gynæcol.)  
Hamilton, C. J. K., MA MB BChir *Camb.*,  
FRCSEd, FRCOG  
Malpas, P., ChM, FRCS, FRCOG  
Datnow, M. M., MD, FRCSEd, FRCOG  
Herd, S. B., MD, FRCOG  
Walsh, C. H., MB ChB DPH, FRCOG  
†Asst. Lectrs. (Clin. Obstet. & Gynæcol.)  
Mayeur, Mary H., MD *Lond.*, FRCS, FRCOG  
Barr, S. J., MB BCh BAO *Belf.*, FRCSEd  
(Obstet.)  
Pryor-Jones, D., MB ChB (Obstet.)  
de Boer, C. H., MA MB BChir *Camb.*, FRCS

**Tutors (Obstet.)**

Tindall, V. R., MB ChB  
 Johnston, W. I. H., MB BS *Melb.*  
 †Demr.  
 Woodcock, A. S., MD *Leeds*

**Ophthalmology**

McCann, J. A., FRFPGlas †Lectr.-in-Charge

**Pathology**

Sheehan, H. L., TD, MD DSc *Manc.*, FRCP,  
 FRCOG George Holt Prof.  
 Cruickshank, A. H., MD *Aberd.*, PhD Sr. Lectr.  
 Davis, J. C., MD (Endocrine P.) Sr. Lectr.  
 Watt, J., MD *Aberd.* Lectr.  
 Jones, C. H., MD Lectr.  
 Carroll, R., MB BCh *N.U.I.*, DCP *Lond.*,  
 MRCPI Lectr.  
 Cheetham, H. D., BSc MD  
 (Endocrine P.) Lectr.  
 Wade, A. P., PhD *Lond.*, BSc  
 (Endocrine Biochem.) Lectr.  
 Kilburn, P., MB ChB MChOrth, FRCSEd  
 (P. of Orthop. Conditions) †Lectr.  
 Summers, V. K., MD, MRCP  
 (Endocrine P.) †Res. Asst.  
 Handford, B. O., MSc  
 (Endocrine Biochem.) Asst. Lectr.

**Pharmacology**

Wilson, A., MD PhD, FRFPGlas Prof.  
 Brookfield, R. W., PhD MD DPH, FRCP  
 (Therap.) †Lectr.  
 Roberts, J. B., MB ChB Lectr.  
 Wilson, H., MD PhD Lectr.  
 Wilson, C. W. M., BSc MD PhD *Edin.* Lectr.  
 Fairhurst, R., BDS MB ChB, FDSRCS  
 (Therap. to Dental Students) †Lectr.  
 Nowell, P. T., BSc PhD  
 (Chem. Pharmacol.) Lectr.  
 Somers, G. F., BSc PhD *Lond.*  
 (Exper. Pharmacol.) †Lectr.  
 † Demrs.† in Pharm., † Demr.† in Pharmacol.

**Plastic and Maxillo-Facial Surgery**

Hallam, J. W., FDSRCS  
 †Clin. Lectr. to Dental Students  
 Osborne, R. P., BSc MB ChB *Manc.*, FRCS  
 (Plastic Surg.) †Hon. Lectr.

**Psychological Medicine, Studies in**

Hall, S. B., MD DPM †Dir.  
 Jarvie, H. F., MD BSc DPH *Glas.*,  
 BSc *Oxon.*, DPM *Manc.* †Lectr.  
 Ieveson, I., MD (Psychiatry) †Lectr.  
 Pinkerton, P., MD *Edin.*, DPM *Lond.*  
 (Child Psychiatry) †Lectr.  
 Hetherington, R. R., BSc PhD *Lond.*  
 (Clin. Psychol.) †Lectr.  
 Petrovskaia, Barbara, BSc PhD MB  
 ChB *Edin.* Res. Asst.  
 Simpson, E. Joan, BA *Durh.*  
 (Psychiatric Social Studies) Lectr.

**Public Health**

Semple, A. B., VD, MD DPH *Glas.* Prof.  
 Schwarz, K., MB BCh DPH *Rand*, MRCP Lectr.  
 Davies, J. B. M., MD *Lond.*, DPH *Brist.* †Lectr.  
 Stark, Vida J. M., MD DPH *Glas.* †Lectr.

**Radiodiagnosis**

Whitaker, P. H., MD DMRE, FFR †Lectr.  
 †Hon. Asst. Lectrs.

Ross, J. A., MA *Camb.*, DMRE, MRCP  
 Rubin, E. L., MD DMRE, FFR  
 Scarrow, G. D., MD MRad DMRD  
 Walker, Norah M., MB ChB *Manc.*, DMRE  
 † Hon. Res. Asst.†, † Res. Asst.†

**Radiotherapy**

Fulton, J. S., CBE, TD, MD *Edin.*, FRCPEd,  
 FFR †Lectr.  
 Fraser, D. M., CIE, MB ChB *Glas.*,  
 DMRE *Camb.*, MRCP †Hon. Asst. Lectr.  
 Stewart, M. A., MB ChB *N.Z.*, DMR *Lond.*,  
 MRCPEd †Hon. Asst. Lectr.  
 Milln, Marjorie S., MD *St.And.*  
 †Hon. Asst. Lectr.

**Surgery**

Wells, C. A., MB ChB, FRCS Prof.  
 McFarland, B. L., MD MChOrth, FRCS,  
 FRCSEd  
 (Orthop. S.) Prof., Dir., Orthop. Studies  
 MacPhee, I. W., MD *Glas.*, MSc, FRCS,  
 FRCSEd Sr. Lectr. & First Asst.  
 Brearley, R., ChM, FRCS Lectr.  
 Tinckler, L. F., ChM, FRCS Lectr.  
 Kerr, A. S., MB ChB, FRCS †Lectr.  
 Oldham, J. B., VD, MB ChB, FRCS  
 †Lectr. & †Clin. Lectr.  
 Ross, J. C., ChM, FRCS  
 †Lectr. & †Clin. Lectr.  
 Lehané, D., MB BCh BAO *N.U.I.*  
 (Hæmatol.) Hon. Lectr.  
 Edwards, F. R., MD ChM, FRCS  
 (Thoracic S.) †Lectr.-in-Charge  
 Hughes, J. H., MD ChM, FRCS  
 †Lectr. & †Clin. Lectr.  
 Doyle, R. W., MB ChB, FRCS  
 (Clin. S.) †Asst. Lectr.  
 Dwyer, F. C., MB ChB *Cape T.*, MChOrth,  
 FRCS (Clin. Orthop. S.) †Lectr.  
 Hunter, W. R., ChM, FRCS  
 (Clin. S.) †Asst. Lectr.  
 Roaf, R., MA BM BCh *Oxon.*, MChOrth,  
 FRCS, FRCSEd (Orthop. S.) †Lectr.  
 O'Malley, A. G., MB ChB MChOrth, FRCSEd  
 (Orthop. S.) †Lectr. & †Asst. Clin. Lectr.  
 Wardle, E. N., MB ChB MChOrth, FRCS  
 (Orthop. S.) †Hon. Lectr. & †Clin. Lectr.  
 Roberts, N. W., MB BS *Lond.*, MChOrth,  
 FRCS  
 (Orthop. S.) †Hon. Lectr. & †Clin. Lectr.  
 Ilawe, P. R., TD, ChM, FRCS (Clin. S.) †Lectr.  
 Unsworth, S. V., MB ChB, FRCS, FRCSEd  
 (Clin. S.) †Lectr.



Beattie, W. M., MA MChir *Camb.*, FRCS  
(Clin. S.) †Asst. Lectr.  
Thomas, G. E., MB BS *Lond.*, MB ChB  
MChOrth, FRCSEd  
(Orthop. S.) †Hon. Lectr. & †Clin. Lectr.  
Osborne, G. V., MB ChB MChOrth, FRCSEd  
(Orthop. S.) †Lectr. & †Asst. Clin. Lectr.  
Bennett-Jones, M. J., ChM, FRCS  
(Clin. S.) †Asst. Lectr.  
Brewer, A. C., MB ChB, FRCS  
(Clin. S.) †Lectr. & †Lectr. in S. to  
Dental Students  
Evans, F. I., MBE, MC, MA MB BChir  
*Camb.*, FRCS (Clin. S.) †Asst. Lectr.  
Moroney, P. B., VD, MB ChB MChOrth,  
FRCS (Clin. Orthop. S.) †Asst. Lectr.  
Annis, D., MD ChM, FRCS  
(Clin. S.) †Asst. Lectr. & †Lectr. to  
Dental Students  
Helsby, C. R., ChM, FRCS  
†Res. Asst. & †Asst. Clin. Lectr.  
Wainwright, D., MB ChB MChOrth,  
FRCSEd (Clin. Orthop. S.) †Sp. Lectr.  
Garden, R. S., MB ChB *Aberd.*, MChOrth,  
FRCSEd (Clin. Orthop. S.) †Sp. Lectr.  
†Hon. Asst. Lectrs. (Thoracic S.)  
Temple, L. J., MB BS *Lond.*, FRCS  
Bickford, B. J., MB BS *Lond.*, FRCS  
Waddington, J. K. B., MB ChB, FRCSEd

### Tropical Hygiene

Davey, T. H., OBE, MD *Belf.*, DTM  
Middlemass Hunt Prof.  
Wilson, T., CBE, MD DPH *Belf.*, DTM  
DTH Sr. Lectr.

### Tropical Medicine

Macgraith, B. G., MB BS *Adel.*, BSc DPhil  
MA *Oxon.*, FRCP, FRCPEd  
Alfred Jones & Warrington Yorke Prof.  
Adams, A. R. D., MD DTM, FRCP †Sr. Lectr.  
Leithhead, C. S., MB ChB *St. And.*,  
DTM&H Lectr.  
Seaton, D. R., MA MB BChir *Camb.*,  
MRCP †Asst. Clin. Lectr.

### Venereology

Prebble, E. E., MD †Lectr.-in-Charge

## †CLINICAL TEACHERS IN SPECIAL DEPARTMENTS

### Anæsthesia

Dovey, Ruth, MB ChB  
Gibbons, Mrs. Hilda M. Garry, MB ChB,  
FFARCS  
Hargadon, J. J., MB ChB, FFARCS  
Hargreaves, J. B., FFARCS  
Hopper, G. R., FFARCS  
Hughes, G., MD, FFARCS  
McLoughlin, G., MD DPH, FFARCS  
Murray, T. P., FFARCS  
Lewis, I., FFARCS

Oldham, Kathleen L., FFARCS  
Stead, A. L., MD *St. And.*, FFARCS  
Thomas, J. P., MB ChB, FFARCS

### Child Health

Hudson, F. P., FRCPEd  
McCandless, Anne E., MD, MRCP

### Dermatology

Freshwater, D. G., BA MB BChir *Camb.*, MRCP  
Hay, Netta, MD

### Medicine

McKendrick, C. S., MA MD *Camb.*, MRCP

### Ophthalmology

Barton, Dorothy, MB ChB  
Brodrick, J. M.  
Hamilton, W. D., MB BCh BAO *Belf.*  
Cook, E. H. L., MB ChB, FRCS  
Moorhouse, J. H., MB ChB

### Oto-rhino-laryngology

Abercromby, Barbara M. L., MB BS *Lond.*  
McFarland, J. C., MD DPH, FRCSEd  
Martin, R. J., MB ChB

### Pathology

Black, T., MB ChB *Edin.*, MRCPed  
Elwood, J. S., MD *Belf.*, DCP *Lond.*  
Evans, R. W., TD, BSc *Lond.*  
Hall, E. G., BSc MB ChB *Manc.*  
Rewell, R. E., MD *Lond.*, MRCP  
St. Hill, C. A., MB ChB *Brist.*  
Smith, J. L. S., MD *Camb.*  
Stanley, D. A., BSc MD *Lond.*, FRIC  
Taylor, W. H., MA DM *Oxon.*, MRCP  
Whitwell, F., MD *Lond.*

### Psychiatry

Egan, G. P., MD *N.U.I.*, DPM *Lond.*  
Finkleman, B., MSc MD *Manc.*  
Gray, W. J., MB ChB *Glas.*  
Harrison, G. J.  
Howie, J. E., MD DPM *Manc.*  
MacKenzie, N. F., MB ChB DiplPsych *Edin.*  
Neville, J. G., MB BS *Lond.*

### Venereology

Alergant, C. D., MD  
Egerton, A. S. W.  
Fluker, J. L., MA *Camb.*, MD *Lond.*  
Lanceley, F., MD  
Rees, Elizabeth, MD

## MARINE BIOLOGICAL STATION,

Port Erin, Isle of Man

Colman, J. S., MA *Oxon.*  
Jones, N. S., MSc PhD  
Williamson, D. I., BSc PhD *Durh.*

Dir.  
Sr. Lectr.  
Lectr.

Bowers, A. B., BSc	Lectr.	Burr, J., MA	Dep. Dir.
Slinn, D. J., BSc <i>Belf.</i>	Lectr.	Bland, D. S., MA <i>Camb.</i>	Asst. Dir.
Kain, Joanna M., BSc PhD <i>Lond.</i>	Lectr.	Bagley, J. J., MA, FRHistS	
Russell, G., BSc PhD <i>St.And.</i>	Asst. Lectr.		(Hist.) Sr. Staff Tutor

### INSTITUTE OF EDUCATION

Tempest, N. R., EdM <i>Harv.</i> , MA		Staff Tutors	
William Roscoe Prof. of Educn., Dir.		Husain, B. M. C., MA BCom	(Geog.)
Carsley, J. D., MA <i>Camb.</i>	Lectr.	Wright, R. R., MA <i>Durh. &amp; Camb.</i> , PhD	
Vidor, Martha M., PhD <i>Leip.</i>			(Engr. Lit.)
(Educnl. Psychol.) Lectr.		Jones, A., BA	(Librarian)
Bradburn, Elizabeth, MEd <i>Manc.</i>	Lectr.	Barford, P. T., BMus MA <i>Leeds</i>	(Music)
Pritchard, D. G., BA <i>Wales</i>	Lectr.	Lockett, W. E. A.	(Hist. & Apprec. of Art)
Peters, A. J., MA <i>Camb.</i>	Lectr.	May, Edith F., BA <i>Manc.</i> , PhD <i>Birm.</i>	(Psychol.)
Finlayson, D. S., BEd MA <i>Edin.</i>			
(Educnl. Psychol.) Lectr.		Resident Staff Tutors	
Aigles, O. M. V., MA <i>Camb.</i>	Tutor Librarian	Cronin, P. J., BA <i>Brist.</i> , BLitt <i>Oxon.</i>	
Ellison, H. C.	†Asst.		(Lancaster Area)

### EXTRA-MURAL STUDIES

Kelly, T., MA <i>Manc.</i> , PhD, FRHistS	Dir.	Hill, N. V. L., MA PhD <i>Birm.</i>	(West Cheshire)
		Lowe, J., BA PhD	(S.W. Lancs.)
		Pashley, B. W., BA <i>Leeds</i>	Res. Worker

## ADMINISTRATIVE AND OTHER STAFF

Academic Sec. : H. H. Burchnall, MA *Oxon.*  
 Asst. Registrars : P. L. Kemp, BA *Birm.* ;  
 W. R. G. Lewis, BA *Wales*. Admin. Asst. : K.  
 Horner, BSc PhD *Durh.* Chief Clerk of Academic  
 Dept. : S. Maddock, MA DiplPA. Chief Clerk  
 of Admin. Dept. : E. McKie. Sec. to Vice-  
 Chancellor : Beatrice F. Kay. Sec. to Registrar :  
 Mrs. Marion Campbell. Estate and Planning  
 Officer : J. F. Cory Dixon, TD. Asst. Planning  
 Officer : P. R. Smith. Asst. Estate Officer :  
 G. H. Marshall, BSc (EstMan) *Lond.* Engin. and  
 Maintenance Officer : E. W. Ratcliffe, MEng,  
 MICE. Supt. of Univ. Bldgs. : A. T. Westrope.  
 Dep. Finance Officer : W. Glynn Williams, FCA.  
 Sec. to Appointments Bd. : S. R. Whipple, DFC,  
 BA *Oxon.* Asst. Sec. : N. W. Mowat, BSc *Glas.*  
 Sec., Inst. of Educn. : F. M. Algate, BSc (Econ)  
*Lond.* Lectrs. in Phys. Educn. : R. E. Dunn,  
 BSc *Lond.* ; Annie Peock. Dep. Librarian : T. S.  
 Broadhurst, MA *Oxon.* Wardens of Halls of Resi-  
 dence : Prof. D. R. Seaborne Davies, MA *Camb.*,  
 LLB *Wales* (Derby Hall) ; D. A. Coult, MSc  
*Lond.* (Rathbone Hall) ; Emma A. H. Clifford,  
 MA R'dg., PhD *Brist.* (University Hall) ; Eliza-  
 beth M. Icese, BA *Brist.* (Dale Hall) ; Joyce  
 Bazire, MA *Leeds* (Rankin Hall). Chief Med.  
 Officer : G. Sanderson, MD, MRCP. Med.  
 Officer : Margaret E. Thomas, MB ChB. Stu-  
 dent Welfare Officer : Mrs. Vera Grant.

## ASSOCIATED INSTITUTIONS

LIVERPOOL OBSERVATORY AND TIDAL INSTITUTE,  
 The Observatory, Bidston, Birkenhead, Cheshire.  
 (tel. : Claughton 5455). Observatory establd.  
 1845, tidal inst., 1919. Administered by jt. cttee.  
 representing univ. council and Mersey docks and  
 harbour bd.

SCHOOL OF TROPICAL MEDICINE, Pembroke  
 Place, Liverpool, 3 (telegrams and cables :

Malaria, Liverpool ; tel. : Royal 7611). Wards  
 for trop. dis. at Liverpool Royal Infirmary and  
 Sefton General Hosp. For trg. in res. and organ-  
 ization of prophylactic measures. Has sent  
 numerous expeditions to trop. countries. Pub-  
 lishes *Annals*. For staff, see above—Trop. Med.,  
 Trop. Hygiene, Parasitol. & Entomol. DTM&H,  
 3 mos. course.

## GENERAL INFORMATION

Univ. Coll., Liverpool, founded by royal  
 charter 1881, was admitted into the Victoria Univ.,  
 Manchester, in 1884. In 1903 the Univ. of Liver-  
 pool was established by royal charter and the coll.  
 was absorbed in it. Expansion was rapid, both  
 in bldgs. and in numbers of students. To the  
 older degrees in arts, sci., med. and law, degrees

in archit., dent. surg. and engin. were soon added.  
 A sch. of vet. med. was establd. in 1904, affiliated  
 to the Royal Coll. of Vet. Surgeons, and in 1914  
 degrees in vet. sci. were establd. Devel. was  
 halted by the outbreak of the first world war,  
 towards the prosecution of which the univ. made  
 notable contributions in the fields of sci. and med.

Between 1918 and 1939 the numbers of students and staff increased steadily, and despite financial stringency, devel. included the bldg. of a geol. lab., an animal hosp., the extension to the students' union, a new lib. and a hall of residence for men students. From 1945 to the present day the univ. has been engaged in an unprecedented expansion, and in addn. to other bldgs., new chem. labs., a new med. sch., phys. bldg., civil engin. and bldg. sci. labs. and 2 halls of residence (one for men and the other for women) have been erected.

**CONSTITUTION.** The supreme governing body of the univ. is the court which, subject to the charter, statutes and legislation, has absolute power within the univ. It consists of the members of the council and senate, reps. of local authorities, professional bodies, schools, colls. and convocation, and of certain officials *ex officio*. It meets annually to consider the report of the council and of the univ., and to approve the accounts and alterations to ordinances.

The council is the executive body of the univ. and consists of the officers of the univ. and reps. of the court, city council, senate, facs. and convocation; it administers the whole revenue and property and conducts all affairs of the univ., and, on nomination of the facs. and senate, appts. profs., officials and members of the teaching staff.

The senate is responsible to the council for the general regulation of discipline, instructn., res. and exams. within the univ. and for recommendations for degrees, dipls., certs., scholps. and prizes.

Each of the facs. of the univ. is responsible to the senate for courses of study and regns. as to awards, and, in general, the various business transactions falling within each fac.'s province.

**INCOME** (yr. ended July 31, 1959). Total income, £1,941,101 (Treasury grants, 69.8 per cent.; other govt. depts., 4.5 per cent.; local authorities, 2.6 per cent.; endowments, 8.5 per cent.; fees, 11.6 per cent.; other sources, 3 per cent.).

**FACULTIES AND DEANS** (session 1960-61). *Arts*, Prof. K. Muir (Engl. lit.); *engin.*, Prof. J. M. Meek (electr. power engin.); *law*, Prof. D. R. Seaborne Davies; *med.*, J. M. Leggate; *sci.*, Prof. K. F. Bowden (oceanog.) (full-time sub-dean: Dr. V. J. Occleshaw); *vet. sci.*, Prof. J. G. Wright (vet. surg.).

**UNIVERSITY PRECINCT.** The older bldgs. of the univ. are situated in and around Brownlow Hill within a mile of the city centre. A long-term bldg. programme has been initiated and in this univ. has been greatly helped by the corporation of Liverpool, which has reserved for its use an area of 84.8 acres around the present site in Brownlow Hill. Bldgs. already completed include those for nuclear phys., civic design, inorg. & phys. chem., med. sch., the univ. press, dental sch. extn., civil engin. and bldg. sci., and phys. Bldgs. in course of constrcn. include those for vet. anat. & pathol., maths. & oceanog., and org. chem

**LIBRARY.** About 450,000 vols. Most important collections received by gift or bequest: Thomas Glazebrook Rylands (1900), rich in early geog., astron., matha. and British local hist.; William Noble (1912), containing most of the finely printed books published in England since about 1880; R. A. Scott Macfie (1935), entirely devoted to the gypsies. The library possesses a small but fairly representative collection of mediæv. MSS, including an important text of *Piers Plowman*, and about 250 incunabula. In addition to the Harold Cohen library, opened in 1938, there are numerous deptl. libraries, all administered by the univ. librarian.

**LABORATORIES, ETC.** Equipment for advanced study and res. in all depts. There is a marine biol. stn. at Port Erin, Isle of Man; univ. bot. gdns. at Ness, Wirral; and a vet. field stn at Neston, Wirral. The Liv. observatory & tidal inst. at Bidston, Wirral, is maintained by the univ.

**HOSPITALS** affiliated for purpose of clin. or practical work required for degrees and dipls. in fac. of med.: Liv. Royal Inf., David Lewis Northern H., R. Southern H., Liv. Stanley H., R. Liv. Children's H., Women's H., Liv. Maternity H., Liv. Ear, Nose and Throat Inf., St. Paul's Eye H., Liv. Dent. H., Aintree H., Alder Hey Children's H., Broadgreen H., Newsham Gen. H., Birkenhead Gen. H., Clatterbridge H., Chester (Deva) H., Denbigh (Mental) H., Robert Jones & Agnes Hunt Orthopæd. (Oswestry) H., Liv. Psychiatric Clinic, Fazakerley H., Mill Rd. Maternity H., Sefton Gen. H., Walton H., Winwick (Mental) H., Rainhill H., Whiston County H., Seamen's Disp., Radium Inst., Liv. Chest H.

**INSTITUTE OF EDUCATION** (see also 'Teaching Staff', *above*). Promotes the educn. and trg. of teachers, co-ordinates local trg. facilities, conducts professional exams., and arranges further study courses for practising teachers (incl. courses for dipl. in educn. and cert. in the teaching of handicapped children). *Constituent members*: univ. dept. of educn.; Alsager Trg. Coll., Cheshire; F. L. Calder Trg. Coll. of Dom. Sci.; Cheshire County Trg. Coll., Crewe; Chester Coll.; Edge Hill Trg. Coll.; Liverpool Coll. of Art; J. M. Marsh Coll. of Phys. Educn.; C. F. Mott Trg. Coll.; Mount Pleasant Trg. Coll.; S. Katharine's Trg. Coll.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** All degrees may be conferred with honrs. BA is conferred in general studies, in spec. studies, or in combined spec. studies. BA (gen. studies), 3 yrs.; BA (spec. studies), 3 or 4 yrs., in classics, oriental studies, French, Italian, Hispanic studies, German, Celtic studies, Russian, Engl. lang. and lit., hist., geog., econ., soc. sci., philos., psychol.; BA (combined spec. studies), 4 yrs., in Gk. & Egyptian, Gk. & Hebrew, Gk. & philos., French & German, French & Hispanic studies, French & Italian, Engl. lang. and lit. & philos., econ. & geog., econ. & maths., econ. &

philos., geog. & maths., maths. & philos., Engl. lang. & philos. For BA (gen.), hons. awarded on result of final exam. For BA (spec. studies) and BA (combined spec. studies), hons. obtd. on result of pt. I & pt. II exam.; candidates not reaching this level may be awarded pass degree.

BCom, 3 yrs. (alternative curricula: (a) for ordinary student in comm., (b) for those who wish to enter the accty. profession). BArch, 5 yrs., hons. obtd. on result of 4th and final exams. BSc, 3 yrs., 4th yr. for hons. in gen. sci. or in 1 of the following: maths., mathl. phys., mathl. stats., phys., chem., zool., bot., geol., oceanog., geog., physiol., biochem., bacteriol., anat., metall. Unsuccessful candidates for hons. may be awarded ordinary degree. MB ChB, 6 yrs., hons. obtd. on result of final exam. BDS, 5 yrs. 1 term, hons. obtd. on result of final exam. BVSc, 5 yrs., hons. obtd. on result of the second, third and final exams. LLB, 3 yrs.; hons. students offer 2 addtnl. sp. subjects in 2nd and 3rd yrs.; candidates not reaching hons. level at final exam. may be awarded pass degree. BEng (mech., marine, electr. power, electronic, civil, metallurgy), 4 yrs.; hons. students offer addtnl. subjs. in final yr.; candidates not reaching hons. level at final exam. may be awarded pass degree.

**HIGHER DEGREES.** PhD—grads. of this or other approved univ., not less than 2 yrs.' full-time res., thesis and oral exam.; non-grads. (under certain conditions), 3 yrs. LittD—on publ. contributions to learning, after report, upon MAs of the univ. after 7 yrs. from date of admission to degree of BA. MA—grads. of this or other approved univ., approved course of higher study or res. for at least 2 yrs.; non-grads. (under certain conditions), 3 yrs.; thesis and exam. MCD—study for at least 1 further session after BArch, otherwise a 2-yr. course; studio work and, if required, exam. MArch—1 yr.'s higher study or res. and presentation of thesis with oral exam.; course to commence not earlier than 3 yrs. after graduation as BArch. Suitably qualified non-grads. may proceed to the degree after 2 yrs.' study or res. MCom—2 yrs.' higher study or res. after BCom or BComSc of the univ.; thesis with or without exam. Other grads. eligible under certain conditions. MEd—grads. of this or other approved univ. or holders of dipl. in educn. (in or subsequent to 1957), approved course of study for at least 2 yrs.; non-grads. (under certain conditions), 3 yrs. LLD—on publ. contributions to learning, after report, upon grads. in laws of this univ. of not less than 7 yrs.' standing. LLM—at least 2 yrs.' systematic work after LLB hons.—not lower than class 2, div. 1, or equivalent, and presentation of thesis. DSc—on publ. contributions to sci., after report; candidates to be grads. of the univ. of not less than 6 yrs.' standing. MSc—thesis and, if required, exam. Hons. BSc of the univ., 3 complete terms' higher study or res. Other grads. of this or approved univ., a prescribed preparatory course and passing an exam.; subsequently, 3

terms' higher study or res. Other persons may, in spec. circumstances, be accepted under certain conditions. MD—(a) 2 yrs. after MB ChB, thesis with, if candidate desires, copies of publ. original papers upon med. sci.; oral exam. on subject of thesis. (b) 5 yrs. after MB ChB, exam. in med. and in a selected branch of med. ChM—thesis and exam., open to grads. in med. of this or other approved univ. and to grads., other than med., of this or approved univ., who hold a med. qualif. registrable in Gt. Britain. MChOrth—thesis and exam., after course of not less than 12 mos., open to grads. in med. of this or other approved univ. and to grads., other than med., of this or approved univ. who are FRCS (Eng., Ed., I., Aust. or Can.) or Fellows of the American Coll. of Surgeons or Fellows *qua* surgeons of the Royal Fac. of Physicians & Surgeons, Glasgow. MRad (in either radio-diag. or radio-therapy)—open to holders of the dipl. in radiol. of the univ. of 2 yrs.' standing; thesis required. MDS—2 yrs.' standing from taking BDS, 3 yrs.' standing (with 1 yr.'s higher study or res.) from equivalent to BDS. All candidates follow 6 mos.' course, present thesis with, if desired, copies of publ. work relative to dent. sci. and take spec. exam. DVSc—on grads. in vet. sci. of the univ. of 8 yrs.' standing after report on publ. contributions. MVSc—2 sessions of higher study after BVSc (or equivalent), by thesis or report and possibly by exam. DEng—on MEngs or PhDs (fac. of engin.) of 5 yrs.' standing, after report on publ. contributions. MEng—thesis and, if required, exam. for grads. with BEng hons. or BEng of the univ., after higher study or res. for 1 yr. (BEng hons.), 2 yrs. (BEng), or evidence of pursuit of the sci. or practice of engin. for 2 yrs. (BEng hons.), 3 yrs. (BEng) since graduation. Other grads., 2 yrs.' higher study or res. with exam. and thesis. Other approved candidates, 3 yrs.' res. with exam. and thesis.

**HONORARY DEGREES.** MCom, MCD, MArch, MA, LL.M., MSc, ChM, MChOrth, MRad, MDS, MEng, MVSc, MEd, LLD, LittD, DSc, MD, DEng, DVSc.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Archæol., open to grads. of this or other approved univ., 1 or 2 yrs., thesis and exam.; civic design, 1 or 2 yrs.' prescribed study, thesis and exam.; only suitably qualified candidates admitted; educn., open to candidates with approved initial qualif. in educn. and appropriate professional experience, 1 yr. full-time or 5 terms pt.-time and 1 term full-time, thesis and exam.; international law, open to grads. or otherwise suitably qualified candidates, 1 yr., thesis and exam.; pub. admin. (evg. courses), 3 yrs., 2 yrs. or 1 yr., according to qualifs. of candidates; soc. admin., not less than 12 mos., candidates may specialize in child care or in mental health; study of records and admin. of archives, 1 yr. for full-time students, 2 yrs. for others; indust. sociol., suitably qualified candidates, 2 yrs. or 1 yr., as determined by fac.; appl. psychol., 2 yrs. or 1 yr.,

according to qualifs. of candidates; engin., 2 yrs.' practice of engin. after final exam. for cert. (incl. 1 yr.'s approved study or dissertation)—candidates who passed in 8 papers in final cert. exam., 2 yrs.' practice; bldg. sci., open to grads. or holders of approved professional qualif., not less than 3 terms; vet. hygiene (DVH), regns. under revision. Postgrad. med. dipls.: DPH, 1 yr.; DMR(D) or (T), 2 yrs.; DTM&H, 3 mos.

**CERTIFICATES.** Archæol., 1 yr.; separate arts subjects, not less than 2 yrs.; soc. sci., 1 or 2 yrs.; educn., 1 yr. (postgrad.); engin., 4 yrs. (3 yrs. for approved candidates); teaching of handicapped children, open to qualified teachers with at least 3 yrs.' experience of teaching of which not less than 2 yrs. must have been spent in schs. other than sp. schs., 1 yr.

**POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION.** Anaesthesia, 1 yr.; psychol. med., 6 terms pt.-time (designed for those studying for a dipl. in psychol. med.).

**RESEARCH FACILITIES** are available in most depts.

**STUDY LEAVE.** Applicants are considered on their individual merits.

**FEES.** I. *Tuition per session.* BA, £45 (4th yr. special studies, £15); MA, 12 gns.; BArch, £60 (4th yr., £40); MCD, £45; BCom, £45; MCom, 12 gns.; MArch, 15 gns.; MED, 12 gns.; BSc, £55 (hons. in mathl. phys. & matha., £40); MSc, £15 (mathl. phys. & matha., £12); MB ChB, £60 (6th yr., £38); ChM for the course, £60; MChOrth for the course, £100; BDS 1st, 2nd, 3rd yrs., £70, 4th yr., £65, 5th yr., £48, 6th yr., £12; MDS pathol. & bacteriol., £15; LLB, £40 (4th yr., £15); LLM, 12 gns.; BEng, £55; MEng, £15; BVSc, £50 (2nd yr., £55); MVSc, £10 (1st yr., £20 if res. conducted within the univ.); PhD, £20. Dipls.—civic des., £40; educn., £15 (2-yr. course) or £30 (1-yr. course); archæol., £22; pub. admin., £20; archives for the course, £45; indust. sociol., £35; soc. admin., £35; appl. psychol., £35; DMR (D. or T.), £63; DPH, £60; DTM&H, 50 gns.; internat. law, £20; bldg. sci., £40. Certs.—educn., £45; soc. sci., £30 or £35; archæol., £20; engin., £55; teaching of handicapped children, £35. II. *Examination (for the course):* BA, £8 or £9; MA, £5; LittD, £10; BArch, £12; 10s.; MArch, £5; MEd, £5; MCD, £5; BCom, £8; MCom, £5; BSc, £8 to £11; MSc, £5 or £8; DSc (on applicn.), £10; MB ChB, 21 gns.; MD, 10 gns.; ChM, 5 gns. to 10 gns.; MChOrth, 10 gns.; MRad, £10; BDS, 25 gns.; MDS, 10 gns.; LLB, £7 or £8; LLM, £5; LLD (on applicn.), £10; BEng, £9; MEng (on applicn.), £5; DEng (on applicn.), £10; BVSc, 25 gns.; MVSc, £5; DVSc, £10; PhD (on applicn.), £12. Dipls.—£2: 10s.; 6d. to 10 gns. according to dipl. Certs.—£3 to £9 according to cert. III. *Graduation fees:* £5 to £10, according to degree. IV. *Research fees:* £15 per session. V. *Apparatus fee:* £10 (degrees of MSc, MEng, MVSc, PhD, and res.). VI. *Subscription* to guild

of undergrads., 6 gns. per session, to be paid by students attending full regular courses.

**ACADEMIC YEAR.** Oct. to July; 3 terms of 10 wks. each.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**ADULT EDUCATION** (see also 'Teaching Staff', above). A univ. bd. of extra-mural studies, with a number of standing ctees., is responsible for extra-mural work. A variety of courses is organized, incl. postgrad. courses, study courses, and extension courses for the general public. Tutorial and sessional classes are undertaken in collaboration with the W.E.A. and the L.E.A.s throughout the extra-mural area. Lectures for schs. are arranged. The dept. of extra-mural studies is responsible for the administration of civilian aid in educn. for H.M. Forces.

**VACATION COURSES.** Residential and non-residential courses, mostly postgrad., are arranged by the extra-mural dept. during the Easter and occasionally during the long vacation. An international summer sch. is arranged annually at Chester for extension, W.E.A. and overseas students.

**APPOINTMENTS BOARD.** (For sec. and asst. sec., see p. 957.) The function of the bd. is to advise students and grads. concerning careers and employment, and to assist them in obtaining posts.

**ASSOCIATION OF GRADUATES.** Besides convocation, there is a Liverpool Univ. Soc., with mainly social functions. Hon. Sec.: D. Purdon, BEng, 57 Withert Ave., Bebington, Wirral, Cheshire

**RESIDENCE.** (For wardens, see 'Admin. and other Staff', above.) For women: University, Hall, Holly Rd., Fairfield, Liverpool, 7 (tel.: Anfield 1458), 150 students; Dale Hall, Elmswood Rd., Mossley Hill, Liverpool, 18 (tel.: Allerton 2294), 156 students; Rankin Hall, 44 Ullet Rd., Liverpool, 17 (tel.: Sefton Park 1723), 130 students. For men: Derby Hall, North Mossley Hill Rd., Liverpool, 18 (tel.: Allerton 2331), 135 students; Rathbone Hall, North Mossley Hill Rd., Liverpool, 18 (tel.: Allerton 1000), 160 students. Fees for all halls, £148 to £160 per session.

**OFFICERS' TRAINING CORPS.** H.Q. & orderly room: Drill Hall, Upper Warwick St., Liverpool, 8. Trg. wing & cadets' club: T.A. Centre, Upper Warwick St., Liverpool, 8. Hon. Col.: Brigadier R. N. M. Jones, CBE. C.O.: Lieut.-Col. G. E. Beard, TD. 2 i/c and Trg. Officer: Major A. J. MacKenzie. Admin. Officer in charge W.R.A.C. Coy.: Major M. Yeates, W.R.A.C.

**UNIVERSITY AIR SQUADRON.** H.Q.: Royal Air Force, Everton Rd., Liverpool, 6. C.O.: Sqn. Leader N. G. Jones, DFC, BSc. Adjutant: Flight Lieut. R. J. Shelton. Chief Flying Instr.: Flight Lieut. K. J. Miles.

**STUDENT HEALTH SERVICE.** A student health service is provided by the univ., under the control of a chief med. officer, assisted by other med. officers (one of whom is a woman) and a student welfare officer.

**GUILD OF UNDERGRADUATES.** Students' union : 2 Bedford St. North, Liverpool, 7.

**PUBLICATIONS.** *Calendar* (Nov.), 10s. 6d., post free; *Diary* (Oct.), free to members of the univ.; *General Prospectus*; *Prospectuses of Facs. and Schools and leaflets on degree courses* (Sept.), 3d. to 2s. 6d.; *Recorder*, 2s. 6d. p.a. (this is a univ. gazette publ. at beginning of each term); *Students' Handbook* (Aug.), free for freshers;

students' magazine, *The Sphinx*, 1s. (3 nos. per session); *Guild Gazette*, 3d. (3-weekly intervals); med. students' mag., *Sphincter*, 1s. (3 numbers per session).

**UNIVERSITY PRESS**, 123 Grove St., Liverpool, 7 (telegrams : Cormorant, Liverpool, tel. : Royal 3630 and 6022). Sec. : J. G. O'Kane, BCom DipEd *Durh.* Sales manager : C. Taylor. The press publishes works of scholarship, univ. and sch. text-books and books of general interest. It also publishes the following quarterly periodicals : *Annals of Tropical Medicine & Parasitology*, *Journal of Comparative Pathology & Therapeutics*, *Town Planning Review*, *Bulletin of Hispanic Studies* and *Business History*.

## THE YEAR 1959

**PRINCIPAL BENEFACTION.** Friends of Liverpool Radium Inst., £30,307 for cancer res.

**MAJOR BUILDING DEVELOPMENTS.** *Approaching completion* : vet. anat. and vet. pathol. labs. and maths. and oceanography bldg.

**RETIREMENTS.** Dr. R. O. Griffith (inorg. and phys. chem.); Dr. H. Liebeschütz (mediæv. hist.); Dr. W. P. H. Lightbody (trop. hyg.).

**RESIGNATIONS.** Dr. A. Ashmore (phys.); Prof. J. M. Cassels (phys.), to take up an appt. at Corn. (Prof. Cassels has been apptd. to Lyon Jones chair of phys. at Liv. from 1/10/60); A. C. J. Johnson (acoustics); J. Kyle (surg.), apptd. sr. lectr. in surg., Aberd.; Dr. M. M.-J. Lavoipierre (med. entomol.), apptd. to staff of Kaiser Found. Res. Inst., San Francisco; Dr. W. L. Nicholas (zool.), apptd. sr. lectr. in zool., Canberra U.C.; Dr. P. Nidditch (philos.), apptd. lectr. in philos., Brist.; Dr. J. Y. F. Paterson (vet. biochem.), apptd. to staff of inst. of animal physiol., Camb.; Dr. S. Rosenblat (appl. maths.); Dr. J. Sanford (vet. pharmacol.), apptd. lectr. in vet. pharmacol., Glas.; Dr. M. C. Sexton (electronic engin.); Dr. G. L. Slack (prev. dent.), apptd. to chair of dent. surg., Lond. Hosp. Med. Coll.; Dr. J. E. Spice (inorg. & phys. chem.), apptd. hd. of chem. dept., Winchester Coll.; Dr. J. Y. Thompson, (appl. maths.); E. Topley (archit.); Dr. R. G. P. Voss (phys.).

**DEATHS.** Prof. Emer. J. Hay (prof. of med., 1924-34); Prof. Emer. A. L. Robinson (prof. of obstet. & gynæcol., 1932-45); Rev. Canon W. M. F. Scott (hon. lectr. in Hellenistic Greek); Dr. O. F. Thomas (hon. lectr. in pub. health).

**HONORARY DEGREES.** *LLD*—Sir Harold Bibby, chairman, Martin's Bank. *MArch*—Dr. R. Bradbury, city architect & dir. of housing, city of Liv. *MA*—H. Carswell, clerk to Cheshire C.C.; H. S. Magnay, dir. of educn., city of Liv.

## Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	2865	207
Women . . .	905	63
Total	3770	270

**Distribution by Faculties.** *Arts*, 1344; *engin.*, 442; *law*, 95; *med.*, 840; *sci.*, 1147; *vet. sci.*, 172. Total : 4040.

*Included in the figures above are :—*

Postgraduate students, 724.

New admissions, 924.

Students from other countries, 261. (Countries from which largest numbers came : India, 40; Nigeria, 22; Iraq, 21).

**DEGREES AWARDED (1958-59).** *Arts* : BCom, 8; BCom (hons.), 9; BArch, 15; BArch (hons.), 12; BA, 53; BA (hons.), 158; MCD, 19; MArch, 1; MA, 24. *Engin.* : BEng, 45; BEng (hons.), 45; MEng, 3. *Law* : LLB, 7; LLB (hons.), 14; LLM, 1. *Med.* : MB ChB, 68; MB ChB (hons.), 3; ChM, 2; MChOrth, 11; MD, 8; BDS, 2. *Sci.* : BSc, 156; BSc (hons.), 114; MSc, 9; DSc, 6. *Vet. sci.* : BVSc, 18; MVSc, 1. *PhD* (all facs.) : 71. Total number of first degrees awarded, 727.

**DIPLOMAS AWARDED (1958-59).** *Educn.*, 13; civic design, 6; DiplPA, 8; study of records & admin. of archives, 5; indust. sociol., 6; soc. admin., 14; appl. psychol., 3; DPH, 19; DTM&H, 60; DMR, 11; LDS, 12.

**CERTIFICATES AWARDED (1958-59).** *Educn.*, 93; soc. sci., 18.

# UNIVERSITY OF LONDON\*

Founded 1836

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EXTERNAL REGISTRAR—L. E. BALL, OBE, BSc

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## SCHOOLS AND INSTITUTIONS

Univ. teaching is carried on in : (1) univ. institutes of a specialized kind, mostly for post-grad. work ; (2) 'schools of the univ.' ; (3) other

institutions at which there are 'recognized teachers of the univ.'

For the convenience of readers these have been

\* Member of the Association of Universities of the British Commonwealth

divided in the following reference list into university institutes; non-medical schools; undergraduate medical and dental schools; postgraduate medical schools; institutions with recognized teachers.

For a more precise differentiation see the University of London *Calendar*.

### *University Institutes*

Courtauld Institute of Art (p. 978).  
Institute of Advanced Legal Studies (p. 979).  
Institute of Archaeology (p. 980).  
Institute of Classical Studies (p. 981).  
Institute of Commonwealth Studies (p. 982).  
Institute of Education (p. 983).  
Institute of Germanic Languages and Literatures (p. 987).  
Institute of Historical Research (p. 987).  
School of Slavonic and East European Studies (p. 988).  
Warburg Institute (p. 990).

### *Non-Medical Schools*

Bedford College (for women) (p. 991).  
Birkbeck College (p. 994).  
Imperial College of Science and Technology (p. 997).  
King's College (p. 1005).  
London School of Economics and Political Science (p. 1010).  
Queen Elizabeth College (p. 1015).  
Queen Mary College (p. 1016).  
Royal Holloway College (for women) (p. 1020).  
Royal Veterinary College (p. 1022).  
School of Oriental and African Studies (p. 1024).  
School of Pharmacy (p. 1029).  
University College (p. 1031).  
Westfield College (for women) (p. 1041).  
Wye College (p. 1042).

Theological Schools (p. 1045)

- \*King's College: Theol. Dept.
- \*New College.
- \*Richmond College.

### *Undergraduate Medical and Dental Schools*

Charing Cross Hospital Medical School (p. 1046).  
Guy's Hospital Medical School (p. 1048).  
King's College Hospital Medical School (p. 1051).  
London Hospital Medical College (p. 1053).  
Middlesex Hospital Medical School (p. 1056).  
Royal Dental Hospital of London, School of Dental Surgery (p. 1058).  
Royal Free Hospital School of Medicine (p. 1060).  
St. Bartholomew's Hospital Medical College (p. 1062).

St. George's Hospital Medical School (p. 1064).  
St. Mary's Hospital Medical School (p. 1067).  
St. Thomas's Hospital Medical School (p. 1069).  
University College Hospital Medical School (p. 1072).  
Westminster Medical School (p. 1075).

### *Postgraduate Medical Schools*

British Postgraduate Medical Federation (p. 1078) :—  
Postgraduate Medical School of London (p. 1083).  
Institute of Basic Medical Sciences (p. 1083).  
Institute of Cancer Research (p. 1084).  
Institute of Cardiology (p. 1084).  
Institute of Child Health (p. 1084).  
Institute of Dental Surgery (p. 1085).  
Institute of Dermatology (p. 1085).  
Institute of Diseases of the Chest (p. 1085).  
Institute of Laryngology and Otology (p. 1086).  
Institute of Neurology (p. 1086).  
Institute of Obstetrics and Gynaecology (p. 1086).  
Institute of Ophthalmology (p. 1087).  
Institute of Orthopaedics (p. 1087).  
Institute of Psychiatry (p. 1087).  
Institute of Urology (p. 1088).

London School of Hygiene and Tropical Medicine (p. 1088).

\*Lister Institute of Preventive Medicine (p. 1091).

### *\*Institutions with Recognized Teachers*

University of London: Goldsmiths' College (p. 1093).  
Battersea College of Technology (p. 1093).  
Chelsea College of Science and Technology (p. 1093).  
College of Estate Management (p. 1093).  
East Malling Research Station (p. 1093).  
Jews' College (p. 1093).  
Maria Grey College (p. 1093).  
National Institute for Medical Research (p. 1093).  
Northampton College of Advanced Technology (p. 1093).  
Northern Polytechnic (p. 1093).  
Rothamsted Experimental Station (p. 1094).  
Royal Academy of Music (p. 1094).  
Royal College of Music (p. 1094).  
Sir John Cass College (p. 1094).  
Trinity College of Music (p. 1094).  
West Ham College of Technology (p. 1094).  
Woolwich Polytechnic (p. 1094).

## GENERAL INFORMATION

*The univ. authorities wish it to be clearly understood that they can accept no responsibility for any information concerning exams. or procedure except*

*that contained in the latest edition of their own official regns., which can always be obtained on applicn. at the univ. offices, Senate House, London, W.C.1.*

Not in receipt of U.G.C. grants



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## SCHOOLS AND INSTITUTIONS

Univ. teaching is carried on in : (1) univ. institutes of a specialized kind, mostly for postgrad. work ; (2) 'schools of the univ.' ; (3) other

institutions at which there are 'recognized teachers of the univ.'

For the convenience of readers these have been

\* Member of the Association of Universities of the British Commonwealth

divided in the following reference list into university institutes; non-medical schools; undergraduate medical and dental schools; postgraduate medical schools; institutions with recognized teachers.

For a more precise differentiation see the University of London Calendar.

### *University Institutes*

Courtauld Institute of Art (p. 978).  
Institute of Advanced Legal Studies (p. 979).  
Institute of Archaeology (p. 980).  
Institute of Classical Studies (p. 981).  
Institute of Commonwealth Studies (p. 982).  
Institute of Education (p. 983).  
Institute of Germanic Languages and Literatures (p. 987).  
Institute of Historical Research (p. 987).  
School of Slavonic and East European Studies (p. 988).  
Warburg Institute (p. 990).

### *Non-Medical Schools*

Bedford College (for women) (p. 991).  
Birkbeck College (p. 994).  
Imperial College of Science and Technology (p. 997).  
King's College (p. 1005).  
London School of Economics and Political Science (p. 1010).  
Queen Elizabeth College (p. 1015).  
Queen Mary College (p. 1016).  
Royal Holloway College (for women) (p. 1020).  
Royal Veterinary College (p. 1022).  
School of Oriental and African Studies (p. 1024).  
School of Pharmacy (p. 1029).  
University College (p. 1031).  
Westfield College (for women) (p. 1041).  
Wye College (p. 1042).

Theological Schools (p. 1045)

- \*King's College: Theol. Dept.
- \*New College.
- \*Richmond College.

### *Undergraduate Medical and Dental Schools*

Charing Cross Hospital Medical School (p. 1046).  
Guy's Hospital Medical School (p. 1048).  
King's College Hospital Medical School (p. 1051).  
London Hospital Medical College (p. 1053).  
Middlesex Hospital Medical School (p. 1056).  
Royal Dental Hospital of London, School of Dental Surgery (p. 1058).  
Royal Free Hospital School of Medicine (p. 1060).  
St. Bartholomew's Hospital Medical College (p. 1062).

St. George's Hospital Medical School (p. 1064).  
St. Mary's Hospital Medical School (p. 1067).  
St. Thomas's Hospital Medical School (p. 1069).  
University College Hospital Medical School (p. 1072).  
Westminster Medical School (p. 1075).

### *Postgraduate Medical Schools*

British Postgraduate Medical Federation (p. 1078):—

Postgraduate Medical School of London (p. 1083).  
Institute of Basic Medical Sciences (p. 1083).  
Institute of Cancer Research (p. 1084).  
Institute of Cardiology (p. 1084).  
Institute of Child Health (p. 1084).  
Institute of Dental Surgery (p. 1085).  
Institute of Dermatology (p. 1085).  
Institute of Diseases of the Chest (p. 1085).  
Institute of Laryngology and Otology (p. 1086).  
Institute of Neurology (p. 1086).  
Institute of Obstetrics and Gynaecology (p. 1086).  
Institute of Ophthalmology (p. 1087).  
Institute of Orthopaedics (p. 1087).  
Institute of Psychiatry (p. 1087).  
Institute of Urology (p. 1088).

London School of Hygiene and Tropical Medicine (p. 1088).

\*Lister Institute of Preventive Medicine (p. 1091).

### *\*Institutions with Recognized Teachers*

University of London: Goldsmiths' College (p. 1093).  
Battersea College of Technology (p. 1093).  
Chelsea College of Science and Technology (p. 1093).  
College of Estate Management (p. 1093).  
East Malling Research Station (p. 1093).  
Jews' College (p. 1093).  
Maria Grey College (p. 1093).  
National Institute for Medical Research (p. 1093).  
Northampton College of Advanced Technology (p. 1093).  
Northern Polytechnic (p. 1093).  
Rothamsted Experimental Station (p. 1094).  
Royal Academy of Music (p. 1094).  
Royal College of Music (p. 1094).  
Sir John Cass College (p. 1094).  
Trinity College of Music (p. 1094).  
West Ham College of Technology (p. 1094).  
Woolwich Polytechnic (p. 1094).

## GENERAL INFORMATION

*The univ. authorities wish it to be clearly understood that they can accept no responsibility for any information concerning exams. or procedure except*

*that contained in the latest edition of their own official regns., which can always be obtained on applicn. at the univ. offices, Senate House, London, W.C.1.*

\* Not in receipt of U.G.C. grants

The univ. was constituted by royal charter in 1836 as a body empowered to grant degrees to students of approved institutions after exam. and, until 1900, its work was confined to the examination of students. The system whereby entrance to its exams. was restricted to students of certain affiliated colls. was abolished, except for exams. in med., in 1858. In 1878 its degrees were thrown open to women, London being the first of the univs. of Gt. Britain to adopt this policy.

In 1900 the univ. was reconstituted so as to strengthen the ties between it and the institutions engaged in higher educn. in the London area. The senate was empowered to admit as *schools of the univ.* institutions, situated within the admin. county of London and not carried on for the private gain or profit of the owners, which provide educn. of univ. standard, and was required to obtain reports at prescribed intervals on the efficiency of such schs. A sp. form of recognition could be given to an institution within the same area founded for res. or the cultivation of any sp. branch of sci. or learning, and the Lister Inst. of Prev. Med. has been admitted in this category.

The two original colls. of the univ. have been incorporated in it, Univ. Coll. in 1907 and King's Coll. in 1910, by special acts of parliament.

There are now 14 non-med. and 15 med. schs. (incl. 2 postgrad.) in receipt of U.G.C. grants, and 4 schs. not in receipt of U.G.C. grants. In addn. there are 10 univ. institutes. There are 18 non-univ. instns. having some *recognized teachers*.

**CONSTITUTION.** The univ. is governed under statutes made under the Univ. of London Act, 1926.

The court has the custody, control and disposition of all the property, funds and investments of the univ. and controls its finances. It comprises the chancellor, vice-chancellor, chairman of convocation and 14 other members, of whom 6 are apptd. by the senate, 4 by H.M. in Council and 3 by local authorities, 1 member being co-opted. One of its most important duties is to apply for the grants for univ. purposes to the Univ. Grants Cttee., the London County Council, county councils and county borough councils of the home counties, and other public bodies, and to distribute the sums so received between univ. instns. and those schs. which receive financial aid from the univ.

The court is also responsible for the devel. of the univ. precinct (*see below*).

The senate is the supreme governing and executive body of the univ. in all academic matters. It is composed of reps. of the facs. and of convocation, the principal, and certain hds. of schs. All *appointed teachers* at schs. of the univ. are apptd. by the senate, which also has power to recognize as teachers of the univ. members of the teaching staff of certain approved public educnl. instns., whether schs. of the univ. or not.

Convocation consists of grads. of the univ. who have attained the age of 21 yrs., together with members of the 5 standing cttees. of the senate,

who have paid the prescribed fees. It elects the chancellor, and 18 members of the senate in addn. to the chairman of convocation, who is *ex officio* a member of the senate and court. Convocation may discuss any matter relating to the univ. and declare its opinion thereon to the court or senate.

**UNIVERSITY PRECINCT.** The administration of the univ. is centred at the Senate House, W.C.1, which provides accomm. for offices and the univ. library, as well as for the Insts. of Educn., Historical Research and Slavonic Studies. The bldg., designed by Charles Holden and opened in 1936, was erected on part of the Bloomsbury site, an area of 11½ acres purchased in 1927. A further 13½ acres were purchased from the Bedford estate in 1951. Substantial purchases of property have also been made on behalf of Univ. Coll., which now owns the greater part of the rectangle in which it is situated. This rectangle, together with the original Bloomsbury site and the areas purchased from the Bedford estate since the war, provides a compact area between the British Museum and the Euston Rd. for development for univ. purposes and a comprehensive outline development plan for the area has been prepared by Prof. Sir Leslie Martin.

**INCOME (1958-59).** The total income for recurrent purposes of the univ., incl. all its schs. and instns., was £14,839,428 (Treasury grants, 71.7 per cent.; grants from other govt. depts., 0.1 per cent.; grants in aid from local authorities, 2.9 per cent.; fees (incl. Ministry of Educn. tuition grants for teachers in trg.), 9.9 per cent.; endowments for both particular and general purposes, 1.6 per cent.; donations and subs., 0.6 per cent.; grants for res. and income from res. contracts, 7.6 per cent.; contributions for services rendered, 3.2 per cent.; other sources, 2.4 per cent.).

The **UNIVERSITY LIBRARY** is a general library incl. all subjs. studied in the univ., but it is specially strong in the humanities, particularly in Engl. lit., incl. large Shakespeare collection. It contains about 700,000 vols. and 4000 current periodicals, and provides reading accomm. for 450 readers and an extensive loan service for members of the univ. Among its sp. collections are the Goldsmiths' libr. of econ. lit. (c. 70,000 vols. & pamphlets); the Durning-Lawrence libr., containing an important collection of books by and about Sir Francis Bacon, and a good working libr. on Shakespeare including the four folios; the De Morgan libr. of mathl. and astronomical books; the Quick memorial libr. of books on educn., especially rich in old text-books for the school-room; the Harry Price libr. of magical lit.; the Eliot-Phelps collection of Spanish books and works on the history of Spain; and the Sterling libr. of rare Engl. books.

The music libr. contains books and periodicals on music, music scores, gramophone records and pianola rolls, and is equipped with audition rooms. The photographic dept. is equipped to produce photostats, microfilms, enlargements, reflex and

diaz copies, and work is undertaken both for instns. and members of the univ. and also for those unconnected with the univ.

Each sch. and institution of the univ. has its own library, and some particulars of these will be found in the respective *Yearbook* entries below. For further details of the libraries of the univ., see R. A. Rye: *Students' Guide to the Libraries of London*, 1927; R. Irwin: *The Libraries of London*, 1949; and L. M. Harrod: *The Libraries of Greater London*, 1951.

**FACULTIES AND DEANS.** *Arts*, Prof. J. S. Spink (Bedford Coll.); *econ. (incl. comm. & industry) and pol. sci.*, H. Tout (Univ. Coll.); *engin.*, Prof. J. Greig (King's Coll.); *laws*, Prof. G. D. Nokes (King's Coll.); *med.*, Dr. H. B. May (London Hosp. Med. Coll.); *music*, Dr. W. Dunwell (Trinity Coll. of Music); *sci.*, Prof. J. A. B. Gray (Univ. Coll.); *theol.*, Rev. G. F. Nuttall (New Coll.).

**TERMS** for univ. and inter-collegiate courses, 1959-60: Oct. 7-Dec. 16; Jan. 13-March 23; April 27-July 6. 1960-61: Oct. 5-Dec. 14; Jan. 11-March 22; April 26-July 5.

**ADMISSION.** Intending students who are suitably qualified (see Appendix II) must apply to the sec. to the univ. entrance requirements dept., on form M (obtainable from the sec.), for a 'statement of eligibility'. They must apply to the sch. of their choice (see pp. 962-963) for admission. The admission of students, provided they satisfy univ. entrance requirements, is entirely a matter for the individual schs. In all facs., except theol., med., laws and econ., fac. requirements (see Appendix II) must also be satisfied.

**DEGREES.** BD, MTh, DD; BA, MA, DLit; LLB, LL.M, LL.D; BMus, DMus; MB BS, MD, MS; BDS, MDS; BVetMed, MVetMed; BPharm, MPharm; BSc, MSc, DSc; PhD (in all facs.).

The BSc and DSc are granted in the facs. of sci. (incl. agric., hort., and, for internal students, BSc in household sci. and in nutrition), engin., and econ. (incl. estate management); the MSc in sci. (incl. agric., hort., and, for internal students, household sci. and nutrition), engin. and econ. (incl. estate management).

**EXTERNAL STUDENTS** are permitted to proceed to the degrees of BD, BA, LL.B, BMus and BSc (in the facs. of sci. and econ.) without restriction on the nature of the course of study, which may be pursued in a teaching instn. in London (not forming part of the Univ. of London); in a teaching instn. situated elsewhere in the United Kingdom or overseas; or by private study. Exams. are held each yr. at centres located in many parts of the U.K. and in many countries overseas.

External students are also permitted to proceed to the degrees of MB BS, BDS, BPharm and BSc (in the fac. of engin.) provided that an approved course of study has been completed in a teaching instn. which has been recognized by the Univ. of

London for the purpose of these exams. (With very few exceptions, all such instns. are situated in the U.K.)

External students who wish to proceed to the degree of BA or BSc with sociol. as the principal subj. are normally required to pursue their studies in the U.K. and to attend course at approved instns., but exceptions may be made in sp. cases.

A student who wishes to proceed to the external higher degrees of MTh, MA, LL.M, MD, MS, MDS, MPharm and MSc (in the facs. of sci., engin. and econ.) and/or to the external degree of PhD (in all facs.) must normally already possess an appropriate bachelor's degree of the Univ. of London.

The degrees of DD, DLit, LL.D, DMus and DSc (in the facs. of sci., engin. and econ.) are not differentiated between internal and external students, but all candidates for these degrees are required to hold at least one degree of the Univ. of London in the appropriate fac.

All external students are required to register, and all must previously have matriculated or must satisfy the min. entrance requirements of the univ. at the time of first registration and the addnl. requirements prescribed before admission to the exams. for the particular degree. Copies of all regns. may be obtained from the external registrar.

An **INTERNAL STUDENT**, before being allowed to enter as such for any exam., must, unless specially exempted, have attended courses in all the subj. thereof. For a 1st degree in any fac. he must have completed an approved course of study extending over at least 3 yrs. which must, ordinarily, have been continuously pursued, but not necessarily all at one institution. As a general rule, hons. may be taken at the final exams. A course of study extending over not more than 1 yr. taken in another univ. approved for the purpose subsequently to a student's passing the inter. may be accepted, subject to regns., in lieu of a course taken in this univ.

**INTERNAL DEGREES.\*** Courses for internal degrees are provided at the following:

*Theology.* King's Coll. Theol. Dept., New Coll., Richmond Coll.

*Arts.* Courtauld Inst. of Art, Sch. of Slavonic and E. European Studies, Bedford Coll. (for women), Birkbeck Coll. (for pt.-time students and some full-time postgrad. students), King's Coll., London Sch. of Econ. (*anthropol., hist., geog., philosophy and econ. and sociol. only*), Queen Mary Coll., Royal Holloway Coll. (for women), Sch. of Oriental and African Studies, Univ. Coll., Westfield Coll. (for women), Jews' Coll.

*Architecture.* Univ. Coll.

*Laws.* King's Coll., London Sch. of Econ., Sch. of Oriental and African Studies, Univ. Coll.

*Music.* Battersea Coll. of Technol., Royal Academy of Music, Royal Coll. of Music, Trinity Coll. of Music.

*Medicine.* Guy's Hosp. Med. Sch., Middlesex Hosp. Med. Sch., Royal Free Hosp. Sch. of Med., St. Bartholomew's Hosp. Med. Coll., St. Mary's

\* See also Table on pp. 968-970

Hosp. Med. Sch., St. Thomas's Hosp. Med. Sch., and, with the exception of the 1st yr., Charing Cross Hosp. Med. Sch. and the London Hosp. Med. Coll. Courses for the 1st & 2nd exams. for med. degrees are provided at King's Coll. and for the 2nd exam. for med. degrees only at Univ. Coll. Students from King's Coll. attend the clin. course at King's Coll. Hosp. Med. Sch., St. George's Hosp. Med. Sch. or Westminster Med. Sch. Students from Univ. Coll. attend the clin. course at Univ. Coll. Hosp. Med. Sch. Courses for the 1st exam. for med. degrees are also held at Queen Mary Coll., Chelsea Coll. of Sci. and Technol. and Northern Polytechnic.

Dental surgery. Guy's Hosp. Med. Sch., King's Coll. Hosp. Med. Sch., London Hosp. Med. Coll., Royal Dental Hosp. of London Sch. of Dental Surg., Univ. Coll. Hosp. Med. Sch.

Veterinary medicine. Royal Veterinary Coll. Pharmacy. School of Pharmacy, Chelsea Coll. of Sci. and Technol.

Postgraduate. British Postgrad. Med. Federation (Postgrad. Med. Sch. of London, Inst. of Basic Medical Sciences, Inst. of Cancer Res., Inst. of Cardiol., Inst. of Child Health, Inst. of Dental Surg., Inst. of Dermatol., Inst. of Diseases of the Chest, Inst. of Laryngol. and Otol., Inst. of Neurol., Inst. of Obstet. and Gynæcol., Inst. of Ophthalmol., Inst. of Orthopædics, Inst. of Psychiatry, Inst. of Urol.), London Sch. of Hyg. and Trop. Med., Lister Inst. of Prev. Med.

Science. Bedford Coll. (for women), Birkbeck Coll. (for pt.-time students and some full-time postgrad. students), Imperial Coll. of Sci. and Technol., King's Coll., Queen Elizabeth Coll., Queen Mary Coll., Royal Holloway Coll. (for women), Univ. Coll., London Sch. of Hyg. and Trop. Med., Battersea Coll. of Technol., Chelsea Coll. of Sci. and Technol., Northern Polytechnic, Sir John Cass Coll., West Ham Coll. of Technol., Woolwich Polytechnic.

Agriculture and horticulture. Wye Coll.

Household science and nutrition. Queen Elizabeth Coll.

Engineering. Imperial Coll. of Sci. and Technol., King's Coll., Queen Mary Coll., Univ. Coll., Battersea Coll. of Technol., Northampton Coll. of Advanced Technol., Sir John Cass Coll. (metall. only), West Ham Coll. of Technol., Woolwich Polytechnic.

Economics. Bedford Coll. (for BSc(Soc.) only), London Sch. of Econ., Univ. Coll.

Estate management. Coll. of Estate Management.

Courses for the postgrad. cert. in educn. are held at the Inst. of Educn., King's Coll., Goldsmiths' Coll. and Maria Grey Coll.

*The Table of First Degree Courses on pp. 968-970 shows by which schools of the univ. courses in various subjects are provided. (In addition, courses leading to certain internal degrees of the univ. are provided by certain of the Institutions with Recognized*

*Teachers of the Univ. of London—see above and pp. 1093-1094.)*

The following is a brief summary of the regns. There are many exceptions and exemptions in regard to which reference should be made to the latest edition of the *Regulations* published by the univ. (see p. 976).

ARTS. The following *first degrees* are awarded: BA (general), BA hons., BA hons. in archit.

BA (general) and BA hons. Normally not less than 3 yrs. In the exam. for BA (general) degree 3 subjs. must be taken. The BA hons. degree may be taken in any one of the following branches: classics, Greek, Latin, hist., hist. of art, geog., maths., philos., psychol., sociol., Dutch, Engl., French, German, Italian, Portuguese, Roumanian lang. & lit., Spanish, Scandinavian langs., Czech, and Slovak lang. & lit., Hungarian lang. & lit., Polish lang. & lit., Russian lang. & lit., Serbo-Croat lang. & lit., Slavonic and E. European regional studies, classical Arabic (in 1961 only), Arabic (in and after 1962), classical Chinese, mod. Chinese, Hebrew, Hebrew and Arabic, classical Japanese, mod. Japanese, Malay, Pali, classical Persian, Sanskrit, Sinhalese, Turkish; also archit. and Celtic for external students and, for internal students, African studies, anthropol., Bengali, Burmese, Gujarati, Hebrew and Assyrian, Hebrew and Egyptian, Hindi, Marathi, philos. and Greek, philos. and econ., philos. and psychol., Tamil and Urdu. Candidates for BA hons. degrees in certain subjs. must also offer a subsidiary subj. The BA in archit. course for internal students extends over 5 yrs.

The following *higher degrees* are awarded: MA, MA in archit., PhD, DLit. Admission to exams. for these degrees is confined to grads. of this or other univs. except DLit, which is confined to grads. of the Univ. of Lond. Exam. for the MA degree may be by written papers and/or by thesis and oral exam. Exam. for the PhD degree is by thesis and oral (examiners may require written and/or practical). Candidates for the DLit degree must have previously obtained the BA or MA degree or PhD degree in the fac. of arts. The DLit degree is conferred for original publd. work.

*Diplomas.* Internal: academic dipls. in educn., 1 yr.; geog., 2 yrs.; hist. of art, 2 yrs. postgrad.; town planning, pt.-time, 2-3 terms. Academic postgrad. dipls. in anthropol., archæol., compar philol., phonetics, social studies in tropical territories, 2 yrs.; psychol., 1 yr. whole-time, 2 yrs. pt.-time; archive admin., librarianship, 1 yr. whole-time, 2-5 yrs. pt.-time; postgrad. cert. in educn., 1 yr.; dipl. in fine art, 4 yrs. External: dipls. in geog., educn.; postgrad. cert. in educn. For dipls. in the humanities, see Extra-Mural Studies, *below*.

SCIENCE. The following *first degrees* are awarded:

BSc (general): normally 3 yrs.; prelim. qualifs., normally 3 specified subjs. of G.C.E., incl. 2 at advanced level; pt. I of final exam.,

taken after 1 yr., in 3 subjs. selected from approved list; pt. II of final exam., taken 2 yrs. after completion of pt. I, in 2 subjs. selected from bot., chem., geol., human biol., phys., physiol., zool., astron., geog., maths. (pure & appl.), psychol., pure maths. and stats. *BSc (special)*: normally 3 yrs.; prelim. qualifs., normally 3 specified subjs. at G.C.E. advanced level or the equivalent. Final exam. in the principal subj. and exams. in 1 or more ancillary subjs. The subjs. for *BSc (special)* are anat., anthropol., astron., biochem., bot., chem., geog., geol., maths., phys., physiol., psychol., stats., zool. In each of the subjs. biochem., chem., geol., maths., phys., physiol., stats., a student already registered for *BSc (special)* in that subj. and having completed at least 1 yr. of the course for that degree may on applicn. be permitted to transfer to a course leading to the final exam. for the degree of *BSc*—without hon.—in that subj. *BSc (Agriculture)*: normally a 3-yr. course; prelim. qualifs., 2 specified subjs. at G.C.E. advanced level or the equivalent; 1st exam. in phys. scis. and biol., 2nd exam. in econ. and final exam. in crop production, animal production and rural econ. *BSc (Horticulture)*: normally a 3-yr. course; first exam. in 5 subjs. Final exam., principles and practice of hortic. *BSc (Nutrition)*: normally a 3-yr. course; prelim. qualifs., 4 specified subjs. at G.C.E. incl. 2 at advanced level. Final exam., pt. I in biol. and phys., pt. II in chem. and pt. III in nutrition and physiol. *BSc (Household Science)*: as for *BSc (Nutrition)* except that pt. II includes physiol. also and pt. III consists of household sci. and either chem. or physiol.

Exemptions may be granted, under certain conditions, from prelim. and ancillary subj. exams.

The following *higher degrees* are awarded: MSc, PhD, DSc. The MSc is conferred in the following branches: agric., anat., anthropol., astron., biochem., biophys., bot., chem. engin., chem., crystallog., genetics, geog., geol., geophys., hist. & philos. of sci., hortic., maths., microbiol., pharmacol., phys., physiol., psychol., radiation biol., radiation phys., stats., zool. The MSc is obtainable by written exam., dissertation, practical and oral, or by some of these methods or by thesis and oral; the PhD by thesis and oral. (Examiners may also require written and/or practical.) Admission to exams. for these degrees is confined to grads. of this or other univs. DSc candidates must already have obtained a degree of this univ. in sci. (or in certain cases in arts, med. or engin.) and must submit original publ. work.

*Diplomas*. Academic postgrad. dipl. in bacteriol., 1 yr.; academic postgrad. dipl. in dietetics, about 1 yr.; academic dipl. in geog., 2 yrs.; academic postgrad. dipl. in maths., 1 yr. whole-time, 2 yrs. pt.-time; academic postgrad. dipl. in numerical analysis, 1 yr. whole-time, 2 yrs. pt.-time; academic postgrad. dipl. in psychol., 1 yr. whole-time, 2 yrs. pt.-time; academic postgrad. dipl. in stats., 1 yr. whole-time, 2 yrs. pt.-time; external dipl. in geog., 1-2 yrs.

**THEOLOGY**. Inter. (*old regns.*—last exam. under these regns. to be held in 1961): subjs.—new test. Greek, and 4 of following: classical Greek, elem. Hebrew, Latin, anc. hist., general ethics, ethics (set book), general psychol., psychol. of religion. Exemptions: a degree with 1st or 2nd class hon. in any subj. of this or other approved univ. in British Isles or the degree of BA (general), 1st or 2nd div. of this univ. exempts from whole exam.; inter. in arts and higher sch. cert. (or G.C.E. at advanced level) may carry exemption in particular subjs. Prelim. (*revised regns.*): subjs. for BD—new test. Greek; for BD hon.—new test. Greek, old test. Hebrew.

*First degree*. BD (*old regns.*—last exam. under these regns. to be held in 1964). Not less than 2 yrs. after inter. Final exam. covers 5 compulsory subjs. (old test., new test., biblical & hist. theol., church hist., philos. introdn. to theol.) and a selected subj. BD (*revised regns.*). At end of 3rd yr. final exam. covers 5 compulsory subjs. (old test., new test., biblical & hist. theol., church hist., philos. of religion) and a selected subj. BD hon. At end of 3rd yr. final exam. consists of 10 written papers (old test. I and II, new test. I and II, Christian doctrine to A.D. 451, church hist., philos. of religion plus 2 sp. subjs. and an optional subj.).

*Higher degrees*. MTh is open to those who have obtained BD with 1st or 2nd class (upper div.) hon. of this univ. or BD with hon. of this univ. in or before 1964. Grads. of this univ. with other degrees will be required to pass a qualifying exam. Grads. of other univs. must have equivalent qualifs., failing which they will be required to pass a qualifying exam. Candidates are examined in any one of 6 branches.

DD. Candidates must have obtained BD (hons.) or MTh or PhD of this univ. and must submit publ. work.

*Diplomas*. Academic dipl. in theol., 2 yrs. (also for external students).

**LAW**. Inter.: Course extends over 1 yr. Subjs.: Roman private L., constitutional L., Engl. legal system, elements of L. of contract. Exemptions: a pass at BA (gen.) in constitutional laws of the British Empire exempts from constitutional L., and in general principles of Engl. private L. exempts from elements of the L. of contract; *BSc (Econ)* with a pass at pt. I in elements of Engl. L. exempts from Engl. legal system.

*First degree*. LLB. Normally 2 yrs. after inter. The final exam. is in 2 pts. and candidates must normally pass pt. I before entering for pt. II. Pt. I consists of 4 selected papers. Pt. II consists of a paper on jurispr. and legal theory and 3 papers chosen from a list of 14 alternative subjs.

*Higher degrees*. LL.M. Normally no candidate is admitted until 2 yrs. after passing the LLB or academic postgrad. dipl. in law or equivalent. Candidates are examined in 4 papers chosen from a list of 26, or in sp. cases may submit a dissertation

[continued on p. 972]

TABLE OF FIRST DEGREE COURSES AT SCHOOLS OF UNIVERSITY OF LONDON  
(For Notes, see p. 971)

For an explanation of the symbols used, see p. 971.											
	Bedford	Birkbeck	Imperial	King's	London School of Economics	Queen Elizabeth	Queen Mary	Royal Holloway	School of Oriental and African Studies	University College	Westfield
Anatomy <sup>1</sup>										✓	
Anthropology										✓	
Astronomy										✓	
Biochemistry	✓									✓	
Botany <sup>2</sup>	✓✓	✓✓	✓	✓✓		✓	✓✓	✓✓		✓	✓✓
Chemistry <sup>2</sup>	✓✓	✓✓	✓	✓✓		✓	✓✓	✓✓		✓	✓✓
Geography	✓✓	✓✓		✓✓			✓✓			✓	
Geology <sup>2</sup>	✓✓	✓✓	✓	✓✓			✓✓			✓	
Mathematics	✓✓	✓✓	✓	✓✓		✓	✓✓	✓✓		✓	✓✓
Physics <sup>2</sup>	✓✓	✓✓	✓	✓✓		✓	✓✓	✓✓		✓	✓✓
Physiology <sup>4</sup>	✓✓					✓				✓	
Psychology	✓✓	✓✓								✓	
Statistics										✓	
Zoology <sup>2</sup>	✓✓	✓✓	✓	✓		✓	✓✓	✓✓		✓	✓✓
BSc(Agric) and BSc(Hortic)											✓✓
BSc(Nutrition) & BSc(Household Sci)						✓					

Aesthetics	✓	✓
African Studies		
Anthropology		
Art, History of	✓	
Dutch	✓✓	
Economics <sup>s</sup>	✓	
English	✓✓	
Ethics	✓	
French	✓✓	
Geography	✓✓	
German	✓✓	
Greek <sup>s</sup>	✓✓	
Hebrew <sup>s</sup>		
History	✓✓	
Italian	✓✓	
Latin	✓✓	
Logic	✓	
Mathematics	✓✓	
Music		
Oriental and African Languages		
Philosophy <sup>s</sup>	✓✓	
Portuguese		
Psychology <sup>s</sup>	✓✓	
Scandinavian Languages		



TABLE OF FIRST DEGREE COURSES AT SCHOOLS OF UNIVERSITY OF LONDON—continued

(For Notes, see p. 971)

<i>For an explanation of the symbols used, see p. 971.</i>		Bedford	Birkbeck	Imperial	King's	London School of Economics	Queen Elizabeth	Queen Mary	Royal Holloway	School of Oriental and African Studies	University College	Westfield	Wye	School of Slavonic and E. European Studies	Courtauld Institute of Art
Slavonic and E. European Languages						✓								✓✓	
Sociology	✓														
Spanish <sup>7</sup>	✓	✓✓			✓✓			✓✓					✓		
Theology				✓											
War Studies				✓											
BA in Architecture											✓				
Aeronautical Engineering				✓					✓						
Civil, Electr. & Mech. Engineering				✓	✓			✓			✓				
BSc (Chemical Engineering)				✓							✓				
BSc (Metallurgy)				✓											
BSc (Mining) <sup>8</sup>				✓											
BSc (Economics)						✓					✓				
BSc (Sociology)	✓					✓									
Courses in Faculty of Laws <sup>8</sup>				✓	✓	✓				✓	✓				
Courses in Faculty of Theology <sup>9</sup>				✓✓											
Courses in Faculty of Medicine— <sup>9</sup>															

Courses in Faculty of Engineering—BSc (Engineering)

Courses in Faculty of Economics

Courses in Faculties of Laws

Theology

Medicine

## NOTES TO TABLE

The symbol ✓ means that the subject mentioned may be studied for an honours or special degree. The symbol ✓ means that the subject mentioned may be studied as part of the course for a general degree.

### *Faculty of Science*

1. ANATOMY. Students at King's Coll. must first enter the fac. of med. and pass the 2nd exam. for medical degrees. Courses also available at certain med. schools under similar conditions.

2. From Oct. 1961 courses will be introduced in bot., chem., maths., phys. and zool. for BSc(special) and BSc(general) degrees at Westfield Coll.

3. Special regns. are in force at Imperial Coll. for BSc(special) degree in mining geol. and in the technol. of oil.

4. PHYSIOLOGY. Courses also available to students who have completed their pre-clin. trg. at certain medical schools.

### *Faculty of Arts*

5. PHILOSOPHY. The following courses are available for BA honours degree :—*Philos.* (not at London Sch. of Economics) ; *Philos. & econ.* (not at Birkbeck Coll. or King's Coll.) ; *Philos. & psychol.* (not at King's Coll. or London Sch. of Economics) ; *Hist. of Philos.* is available for BA general degree. A course in *Philos. & Greek* will be introduced in 1960 for BA honours degree.

6. HEBREW. Courses also available at Jews' College.

7. SPANISH available at Bedford Coll. by arrangement with King's Coll.

### *Faculty of Laws*

8. Courses for LL.B. available at Sch. of Oriental and African Studies, but students must register at other colls.

### *Faculty of Theology*

9. Courses also available at New Coll. and at Richmond Coll.

### *Faculty of Medicine*

10. Courses for degrees of MB BS available at the following schools :—  
 Charing Cross Hosp. Med. Sch. ; Guy's Hosp. Med. Sch. ; King's Coll. Hosp. Med. Sch. ; London Hosp. Med. Coll. ; Middlesex Hosp. Med. Sch. ; Royal Free Hosp. Sch. of Med. ; St. Bartholomew's Hosp. Med. Coll. ; St. George's Hosp. Med. Sch. ; St. Mary's Hosp. Med. Sch. ; St. Thomas's Hosp. Med. Sch. ; University Coll. Hosp. Med. Sch. ; Westminster Med. Sch.

11. Courses for the BDS degree available at :—Guy's Hosp. Dental Sch. ; King's Coll. Hosp. Med. Sch. ; London Hosp. Med. Coll. ; Royal Dental Hosp. of London Sch. of Dental Surg. ; University Coll. Hosp. Med. Sch.

12. Courses for degree of bachelor of veterinary medicine available at Royal Veterinary Coll.

13. Courses for degree of bachelor of pharmacy available at Sch. of Pharmacy.

*continued from p. 967]*

and be examined in 2 papers. LLD. Candidates must hold the LLB or LL.M or the PhD in the fac. of laws and must submit publ. work.

*Diploma.* Academic postgrad. dipl. in law, not less than 1 yr.

**MEDICINE.** MB BS degrees: the course for the MB BS degrees extends normally over 5½ yrs. The 1st exam. for med. degrees (chem., phys. and biol.) is taken after 3 terms. G.C.E. at advanced level or inter. in sci. or higher sch. cert. may carry exemption from whole or part of 1st MB. The 2nd exam. for med. degrees (human anat., physiol. and pharmacol.) is normally taken 5 terms after passing the 1st exam. The course for the 3rd (final) exam. for med. degrees extends over 3 yrs. and is divided as follows: pt. I: pathol.; pt. II: med., appl. pharmacol. and therapeutics; pt. III: surg.; pt. IV: obstet. & gynæcol. Pt. I may normally be taken after 30 mos.' course, but after completing the full 36 mos.' clin. course a candidate must enter for all the pts. of the exam. which he has not already passed.

From the following institutions outside the U.K. and the Republic of Ireland, the Univ. of London accepts, subject to a yr.'s study in the U.K., certs. for the complete course of med. educn., incl. clin. med. and surg. preparatory to the MB BS degrees for external students: univs. of Dalhousie, McGill, Toronto, Adelaide (with infirmary), Melbourne (with Melb. and Alfred hosps.), Sydney (with infirmary and Prince Alfred hosp.), New Zealand (with Dunedin hosp.); Univ. of Ceylon; Univ. of Malta; following Indian and Pakistan med. colls.—Grant (Bombay), Seth Gordhandas Sunderdas (Bombay), Bengal (Calcutta), Lahore Univ. Med. Coll., Lucknow Univ., Madras Univ. Med. Coll.

*Higher degrees in med. & surg.* PhD in med. MD: consists of a thesis which may be submitted not less than 7 yrs. after obtaining full registration with the General Med. Council (4 yrs. in certain exceptional circumstances); a candidate must hold the MB BS degrees of the Univ. of London. MS: consists of a thesis which may be submitted not less than 5 calendar yrs. after candidate has obtained MB BS degrees of the Univ. of London.

**BDS degree:** the course for the BDS degree normally extends over 5½ yrs. The following exams. are taken: 1st exam. for med. degrees after 1 yr.; 2nd exam. in dent. surg. (gen. anat., physiol. and sp. anat.), 1 yr. after passing 1st MB; 3rd exam. in dent. surg.: pt. I (prosthetic dent.), 1 yr. after passing 2nd BDS; pt. II (med., surg., pathol. and bacteriol., pharmacol. and therapeutics), 28 mos. after passing 2nd BDS; pt. III (dent. surg. incl. sp. pathol., and orthodontics), 3½ yrs. after passing 2nd BDS.

**MDS degree** is open only to persons who have obtained BDS degree of this univ. as internal students. The exam. is in 2 pts., of which pt. I may be taken not less than 2 calendar yrs., and pt. II not less than 5 calendar yrs. after the candidate has obtained BDS degree. Pt. I of the

exam. consists of 2 written papers in dent. surg. and pathol., and clin., oral and practical exams. Pt. II consists of a thesis. A candidate may also be examined orally.

**BPharm degree:** the final exam. is in two pts. Pt. I is taken at the end of the 2nd yr.'s course, and includes pharmaceuticals, pharm. chem., pharmacognosy and pharmacol. Pt. II is taken at the end of the 3rd yr.'s course, and consists of any 2 of the following: pharm. chem., pharmacognosy, pharmacol., pharmaceuticals or pharm. engin. sci.

**MPharm degree:** a candidate must normally have obtained BPharm degree (revised regns.) of the univ. and pursue a course for not less than 2 yrs. (1 yr. for a candidate who obtained hons. at the BPharm exam. as internal student and offers for MPharm either of the subjs. taken at pt. II of BPharm). MPharm is conferred in following subjs.: pharm. chem., pharmaceuticals, pharmacol., pharmacognosy, or pharm. engin. sci.

**BVetMed degree (internal only):** the course for the BVetMed degree extends over 5 yrs. 1 term. The vet. pre-clin. exam. pt. I is taken after 3 terms' course at the Royal Vet. Coll. and the vet. pre-clin. exam. pt. II after a further 5 terms' course. The course for the final exam. for the BVetMed degree extends over 8 terms at the Royal Vet. Coll.

**MVetMed degree (internal only):** candidate must have obtained BVetMed of this univ. or BSc(VetSci) or some other degree of this univ. which is deemed suitable. Candidates with a degree in vet. med. or vet. sci. of another univ. may be required to pass a qualifying exam. All candidates must hold a qualif. which entitles to registration as vet. surgeon by Royal Coll. of Vet. Surgeons. Degree may be obtained either by exam. or thesis.

*Diplomas.* Academic postgrad. dipls. in animal health, bacteriol., clin. pathol. (also for external students), pub. health, trop. med. & hyg., 1 yr.; in appl. parasitol. and entomol., 8 mos.; in dietetics, 2 terms and 6 mos.' practical work; psychological med. (pt. I after not less than 6 mos.' course and pt. II after a course of study extending over 3 academic yrs.). For dipl. in nursing, see Extra-Mural Studies, below.

**Music.** The subjs. for the inter. exam. are harmony and counterpoint, form and analysis, and hist. of mus. For the BMus exam.: harmony and counterpoint, fugue including canonic writing, orchestration, hist. of music, 2 sp. subjs. selected by the candidate, oral exam. and practical test. For the DMus candidates must have obtained the BMus degree of the Univ. of London normally not less than 3 yrs. previously. There is a written and an oral exam. and a musical exercise.

**ENGINEERING.** The following degrees are conferred in the fac. of engin.: BSc(Eng); BSc(Eng) in chem. engin.; BSc(Eng) in metall.; BSc(Eng) in mining; MSc(Eng); PhD; DSc(Eng). The course of study for the final exam. for a bachelor's

degree extends over not less than 3 yrs.\* Before entry on a course of study for the final exam. for the BSc(Eng) degree or the BSc(Eng) degree in mining, internal and external candidates must pass at advanced level in pure maths. and appl. maths. (or maths. (pure and appl.)) and phys. and at ordinary level in chem. at a G.C.E. exam. or an approved equivalent; for the BSc(Eng) degree in chem. engin. and metall., chem. and phys. must be at advanced level but either pure or appl. maths., if taken as 2 subjs., may be at ordinary level. Candidates who have passed at advanced level in 3 of the 4 subjs. pure maths., appl. maths., phys. and chem., may be allowed to enter on the course and to complete the entrance qualifs. by passing at the appropriate level in the 4th subj. before taking any part of the final exam.

The gen. internal, sp. and external final exams. in *engin.* and *metall.* and the external final exam. in *mining* are divided into 3 pts. The gen. internal and external final exams. in *chem. engin.* are divided into 2 pts., pt. I being divided into 2 sections. There are two sp. exams. in *chem. engin.*, one divided into 2 pts., the other into 3 pts. There is a sp. exam. in *mining*. The sp. exams. are confined to internal students of certain schs. of the univ.

Internal candidates for the MSc(Eng) degree are required to have graduated as internal students in the Univ. of Lond. at least 1 yr. (or in the case of other grads. at least 2 yrs.) before entry to the MSc(Eng) exam., but grads. of other univs. are debarred by statute from proceeding direct to higher degrees as external students. The exam. is by thesis or dissertation and there is an oral exam. The examiners may also require a written exam.

Internal and external candidates for the DSc(Eng) degree must have obtained in this univ. the BSc(Eng) degree, MSc(Eng) degree or PhD degree in the fac. of *engin.* The degree is awarded only for publ. work of a high standard such as would give the candidate an authoritative standing in his particular field of res.

**ECONOMICS. First degrees.** The following are awarded: BSc(Econ). Normally 3 yrs. Prelim. qualifs. : candidates must have passed an inter., prelim. or first exam. or possess a G.C.E. with 3 subjs. at advanced level. The final exam. is in 2 pts. and candidates must normally pass pt. I before entering for pt. II. Pt. I covers 6 compulsory papers (principles of econ., appl. econ., pol. hist., econ. hist., elements of govt., hist. of pol. thought) and 2 alternative subjs. chosen from a list of 13. Pt. II consists of 5 papers on a sp. subj. chosen from a list of 15.

Under revised regns. for internal students registering in and after Oct. 1961, pt. I covers 3 compulsory papers (econ., British govt., hist. (econ. hist. or pol. hist.)) and 2 alternative subjs. chosen from a list of 15. Pt. II consists of 8 papers as prescribed for each of 14 sp. subjs.

BSc(Soc). Normally 3 yrs. Prelim. qualifs. : Candidates must have passed an inter., prelim. or 1st exam. or possess a G.C.E. with 3 subjs. at advanced level. A candidate who has obtained a BA hons. degree in sociol., or BSc(Econ) with sp. subj. sociol. or soc. anthropol., will not be admitted. The final exam. consists of 9 papers from 2 groups. Candidates must also pass in econ. as a subsidiary subj.

BSc(EstMan). Normally 3 yrs. 1st exam. in 4 subjs. No exemptions granted. Final exam. consists of 11 papers chosen from either the urban group or the rural group of subjs. Course work must be submitted for both exams.

**Higher degrees.** The following are awarded: MSc(Econ), MSc(EstMan), PhD, DSc(Econ). Admission to master's degrees is normally 2 yrs. after passing the appropriate 1st degree. Candidates who have obtained the BSc(Econ) with 1st or 2nd class (upper div.) hons. as internal students may be admitted after 1 yr. They will be required to take the MSc(Econ) by 4 written papers and, at the discretion of the examiners, an oral exam. For the MSc(Econ) candidates are examined in 1 subj. to be selected from a lengthy list (4 papers or a dissertation and 2 papers). The MSc(EstMan) exam. consists of 2 papers on a selected, approved general subj. and a dissertation on an approved sp. subj.

DSc(Econ). Candidates must hold the BSc(Econ) or MSc(Econ) or BSc(Soc) or BSc(EstMan) or BCom or MCom or PhD in the fac. of econ. and must submit publ. work.

**Diplomas.** Academic dipl. in pub. admin., normally 2 yrs.; dipl. in soc. studies (external), normally 2 yrs.

**SCHEMES OF SPECIAL RELATION WITH UNIVERSITY COLLEGES OVERSEAS.** These schemes originated in proposals made by the Commission on Higher Education in the Colonies which was apptd. by the secretary of state in 1943 under the chairmanship of Mr. Justice, later Lord, Asquith. The report of the commission (cmd. 6647 of 1945) explains the background to the proposals and the broad outline of the schemes. Their purpose is to enable univ. colls., during their transition to full univ. status, to enter their students for degrees of the Univ. of London which are awarded upon the results of special exams. The syllabuses of these exams. are adjusted to the geographical, linguistic and educnl. conditions of the territory, but represent no relaxation in the standards of the univ.

Certain conditions are laid down limiting the admission of univ. colls. to these schemes. A coll. must satisfy the univ. that its staff, resources, equipment and machinery of government are appropriate to an instn. aspiring to univ. status, and in particular that it possesses an academic body charged with the duty of formulating academic policy. This policy must include the encouragement of the pursuit of a regular and liberal course of educn. and of a corporate life

\* External students are required to pursue the course at an institution recognized for the purpose unless excused by reason of approved trg. and experience elsewhere.

among its students, the promotion of res. on the part of staff and postgrad. students, and willingness to accept the responsibilities of intellectual leadership in the community it serves. The conditions for the admission of students must also be considered appropriate.

The main objects of these schemes of 'special relation' may be summarized as follows: (1) the establ. of direct and easy co-operation between the academic boards of the overseas colls. and the univ.; (2) the institution of a regular system of consultation between the authorities of the univ. and the staffs of the colls. on questions of syllabus and exam. requirements; (3) the promotion of personal contact between the examiners appointed by the univ. and the teachers in the colls.; (4) the participation by members of the staff of the colls. in the actual work of examining their own students; (5) the interchange of visits and the giving of assistance and advice by the univ. on such matters as the colls. overseas may desire.

There are at present schemes with: the Univ. Coll. of the West Indies; Univ. Coll., Ibadan, Nigeria; the Univ. Coll. of Ghana; Makerere Coll., the Univ. Coll. of East Africa; the Univ. Coll. of Rhodesia and Nyasaland.

Each set of exam. regns. has been approved by the senate of the univ. on the initiative of, or in consultation with, the individual coll. concerned. All exams. held at a coll. are conducted in accordance with the regns. approved for that coll.

**POSTGRADUATE STUDY AND RESEARCH.** In most schs. of the univ. sp. arrangements are made for res. students, and the facilities offered are not restricted to internal grads. of the univ. External grads. and grads. of other approved univs. are allowed, under certain conditions, to enter as internal students for the degree of bachelor or of PhD in the several facs., and for the degree of MTh, MA, LL.M., MSc or MSc(Eng). Every candidate must submit evidence of graduation, etc., together with a cert. from the authorities of the sch. or institution of the univ. at which he proposes to study, stating that the student is, in their opinion, a fit person to undertake the proposed course of study and res., and that they are willing to supervise his work. An overseas student may himself submit an applicn. on the prescribed form, and the univ. will, if so requested, advise on the selection of the sch. or institution at which, and teacher under whom, he should study. Applicn. for such advice should be addressed to the academic registrar of the univ. Overseas students should apply for registration before coming to London, and their applicns. should reach the univ. if possible 12 mos. before the commencement of their course, and at the latest by March 1, to enable them, should their applicns. be successful, to enter upon their course of study in the following Oct., i.e. at the beginning of the session. Students whose applicns. are approved are required to pursue a course extending over at least 2 yrs.

An internal student who is a candidate for the

PhD degree must have graduated in the univ. or have been registered as a candidate for the degree after passing approved exams. for a degree in another univ. An internal student is further required to pursue a course of study of not less than 2 yrs.' full-time, or 4 yrs.' pt.-time, training in res. and res. methods. Any grad. of the univ. may become a candidate for the PhD degree in his first degree fac. as an external student on receiving the approval of the council for external students. It should be noted that only grads. of the Univ. of London may register as external students for a master's or PhD degree.

Particulars of UNDERGRADUATE SCHOLARSHIPS, etc., awarded on the results of exams. held by the London Intercollegiate Scholps. Bd., may be obtained from the sec. of the bd., R. B. P. Wallace, LLB MA, Univ. of London, Senate House, W.C.1.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 825.

**FEEs.** *Registration* (non-recurrent and incl. matric.)—internal: normal 1st degree 3 gs., postgrad. 6 gs.; external: normal degree 5 gs., postgrad. 2 gs., advanced students 5 gs. *Exam. fees* (no graduation fees)—arts and sci., from £18 to £20; med., vet. med., and dent., from £33 to £47. Details of *annual tuition fees* are given in the sections relating to the schs., below.

**BOTANICAL SUPPLY UNIT,** Elm Lodge, Englefield Green, Surrey. The univ. botanical supply unit was establ. in 1950 to provide schs. and instns. of the univ. with bot. material. The grounds now cover an area of about 13 acres. The unit is able to produce a large variety of material in bulk for class purposes, and numerous specimen plants can be lent to schs. and instns. for class demonstration. It is also able to supply some types of material for res. Curator: J. I. H. Rees, BSc.

**COMPUTER UNIT,** 44 Gordon Square, W.C.1. The Univ. of London computer unit is equipped with a Ferranti Mark II Mercury computer. Dir.: R. A. Buckingham, PhD.

**ADVISORY SERVICE FOR EXTERNAL STUDENTS.** Any external student who is duly registered for an external degree or dipl. and experiences any difficulty in connexion with the appropriate studies may apply to the external registrar for guidance. Such guidance may take the form of detailed schemes of study or personal discussion with an adviser.

**ADVISER TO OVERSEAS STUDENTS.** Students from outside the British Isles may obtain general information, advice on personal problems and in emergencies, from the Univ. of London Adviser to Overseas Students, Univ. of London Union, Malet St., W.C.1. Tel.: Langham 5035.

The **COMMERCE DEGREE BUREAU** exists to help in their studies external (especially extra-London) students proposing to take the BSc(Econ) degree (for which postal courses of study may be pro-

vided), to provide a reference and lending library for students and generally to promote the value and usefulness of the degrees. The bureau is administered by a senate cttee. Prospectus and enquiry forms obtainable on applicn. to the sec., Commerce Degree Bureau, Senate House, W.C.1. Tel.: Museum 2843.

**MILITARY EDUCATION.** War studies is one of the optional subjs. for the final BA (general) for internal students only.

The Univ. of London contingent of the O.T.C., authorized by the Army Council in 1909, is open to internal students, both men and women. Its main purpose is to train students for commissioned service in the army. Information from the adjutant, Univ. of London contingent, O.T.C., 16 Chenies St., W.C.1 (tel.: Museum 1015).

**AIR SQUADRON.** The Univ. of London air squadron was founded in 1935 by the Air Ministry with the assistance of the univ. authorities. Its main object is to promote a serious interest in flying and its allied subjs. Applicns. for membership should be addressed to the sec., U. of L. Air Squadron, 48 Princes Gdns., S.W.7 (tel.: Kensington 2433).

The UNIVERSITY APPOINTMENTS BOARD exists to obtain appts. for grads. Address: 49 Gordon Square, W.C.1 (tel.: Euston 7489).

**RESIDENCE.** (For wardens, see 'Admin. and other Staff', p. 962.) Halls of residence provided by the senate: Canterbury Hall, Cartwright Gardens, W.C.1 (tel.: Euston 5526), for 218 women students (fees, £129:15s. and £140:5s. per session of 30 weeks); Connaught Hall, 15-20 Torrington Sq., W.C.1 (tel.: Museum 6674), for 81 men students (fees £120 to £135 per session of 30 weeks), and Nutford House, Brown St., W.1 (tel.: Ambassador 4431), for 190 women students (fees, £115 and £130 per session of 30 weeks). Other hall of residence recognized by the senate: College Hall, Malet St., W.C.1, for 220 women students (fees, £132:6s. and £148:1s. per session).

Residence is also provided at or in connexion with the Inst. of Educn., Imperial Coll., King's Coll., London Sch. of Econ., Queen Mary Coll., Univ. Coll. and Wye Coll.; Guy's, London, Middlesex, St. Bartholomew's, St. Mary's, St. Thomas's, Univ. Coll. Hosp. med. schs. and Westminster Med. Sch.; the theol. colls. and the women's colls. (see coll. entries). London House, Guilford St., W.C.1, provides accomm. for 275 Commonwealth men students, including some from the U.K.

**LODGINGS BUREAU,** Univ. of London Union, Malet St., W.C.1 (tel.: Museum 2818). Enquiries to be addressed to the lodgings officer.

**UNIVERSITY UNION** (founded 1921), Malet St., W.C.1 (tel.: Langham 9551). Most of the schs. and colls. of the univ. also have their own unions. The univ. athletic ground is at Motspur Park, Surrey (tel.: Malden 0661), and the univ. boat-

house at Hartington Rd., Chiswick (tel.: Chiswick 5562).

**EXTRA-MURAL STUDIES.** The area of operation of the council for extra-mural studies includes the counties of London, Middlesex and Surrey, S.-W. Essex and S. Hertfordshire, and the county boroughs of Croydon, E. Ham, W. Ham and Southend-on-Sea. The work is divided into 4 sections and the chief admin. officers of the dept. are: dir. of dept.—A. McPhee, MA BCom *Edin.*, PhD; academic adviser for tutorial classes—H. C. Shearman, MA *Oxon.*; dep. dir. (extension)—C. P. Thomas, BA *Wales*; sec. for tutorial classes—F. G. Brook, BSc(Econ) PhD; hd. of vocational dipls. section—R. A. S. Knowles; hd. of sp. courses section—Winifred Bamforth, MA.

(a) *Univ. Extension Courses* have been carried on since 1902 (prior to that, 1876-1902, by the London Soc. for the Extension of Univ. Teaching). The sessl. and terminal courses provided cover various fields of knowledge—archæol., hist., lit., econ., sociol., bibl. studies, internat. affairs, music, visual arts, geog., phys. and biol. sci., and allied subjs. Short courses of a pioneer or illustrative kind are also arranged. An exam. is held, where reqd., at the end of a sessl. course. Continuous study is encouraged by the *dipls. in the humanities* (hist., lit., econ., sociol., hist. of art, biblical and relig. studies, internat. affairs, visual arts, archæol., hist. of music) awarded to students who complete approved courses of study, usually covering 4 yrs., and pass annual exams. and by 5-yr. course for the *cert. in transport studies*. Provision is made, where required, for post-dipl. study. Vacation courses and study tours at home and abroad are arranged. More than 30 week-end courses are held each yr. Work is carried on mainly by pt.-time lectrs. There is a staff lectr. in phys. scis.: H. G. Frost, BSc.

(b) *Tutorial Classes* have been provided since 1909 in close co-operation with the W.E.A. The classes extend over 3 yrs., usually with a max. membership of 24 students. Sessl. classes and advanced classes lasting one session are also provided. Summer schs. and week-end courses are held each yr. There are no exams. but all students undertake to do written work arranged with the tutor to suit individual needs. The subjs. include archæol., art, econ., hist., internat. relations, lit., music, philos., pol. and psychol. Work is carried on partly by pt.-time tutors but also by staff tutors: G. Bush, MA DMus *Oxon.*; D. Butt, BA *Oxon.*; J. P. Carruthers, MA *Glas.*; J. X. W. P. Corcoran, MA PhD *Manc.*; E. M. Eppel, MA EdB *Glas.*; H. Fyrrh, BSc(Econ); W. J. A. Harris, BA *Wales*, MSc(Econ); Mrs. Joy MacAskill, MA BLitt DipEd *Oxon.*; Elizabeth Monkhouse, BA *Oxon.*, DUPoitiers; L. Speak, MA *Leeds*; Lois Spencer, BA *Oxon.*, PhD; L. G. Stone, BSc(Econ); C. G. Stuttard, MA *Camb.*; J. R. Williams, BA *Leeds*.

(c) *Vocational Dipls. and Certs.* The council for extra-mural studies also administers the

following dipls. and certs. which are, broadly speaking, vocational in purpose: dipls. in dramatic art, nursing, pub. admin., theol. and sister-tutor's dipl.; certs. of proficiency in diction & drama, Engl. for foreign students\*, mod. foreign langs., natural hist., and religious knowledge.

Exams. are held once a yr. in London and, in certain cases, also in the provinces and overseas. An annual 4-wk. residential summer course in Engl. for foreign students is held, designed to widen the student's knowledge not only of contemporary Engl. lang. and lit. but of Engl. instns. and art, by means of lectures, classes and visits.

(d) An annual residential summer school, lasting 6 wks., is held for American, Commonwealth and European students (grad. or sr. undergrad.) as part of a programme arranged jtly. with other univs. The jt. programme usually includes courses in lit., hist., art.

(Further information and copies of regns. may be obtained from the dir., dept. of extra-mural studies, Univ. of London, Senate House, W.C.1.)

**SCHOOL EXAMINATIONS.** The univ. conducts exams. for the General Cert. of Educn. for candidates in approved schs., and for private candidates.

The exam. is held at the ordinary and the advanced levels in June and in Jan., and scholarship papers are set in conjunction with the advanced level June exam. There are no group requirements, and candidates may offer one or more subjs. up to certain maxima.

The univ. is prepared to hold the exam. at schs. and for private candidates overseas, provided that from schs. in other parts of the Commonwealth, the applicn. is received through the govt.; or in

the case of schs. in foreign countries, through H.M. representative.

Regns. (price 1s. 6d.) are obtainable from the Univ. of London publicns. dept., 1 Malet St., W.C.1.

**OFFICIAL PUBLICATIONS.** The following are obtainable from the Univ. of London publicns. dept., 1 Malet St., W.C.1:

*Calendar*, 21s. incl. postage. *Gazette*, 9 issues per yr.; annual sub., 10s., single no., 1s. 3d., incl. postage. *Annual Report by the Principal. Univ. of London Act, 1926, and Statutes*, 3s. 6d. *Exam. Papers*, publ. as soon as possible after the several exams.; prices vary from 6d. to 5s.

**Regulations.** The following may be obtained on applicn. to the central office of the univ.: regns. for internal and for external students (publd. separately) for degrees in arts, sci., agric., etc.; for the various dipls. and certs. in sp. subjs.; for PhD degree; scholps. pamphlet; pamphlets of *General Information* for internal students and for external students.

**ATHLONE PRESS**, 2 Gower St., W.C.1 (tel.: Langham 9535-6). The press was establd. in 1950, its functions being to publish univ. lectures, the work of grads. of the univ. and of teachers of the univ. or of its schs. and central institutions, and such other works as the bd. of management may accept.

**UNIVERSITY BOOKSHOP.** In conjunction with Miss Una J. Dillon, the univ. has formed a company, trading under the name of Dillon's University Bookshop Ltd., to operate a bookshop at 1 Malet St., W.C.1. The bookshop is designed to meet in particular the needs of students and others who are sitting for the exams. of the univ.

## THE YEAR 1959

**NEW CHAIRS.** *Imperial Coll.*: biochem. *London Sch. of Econ.*: econ. with sp. ref. to underdeveloped countries and econ. devel. *Univ. Coll.*: Engl. law; Engl. lang. *Westfield Coll.*: bot.; chem.; maths.; phys.; zool. *Charing Cross Hosp. Med. Sch.*: surg. *King's Coll. Hosp. Med. Sch.*: dental prosth. *Middx. Hosp. Med. Sch.*: biol. *St. Mary's Hosp. Med. Sch.*: immunol.

**HONORARY DEGREES.** *DLit*—Prof. J. Dover Wilson, formerly prof. of rhetoric and Engl. lit., Edin. *MA*—J. H. James, formerly maintenance officer of the univ. *LLD*—F.M. the Rt. Hon. Earl Alexander of Tunis; Rt. Hon. W. S. Morrison, Speaker of House of Commons; I. Wolfson, founder of Isaac Wolfson Foundation. *DSc*—Prof. Sir Hans Krebs, Whitley prof. of biochem., Oxford. *DSc(Econ)*—Sir Alexander Carr-Saunders, former dir. of London Sch. of Econ. & Pol. Sci. and chairman of Inter-Univ. Council for Higher Educn. Overseas.

## Statistics

**STUDENT NUMBERS.** Registered internal students for session 1958-59: 25,661 (19,476 m., 6185 w.; 20,964 full-time, 4697 pt.-time students). Included in this total are 5119 postgrad. students.

Students from other countries, 3829. (Countries from which largest numbers came: India, 708; Nigeria, 320; Poland, 219; Pakistan, 210; U.S.A., 170; Canada, 146; Australia, 110; Ghana, 106; South Africa, 103).

Registered external students for session 1958-1959: 24,479. Prelim. exams.: 6759. Degree and dipl. exams.: tech. colls., 4366; other instns., 1341; correspondence colls., 3178; private study, 1440; students resident abroad, 3555. Colonial univ. colls. (inter. and final): 2168. Higher degrees (master's and PhDs), 1672.

Number of full-time students in schs. of the univ. and senate insts. (based on U.G.C. returns) § in 1958-59: 20,993 (15,036 m., 5957 w.): of

\* The Univ. of Cambridge Local Exams. Syndicate also awards a cert. of proficiency in Engl., see p. 888.

§ University Grants Committee: *Returns from Universities and University Colleges in Receipt of Treasury Grant, Academic Year 1958-59*. Cmnd. 1166 (H.M.S.O., 1960).

these, 5116 were 1st-yr. admissions (3563 m., 1553 w.).

INTERNAL DEGREES AWARDED (1958-59). Arts : *first degrees*, 803 ; *master's degrees*, 85 ; *PhD*, 84. Econ. : 393, 37, 26. Engin. : 589, 29, 58. Laws : 169, 20, 6. Med. : 787, 8, 35. Music : 9, 0, 1. Sci. : 1102, 161, 372. Theol. : 24, 0, 2.

EXTERNAL DEGREES AWARDED (1958-59). Arts : *first degrees*, 336 ; *master's degrees*, 15 ; *PhD*, 15. Econ. : 200, 7, 6. Engin. : 212, 4, 11. Laws :

110, 5, 0. Med. : 31, 0, 2. Music : 8, 0, 0. Sci. : 401, 26, 53. Theol. : 86, 1, 1.

HIGHER DOCTORATES AWARDED (1958-59). Arts, 1 ; engin., 3 ; med., 23 ; sci., 27.

STUDENT NUMBERS (October 1959). *See under* Schools and Institutions, *below*.



# UNIVERSITY INSTITUTES

[Information compiled as at 21/7/60]

## COURTAULD INSTITUTE OF ART

Founded 1932

*Postal Address* : 20 Portman Square, London, W.1, England

*Cables and Telegrams* : Courtauld Institute, 20 Portman Square, London, W.1

*Telephone* : Welbeck 1388-9

CHAIRMAN OF MANAGEMENT COMMITTEE—Professor LORD ROBBINS, CB, MA *Oxon.*, Hon. DLitt *Durh. & Exe.*, Hon. LHD *Col.*, Hon. LLD *Camb. & Stras.*, Hon. Dr T.U. *Lisbon* BSc(Econ), FBA

DIRECTOR—Professor Sir ANTHONY BLUNT, KCVO, PhD MA *Camb.*, FBA

DEPUTY DIRECTOR—Professor J. WILDE, CBE, DPhil *Vienna*, FBA

REGISTRAR—C. CLARE

LIBRARIAN—.....

## TEACHING STAFF

### Art, History of

The Director

The Deputy Dir.

Whinney, Margaret, DLit, FSA

Zarnecki, G., MA *Cracow*, PhD, FSA

Hohler, C., MA *Oxon.*, FSA

Kitson, M., MA *Camb.*

Prof.

Prof.

Reader

Reader

Lectr.

Lectr.

Bowness, A., MA *Camb.*

Shearman, J., PhD

Martindale, A., MA *Oxon.*

Asst. Lectr

Asst. Lectr

Asst. Lectr

### Technology of Art, History of

.....

Rees-Jones, S., MSc, FSA

Prof

Sr. Lectr

## ADMINISTRATIVE AND OTHER STAFF

Conway Librarian : P. Kidson, PhD ; Witt

Librarian : P. Murray, PhD, FSA ; Lantern

Slide Librarian : Joan Sumner-Smith, BA ;

Books : Lillian Gurry, MA ; Gallery Curator :

P. O. Troutman, BA.

## GENERAL INFORMATION

Opened to students in 1933, as the result of a gift of £100,000 for bldgs. and partial endowment by Mr. Samuel Courtauld, and of gifts by Sir Joseph Duveen and Sir Herbert Cook. Other benefactions incl. a gift by the late Alderman J. G.

Graves, the bequest of his estate by the late Mr. Norman Wilkinson of Four Oaks (with which a scientific dept. and lab. have been establd.) and the Witt collection of drawings and Witt library of reproductions bequeathed by Sir Robert Witt.

The present headquarters of the inst., one of the finest examples of the work of the brothers Adam, is also a gift from Mr. Courtauld, and is open to visitors during vacation and at certain other times by appt. When the headquarters of the inst. are moved to Gordon Sq. in Bloomsbury, 20 Portman Sq. will remain the official residence of the dir. and a centre for spec. studies.

The galleries of the inst., situated over the Warburg Inst. in Gordon Square, are open to the public. They incl. important collections of paintings and drawings bequeathed by Lord Lee of Fareham, Samuel Courtauld, Roger Fry and Sir Robert Witt.

The inst. is a univ. dept. concerned with teaching and res. in the hist. of art (European).

ADMISSION. See p. 965 and Appendix II.

COURSES leading to the following degrees of the Univ. of London in the hist. of art are provided :

BA hons. (3 yrs.), MA (2 yrs. from BA), PhD (2 yrs.). A postgrad. dipl. (2 yrs.) in the hist. of art is also awarded. Res. students are also accepted, and a number of lectures are given to which the general public are admitted.

FEES. For full-time undergrad. and dipl., £45 p.a.; full-time postgrad., £25 p.a. Fees for pt.-time students or for public lectures on applicn. to the registrar.

LIBRARY. 24,654 vols. and 19,884 pamphlets, slide collection and Conway library of photographs. The Witt Library of reproductions is housed in the inst. at 20 Portman Sq.

PUBLICATIONS. *The Bibliog. of British Art*; *Prospectus*; in assocn. with the Warburg Inst., *Journal of the Warburg and Courtauld Insts.*

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	49	15
Women . . .	56	51
Total . . .	105	66

All students are in fac. of arts.

*Included in the figures above are :—*

Postgraduate students, 76.

New admissions, 92.

Students from other countries, 52. (Countries from which largest numbers came : U.S.A., 28 ; Canada, 8 ; South Africa, 3).

DEGREES AWARDED (by Univ. of London) (1958-59). BA hons. hist. of art, 4 ; MA, 1 ; PhD, 2.

DIPLOMAS AWARDED (by Univ. of London) (1958-59). Postgrad. academic dipl. in hist. of art, 3.

CERTIFICATES AWARDED (1958-59). Inst. cert. in hist. of art, 6.

[Information compiled as at 1/7/60]

## INSTITUTE OF ADVANCED LEGAL STUDIES

Founded 1948

*Postal Address* : 25 Russell Square, London, W.C.1, England

*Cables and Telegrams* : Institute of Advanced Legal Studies, 25 Russell Square, London, W.C.1

*Telephone* : Langham 4868

CHAIRMAN OF COMMITTEE OF MANAGEMENT—Professor Sir DAVID HUGHES PARRY, QC, MA *Camb.*, Hon. DCL *McG.*, Hon. LLD *Birm.*, *Br.Col.*, *Camb.*, *Hull*, *New Br.*, *Wales & W.Ont.*

DIRECTOR—Professor J. N. D. ANDERSON, OBE, MA LLD *Camb.*

SECRETARY AND LIBRARIAN—K. H. DRAKE, MA *Camb.*

## GENERAL INFORMATION

The inst. was establd. as pt. of the post-war expansion of the Univ. of London and occupies premises near the Senate House. Its aim is to act as a focal point for legal res., to provide seminar classes for students reading for higher degrees in law at a sch. of the univ., and to build up a good working res. library in law. The inst. has collated particulars of legal res. undertaken in Britain and the Commonwealth, and is in a position to pass this information on to res. workers and other enquirers. An annual list of topics in progress is prepared.

Teaching at the inst. is undertaken by members of the law teaching staffs of colls. and schs. in the univ. with a fac. of laws, in addn. to the dir. of the inst.

**LIBRARY.** The library now consists of over 57,000 items. The inst. has acquired practically all U.K. law reports and statutes and basic works, particularly those of use for seminar purposes. Through continued purchases made possible by the generous gift from the Nuffield Foundation, the Nuffield library of Commonwealth law is nearing the stage when it can be regarded as comprehensive. The U.S. holdings continue to increase. Over 100 U.S. law reviews are received regularly, about two-thirds of which are not known to be taken elsewhere in Britain. Earlier vols. are being acquired whenever possible.

**ADMISSION.** Admission to the inst. may be granted, without fee, to teachers of law in univs. and univ. colls., both in the U.K. and overseas, and to teachers in other law schs. who are qualified to become members of the Soc. of Public Teachers of Law; to postgrad. students engaged on approved res., and to other univ. students attending a class or seminar at the inst.; and to other

persons by permission of the dir. Persons who already hold a res. degree or have publ. the results of their researches, or have had considerable trg. or practical experience in the law, may be admitted to the use of the inst., either on payment of a fee, or without fee, if duly invited and willing to assist in the work of a seminar held at the inst.

Postgrad. students, whether reading for a degree or dipl. or not, must register at a coll. or sch. of the univ. with a fac. of laws (i.e. at King's Coll., Univ. Coll., L.S.E. or the Sch. of Oriental and African Studies). When so registered, they will become eligible, on the recommendation of their teachers, for admission to the inst.

**PUBLICATIONS.** *Annual Report* presented to the senate; annual and consolidated lists of *Legal Research Topics* in British and Commonwealth univs.; *Univ. of London Legal Series*; library publicns.: No. 1, *A Survey of Legal Periodicals: Union Catalogue of Holdings in British Libraries* (2nd edn., 1957, 17s. 6d.); No. 2, *Union List of Commonwealth Law Literature in Libraries in Oxford, Cambridge and London* (1952, 0/p.); No. 3, *Union List of United States Law Literature in Libraries in Oxford, Cambridge and London* (1954, 12s. 6d.); No. 4, *Union List of Air Law Literature in Libraries in Oxford, Cambridge and London* (1956, 12s. 6d.). Jointly with the U.K. National Cttee. of Comparative Law: *A Bibliographical Guide to the Law of the U.K., the Channel Islands and the Isle of Man* (1956, 30s.; interleaved copies, 36s.). *A Manual of Legal Citations*. Pt. I: *The British Isles* (1959, 21s.) (Pt. II: *The Commonwealth*, in preparation). In co-operation with the American Assocn. of Law Libraries: *Index to Foreign Legal Periodicals* (1960, 3 quarterly issues with annual cumulation, annual sub. £9).

## THE YEAR 1959

### Statistics

Students admitted: 218 (all postgraduate).

Of these, 123 came from other countries. (Countries from which largest numbers came:

India, 44; U.S.A., 18; Canada, 9; Israel, 9).

Other persons using the inst. during the year, 139.

[Information compiled as at 17.8.60]

## INSTITUTE OF ARCHÆOLOGY

Founded 1934

Postal Address: 31-34 Gordon Square, London, W.C.1, England

Telephone: Euston 6052

CHAIRMAN OF MANAGEMENT COMMITTEE—S. W. WOOLDRIDGE, CBE, DSc, FRS

DIRECTOR—Professor W. F. GRIMES, CBE, MA Wales, FSA

SECRETARY—E. PYDDOKE, FSA

## TEACHING STAFF

[†=Part-Time]

**Archæology of Roman Provinces**Frere, S. S., MA *Camb.*, FSA

Reader

**Prehistoric European Archæology**Evans, J. D., MA PhD *Camb.*, FSA

Prof.

**Environmental Archæology**Zeuner, F. E., PhD *Bres.*, DSc, FSA

Prof.

Cornwall, I. W., PhD

Lectr.

Wachter, J. d'A., PhD *Camb.*, FSA

Lectr.

**Western Asiatic Archæology**Mallowan, M. E. L., CBE, MA *Oxon.*,

DLit, FBA, FSA

†Prof.

Maxwell-Hyslop, Rachel, FSA

†Lectr.

Kenyon, Kathleen, CBE, MA *Oxon.*, DLit,

FSA, FBA

(Palestinian A.) Lectr.

**Indian Archæology**Codrington, K. de B., MA *Camb.*

†Prof.

## GENERAL INFORMATION

Equipment provided for study of archæol. of western Europe (incl. British Isles) and nr. east. Teaching collections, incl. notably Petrie Palestinian collection, available to students.

**LIBRARY.** 5000 books, some 2500 pamphlets and 5000 vols. of periodicals on British, European and Asiatic archæol. available to students and inst. members.

**FIRST DEGREES.** No courses provided for first degrees.

**HIGHER DEGREES** (of Univ. of London). MA and PhD in archæol. subjs.

**DIPLOMAS** (of Univ. of London). Normally 2

yrs.: academic dipls. in European, Indian, prehistoric, Roman archæol. and (normally 3 yrs.) western Asiatic archæol.

**OTHER COURSES.** Tuition is also provided in archæol. technique, incl. excavation methods, repair and preservation of archæol. objects, draftsman-ship, surveying and photography. Courses of lectures, open both to students and to the general public, are given in a wide range of archæol. subjs.

**PUBLICATIONS.** *Handbook* (free); *Bulletin* (10s.); *Occasional Papers*.

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>	<i>Occasional</i>
Men . . .	26	6	10
Women . .	22	11	11
* Total . .	48	17	21

*Included in the figures above are :—*

Postgraduate students, 38.

New admissions (dipl. and higher degree), 21.

Students from other countries, 24. (Countries from which largest numbers came : U.S.A., 3 ; Greece, 3).

**HIGHER DEGREES AWARDED** (by Univ. of London) (1958-59). MA, 1 ; PhD, 1.

**DIPLOMAS AWARDED** (by Univ. of London) (1958-59). 4.

[Information compiled as at 18/8/60]

## INSTITUTE OF CLASSICAL STUDIES

Founded 1953

*Postal Address :* 31-34 Gordon Square, London. W.C.1, England

*Telephones :* Office, Euston 7696 ; Library, Euston 7697

**CHAIRMAN OF MANAGEMENT COMMITTEE**—P. S. NOBLE, MA *Aberd. & Camb.*, Hon. LLD *Aberd.*

**DIRECTOR**—Professor E. G. TURNER, MA *Oxon.*, FBA

SECRETARY—ALICIA M. TOTOLOS, BA *Syd.*

LIBRARIAN—JOYCE E. SOUTHAN, BA *Manc.*

## GENERAL INFORMATION

The objects of the inst. are to promote the advancement of the study of the classics; provide opportunities for contacts between scholars in the classical field, both within the univ. and from other centres of learning at home and abroad; and to arrange facilities for advanced study and res. and for the trg. of postgrad. students in classics and cognate subjects.

The Hellenic and Roman socs. are associated with the inst. Both are housed in the same premises, and their libraries are complementary to each other. The combined library numbers 36,000 vols. (including over 200 current periodicals) and forms a first-class tool of classical res.

Free admission is granted to teachers and postgrad. students of London Univ. and of univs. and

univ. colls. in the U.K. and Commonwealth, and to sr. scholars from elsewhere by invitation. For teachers and postgrad. students from outside the Commonwealth the fees are 10s. for 3 mos., £1 for 6 mos., £2 a yr. The inst. has no students except those registered in other schs. of the univ., and teaching at the seminars is done by teachers in those schs.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 825.

PUBLICATIONS. *Prospectus* (free); *Annual Report*; *Bulletin* (annual, July, 10s.) incl. a register of advanced res. in progress; *Bulletin Supplements* (various).

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

Men . . .	25
Women . . .	17
Total . . .	42

All students are postgraduate and in fac. of arts.

*Included in the figures above are :—*

New admissions, 22.

Students from other countries, 10.

[Information compiled as at 18/8/60]

## INSTITUTE OF COMMONWEALTH STUDIES

Founded 1949

Postal Address: 27 Russell Square, London, W.C.1, England

Telephone: Langham 5876

CHAIRMAN OF COMMITTEE OF MANAGEMENT—Professor DAME LILLIAN M. PENSON, DBE, Hon. LL.D. *Camb.*, *Leeds*, *McG.*, *St.And.* & *S'ton.*, Hon. DLit *Belf.*, Hon. DLitt *Sheff.* & *W.Ont.*, Hon. DCL *Oxon.*, PhD

DIRECTOR—Professor K. E. ROBINSON, MA *Oxon.*, FRHistS

SECRETARY—T. E. SMITH, OBE, MA *Camb.*

LIBRARIAN—Mrs. V. BLOOMFIELD, BA *Lond.*

RESEARCH FELLOWS—D. AUSTIN, BA *Lond.*; MARY BULL, BA *Syd.*; S. R. MEHROTRA, MA *Alld.*; T. H. SILCOCK, MA DPhil *Oxon.*

## GENERAL INFORMATION

The inst. was establd. in 1949 to promote advanced study of the Commonwealth. Its field of interest is primarily, but not exclusively, that of the soc. scis. It encourages collaboration at postgrad. level between workers who are employing different techniques of res. in the study of Commonwealth problems. It provides a meeting-place both for postgrad. students and members of the academic staffs of univs. and res. institutions in the U.K. and overseas countries of the Commonwealth. Seminars are held for advanced students during the univ. terms. Admission to them is on recommendation by supervisors of studies or at the discretion of the dir. Meetings on sp. topics are arranged during univ. terms for members of staff and other specially invited persons.

**LIBRARY.** Approx. 25,000 vols. and papers. The library does not set out to compete with the great collections but selects material of sp. value for res. and postgrad. teaching. It places particular emphasis upon primary material relating to govt., econ. and soc. devel., race relns. and demography, and with this object it acquires official publicns., stats., guides to archives, etc., of the U.K. and other Commonwealth countries. It is also acquiring a good selection of secondary

works on the devel. of the Commonwealth during the past century. It subscribes to periodicals of significance for the study of the Commonwealth.

A strong bibliog. section is being built up by the acquisition of bibliogs., indexes to periodical lit., guides and indexes to official publicns. and parliamentary papers of the U.K. and Commonwealth countries, and similar aids to res. A bibliog. of bibliogs. in the library and a register of deposited theses in London and other U.K. univs. are maintained.

**ADMISSION.** The following persons may be admitted to the inst.: grad. res. workers and members of the academic and sr. admin. staff of the Univ. of London and of other univs. and univ. colls. in the U.K. and Commonwealth; other persons approved by the dir. or cttee. of management. Forms of applicn. may be obtained from the secretary and the librarian.

**PUBLICATIONS.** The inst. publishes an *Annual Report* and a series of *Commonwealth Papers*, and issues a series of *Reprints*; a *Guide to Resources for Commonwealth Studies* and a *Union List of Commonwealth Newspapers* have also been publ.

## THE YEAR 1959

**RESIGNATIONS.** A. R. Hewitt (sec.-librarian).

Persons admitted to the inst.: 185 (23 univ. teachers, 112 res. students, 50 others).

Students from other countries, 67. (Countries from which largest numbers came: U.S.A., 13; India, 9; Canada, 8; Australia, 7).

[Information compiled as at 18/8/60]

## INSTITUTE OF EDUCATION

Founded 1902

*Postal Address:* University of London Institute of Education,  
Malet Street, London, W.C.1, England

*Telephone and Telegrams:* Museum 1500

**CHAIRMAN OF COUNCIL**—General Sir RONALD ADAM, GCB, DSO, OBE

**DIRECTOR**—H. L. ELVIN, MA Camb.

**DEAN**—Professor W. R. NIBLETT, BA Brist., BLitt Oxon.

**SECRETARY**—C. W. DIXON, MA Durh., BLitt Oxon., PhD

**DEPUTY SECRETARY**—KITTY M. EGAN, BA

REGISTRAR—CLARE J. HENRY

LIBRARIAN—D. J. FOSKETT, MA, FLA

ADVISER TO OVERSEAS STUDENTS—S. J. WORSLEY, DSO, MC, TD, Hon. MA *Oxon.*, Hon. LLD *Exe.*, BA

## CONSTITUENT DEPARTMENTS

Dept. of Education, King's College, Strand, W.C.2 (Hd. of Dept., Prof. A. V. Judges, BA DSc(Econ)). Training Dept., Goldsmiths' Col-

lege, New Cross, S.E.14 (Warden, Hd. of Trg. Dept. & Sch. of Art (teacher trg. course): D. R. Chesterman, MSc PhD).

## CONSTITUENT COLLEGES

[together with names of Principals]

Avery Hill Training Coll., Eltham, S.E.9 (Mrs. Kathleen E. Jones, MA BLitt *Oxon.*); Battersea Trg. Coll. of Domestic Science, 58 North Side, Clapham Common, S.W.4 (Florence F. Laidler, MSc *Wales*); Borough Road Coll., Isleworth, Middx. (E. R. Hamilton, CBE, MA *Camb.*, BSc); Brighton Coll. of Art & Crafts (teacher trg. course), Grand Parade, Brighton, 7 (R. T. Cowern); Brighton Trg. Coll., 8 Eastern Tce., Brighton, 7 (Kathleen M. Balforn, BA); Cavendish Square Trg. Coll., 11 Cavendish Sq., W.1 (Mother Mary Fidelis, BA); Chelsea Coll. of Physical Education, Carlisle Rd., Eastbourne (Audrey J. Bambara); Coloma Coll., Wickham Court, West Wickham, Kent (Mother Mary Benignus); Dartford Coll. of Physical Education, Dartford Heath, Kent (Edith Alexander); Digby Stuart Coll., Convent of the Sacred Heart, Roehampton, S.W.15 (Mother Mary K. Richardson, BA); Eastbourne Trg. Coll., Darley Rd., Eastbourne (Florence E. Ward, MSc *Leeds*); Froebel Educational Institute, Grove House, Roehampton Lane, S.W.15 (Molly Brearley, BA *Birm.*); Furzedown Coll., Welham Rd., S.W.17 (Catherine Fletcher, BA); Garnett Coll., 83 New Kent Rd., S.E.1 (C. Jameson, MEd *Durh.*, BSc); Gipsy Hill Trg. Coll., Kenry House, Kingston Hill, Kingston, Surrey (Frances D. Batstone, BA); Hornsey Coll. of Art & Crafts (teacher trg. course), Dept. of Teacher Trg., Western Rd., Wood Green, N.22 (H. H. Shelton); Maria Assumpta Trg. Coll., 23 Kensington Sq., W.8 (Mother Augustine Mary,

BA); Maria Grey Coll., 300 St. Margaret's Rd., Twickenham, Middx. (Beatrice E. Deayton, BA *Oxon.*, MA); National Society's Trg. Coll. of Domestic Subjects, Berridge House, Fortune Green Rd., N.W.6 (Kathleen M. Perry, MSc); National Trg. Coll. of Domestic Subjects, 72-78 Buckingham Palace Rd., S.W.1 (Barbara S. Briggs); Nonington Coll. of Physical Education, Nonington, nr. Dover, Kent (Ellinor M. Hinks), Philippa Fawcett Coll., 94-100 Leigham Court Rd., S.W.16 (Freda Jarvis); Rachel McMillan Coll., Creek Rd., Deptford, S.E.8 (Mary Davies); St. Gabriel's Coll., Cormont Rd., Camberwell, S.E.5 (Mary Atkinson, MA *Durh.*); S. Katherine's Coll., Tottenham, N.17 (Kathleen H. Nahapiet, BA *Calc.*, MA *Birm.*, PhD *Nott.*); Coll. of S. Mark & S. John, King's Rd., Chelsea, S.W.10 (A. A. Evans, MA *Brist.*); St. Mary's Coll., Strawberry Hill, Twickenham, Middx. (Very Rev. K. Cronin, MA); Seaford Trg. Coll. of Housecraft, Cricketfield Rd., Seaford, Sussex (Amy Teece, BA *Manc.*); Shoreditch Trg. Coll., Cooper's Hill, Englefield Green, Egham, Surrey (E. F. Marshall, MA *Camb.*); Southlands Coll., 65 Wimbledon Parkside, S.W.19 (Myra S. Johnson, BA *Leeds*); Stockwell Coll., The Old Palace, Bromley, Kent (Olive Lambert, MA *Oxon.*); Trent Park Coll., Barnet, Herts. (H. A. T. Simmonds, OBE, MA); Whitelands Coll., West Hill, Putney, S.W.15 (Marian M. Saunders, MA *Camb.*).

## CENTRAL INSTITUTE TEACHING STAFF

### Professors

Lauwerys, J. A., DSc *Ghent*, DLit, FRIC  
(Compar. E.)

Lewis, L. J., BSc *Wales*

(E. with sp. ref. to E. in tropical areas)

Pattison, B., BA *Durh.*, PhD *Camb.*, MA (Educn.)

Reid, L. Arnaud, MA DLitt *Edin.*,

PhD *Wales*

(Philos. of E.)

Vernon, P. E., MA PhD DSc (Educnl. Psychol.)

### Readers

Fleming, Charlotte M., PhD MA EdB *Glas.*

(Educn.)

Floud, Mrs. Jean E., BSc(Econ) (Sociol. of E.)  
Gardner, Dorothy E. M., MA *Leeds*

(Child Devel.)

James, H. E. O., MSc BA *Manc.* (Psychol.)

Weitzman, Sophia, PhD *Manc.*, MA,

FRHistS

(Educn.)

### Senior Lecturers

Baron, G., PhD BA MEd *Leeds*

(Contemp. Brit. Educnl. Instns.)

Batten, T. R., MA *Oxon.* (E. in Trop. Areas)

Britton, J. N., MA

(Engl.)

Burston, W. H., MA *Brist.*

(Hist.)

Cleugh, Mary F., PhD BA (Teaching of Educationally Sub-normal Children)	Hodge, Barbara J., MA <i>Camb.</i> (Classics)
Daltry, C. T., BSc (Maths.)	Holland, Louisa (Curric. of Primary Sch.)
Davis, Joan A. M., MA (Curric. of Sec. Mod. Sch.)	Holmes, B., BSc (Compar. E.)
Elliott, A. V. P., MA <i>Camb.</i> (Engl.)	Hursey, J. G. (Music)
Emerson, L. H. S., MA <i>Camb.</i> (Engl. Educnl. Thought & Practice)	Kay, Mrs. Heather S. (Engl.)
Henderson, J. L., MA <i>Oxon.</i> , PhD (Hist. and Internat. Affairs)	Langdon, Mrs. Eleanor M. (Child Devel.)
Hilliard, F. H., BD PhD (Relig. E.)	Lee, Doris M., MA PhD (Educnl. Psychol.)
Hodgson, Mrs. Frances M., BA (Mod. Langs.)	Long, Mrs. Iris L. M., MA (Geog.)
Honeybone, R. C., MA (Geog.)	Loveridge, A. J., CMG, OBE, MA <i>Camb.</i> (E. in Trop. Areas)
King, W. H., BSc MA PhD (Educn.)	Martin, Nancy C., MA DPA (Engl.)
Llowarch, W., MA <i>Camb.</i> (Phys. Sci.)	Milburn, S., MA <i>Oxon.</i> (E. in Trop. Areas)
Oakeshott, Mrs. Enid, PhD BSc <i>Manc.</i> (Child Devel.)	Moore, Mrs. Edith M., MA (Engl.)
Penfold, Mrs. Daisy M. Edwards, MSc AM <i>Col.</i> (Stats.)	Neuberg, K., MA N.Z. (Philos. of E.)
Reid, Mrs. Frances M., BSc PhD <i>Birm.</i> (Biol. Sci.)	Newland, W. R. (Pottery)
Schiller, L. C., CBE, MA <i>Camb.</i> (Jr. Sch.)	Noonan, J. A., DPhil <i>Oxon.</i> (Engl.)
Simpson, W. K., MusBac <i>Durh.</i> , FRCO (Music)	Perry, L. R., BA PhD (Hist.)
Sollis, C. G., MA <i>Oxon.</i> (E. in Trop. Areas)	Roberson, B. S., BSc(Econ) (Geog.)
Warden, Winifred M., MSc <i>Birm.</i> (Health E.)	Russell, C., BA (Mod. Langs.)
Whaite, H. C., DipFineArt <i>Edin.</i> (Art)	Sharwood-Smith, J. E., MA <i>Camb.</i> (Classics)
Lecturers	Speer, J. G., BA <i>Oxon.</i> (E. in Trop. Areas)
Andry, R. G., MA <i>Melb.</i> , PhD (Educnl. Psychol.)	Spencer, Ann O. (Art)
Baggott, Mrs. Doris I. (E. in Trop. Areas)	Tregear, P. S., BA (Educn.)
Barnard, G. L., MA (Engl.)	Waddington, Mary, MA (Child Devel.)
Bearman, Mrs. Ethel C., MA <i>Oxon.</i> (Mod. Langs.)	Whitehead, F. S., MA <i>Camb.</i> (Engl.)
Bryant, Margaret E., MA <i>Camb.</i> (Hist.)	Wilson, J., MA <i>Glas.</i> (E. in Trop. Areas)
Cass, Joan E. (Child Devel.)	Wilson, J. M., CBE, BSc (E. in Trop. Areas)
Chandler, Constance M., BSc (Phys. Sci.)	Wrigley, J., BSc MED <i>Manc.</i> , PhD <i>Belf.</i> (Maths.)
Clarke, Mrs. Julia H., BSc MA PhD (Gen. Sci.)	
Collins, Gertrude (Music)	Research Staff
Coppen, Mrs. Helen E., BSc <i>Pret.</i> (New Media)	Hindley, C. B., BSc MB ChB <i>Manc.</i>
Dobbs, J. P. B., BA <i>Wales</i> , MED <i>Durh.</i> (Music)	Malleson, N., MD, MRCP (Student Problems)
Evans, P. C. C., MA <i>Wales</i> (E. in Trop. Areas)	Moore, T. W., BA (Child Devel.)
Gabriel, Olive M. (Art)	Vaizey, J. E., MA (Econ. and Admin. of E.)
Gilbert, M., MA <i>Camb.</i> , BA BSc(Econ) (Mod. Langs.)	Assistants
Gould, Doris (Music)	Gill, Mrs. Madge, BA (E. in Trop. Areas)
Gray, Mrs. Sylvia M., BA <i>Pret.</i> (Teaching of Educationally Sub-normal Children)	Pratt, S., BA <i>Oxon.</i> (Econ. and Admin. of E.)
Hirst, P. H., MA <i>Camb.</i> (Philos. of E.)	Visiting Staff
	Akehurst, R. (Bookbinding)
	Breed, Hilda A. (Weaving)
	Fassam, Mrs. M. (Health E.)
	Foster, A. W. A. (Music)
	Fowles, J. A. (Lab. Arts)
	Honeybone, Mrs. D., BA (Geog.)
	Tustin, Mrs. F. (Child Devel.)
	Underwood, R. G., DPE (Phys. E.)
	Williams, R. (Lab. Arts)

## GENERAL INFORMATION

London Day Training Coll. was founded by the L.C.C. in 1902 as an instn. in connexion with the univ. working under the regns. of the bd. of educn. for the trg. of teachers. The first principal (1902-22) was Prof. (later Sir) John Adams. From 1909 to 1932 the coll. was a sch. of the univ. in pedagogy, and as such was governed by a coll. council composed equally of reps. of the L.C.C. and of the senate. In 1932, as the result of an agreement between the bd. of educn., the L.C.C. and the univ., the coll. was transferred to the

educnl. and financial control of the univ., and its title was changed to 'Univ. of London Institute of Education'. The inst. was administered as a 'central activity' of the univ. by a delegacy apptd. by the senate, and composed of reps. of that body, of the L.C.C. and of the teaching staff, together with certain co-opted members. In 1938 the inst. was transferred to the new bldg. on the Bloomsbury site provided by a sp. grant from the council to the univ.

In accordance with the recommendation of the



McNair cttee. on the trg. of teachers and youth leaders, the Univ. of London Inst. of Educn. now comprises the 'central activity', two constituent depts. and 34 constituent colls. The inst. is the area trg. organization for the counties of E. Sussex, Essex (except Mid-Essex and N.E. Essex), Kent, London, Middx., Surrey and the county boroughs of Brighton, Canterbury, Croydon, Eastbourne, E. Ham, Hastings, Southend and W. Ham. Its purpose is to advance the knowledge and practice of educn. by res., to encourage the univ. study of educn., and to improve, co-ordinate and extend the provision for the trg. of teachers within the area.

Students are trained under the Regns. for the Training of Teachers (H.M.S.O., Kingsway, London, W.C.2) for primary and secondary schs. Grads. may devote themselves continuously for a yr. to the theory, etc., of educn. and obtain the univ. postgrad. cert. in educn.

Particulars of the courses provided in the constituent depts. and colls. may be obtained from the sec. of the inst.

**FIRST DEGREES.** No courses provided for first degrees.

**HIGHER DEGREES** (of Univ. of London). *At central inst.*: MA and PhD in educn.

**DIPLOMAS, CERTIFICATES, ASSOCIATESHIPS, ETC.** (at central inst.). 1 yr.—postgrad. cert. in educn., art teacher's cert., music teacher's cert., sp. over-sea profess. cert. course, adv. course in the dept. of child devel., educn. of children in the jr. sch., dipl. in Engl. educn. thought & practice, dipl. in the teaching of Engl. as a foreign lang., dipl. in the educn. of maladjusted children, dipl. in the teaching of educationally sub-normal children, dipl. in religious educn., dipl. in the content & methods of health educn., academic dipl. in educn. 2 yrs. (pt.-time evg. courses)—cert. in theory & practice of jr. sch., cert. in teaching of

maths., cert. in teaching of sci., cert. in theory & practice of sec. sch., cert. in teaching of Engl.

An associateship of the inst. has been establd. and may be awarded to students who have completed at least 1 full session of work other than for a dipl. or higher degree in educn. Applicants for the award of the associateship must be recd. not later than Dec. 1 in the session in which they are to be considered. A fee of 3 gs. must accompany each applicant.

'Recognized' students taking one of the following: postgrad. cert. in educn., art teacher's cert., music teacher's cert., dipl. in the educn. of maladjusted children, dipl. in teaching of educationally sub-normal children or the adv. course in the dept. of child devel., under Ministry of Educn. regns. for the trg. of teachers, receive financial assistance towards fees and maintenance as set out in the current regns.

**FEES.** Annual tuition fees: 1 yr. and associateship courses, £62:10s.; 2 yr. evg. courses, £22:1s. p.a.; music, £85.

**RESIDENCES.** College rooms: 12-15 and 35-37 Bedford Way, London, W.C.1; 48-49 Coram St., London, W.C.1; 35 Gower St., London, W.C.1; 25-26 Woburn Square, London, W.C.1. Places available for 105 women and 81 men.

**PUBLICATIONS.** *Handbook* (annual); *Annual Report*. *Yearbook of Education* (publd. by Evans Bros., Ltd., in assocn. with this inst. and Teachers Coll., Columbia Univ.). Obtainable from inst.: *Oversea Quarterly* and *African Women* (supplement), twice p.a.; *Community Development Bulletin*, once a quarter; *Studies & Reports*, Nos. I-XIV; *Studies in Education*, Nos. I-X; *Studies & Impressions*; *Handbook for Geography Teachers*; *Education and the Philosophic Mind*; *External Exams. in Secondary Schs.*

## THE YEAR 1959

### Statistics

#### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	492	341
Women . . .	535	138
Total	1027	479

*Included in the figures above are :—*

Postgraduate students, 1350 (approx.).

New admissions, 1150 (approx.).

Students (full-time) from other countries, 324. (Countries from which largest numbers came: India, 60; Nigeria, 36; Canada, 23).

**DEGREES AWARDED** (by Univ. of London) (1958-59). *Educn.*: PhD, 10; MA, 21.

**DIPLOMAS AWARDED** (1958-59). *By Univ. of London*: academic dipl. in educn., 70. *By Inst.*: educn. of handicapped children, 45; Engl. educn. thought & practice, 16; health educn., 16; teaching of Engl. as a foreign lang., 35; religious educn., 2.

**CERTIFICATES AWARDED** (1958-59). *By Univ. of London*: postgrad. cert. in educn., 432. *By Inst.*: art teacher's, 53; professional cert., 37; Royal Soc. cert. health visitors, 36; teaching of sci., 14; Associateship of Inst., 23; religious educn., 2; theory & practice of jr. sch., 24.

[Information compiled as at 18/8/60]

## INSTITUTE OF GERMANIC LANGUAGES AND LITERATURES

Founded 1950

*Postal Address* : 29 Russell Square, London, W.C.1, England

*Cables and Telegrams* : Germanic Institute, Russell Square, London

*Telephone* : Langham 2711

CHAIRMAN OF MANAGEMENT COMMITTEE—Professor W. ROSE, MA PhD

HONORARY DIRECTOR—Professor F. NORMAN, OBE, MA, FSA

SECRETARY/LIBRARIAN—K. G. KNIGHT, MA PhD *Camb.*

### GENERAL INFORMATION

The objects of the inst. are to promote the advancement of the study of Germanic langs. and lits., to provide opportunities for contacts between scholars in the Germanic field, both within the univ. and from other centres of learning at home and abroad, and to arrange facilities for advanced study and res. in the relevant subjects.

Membership is granted, without fee, to full-time teachers in depts. of Germanic langs. and lits. of the univ., postgrad. students engaged on res. in any of these depts., sr. scholars from other univs., and other persons approved by the dir. or the cttee. of management; no undergrads. are admitted except for spec. purposes, such as attendance at seminars or courses held at the inst.

There are no registered students, or teaching staff.

**LIBRARY.** A reference library (more than 15,000 vols.) provides bibliographical and lexicographical material indispensable for res., and critical edns. of German, Dutch and Scandinavian authors; 62 periodicals are taken. Sp. collections: (1) Priebach collection of 2212 vols. of first and early edns. of German classical and romantic writers, and of translations from German; (2) library of the English Goethe soc., consisting of 373 vols. of Goetheana; (3) Gundolf collection of MS. material.

**PUBLICATIONS.** *Annual Report*; *Union List of Periodicals dealing with Germanic Langs. & Lits.* (comprises holdings of the inst., of the univ. library and of the schs. and insts. of the Univ. of London); *Schiller Bicentenary Lectures*.

### THE YEAR 1959

The inst. continued to act as a centre of postgrad. studies and as a meeting-place for scholars in the Germanic field. 19 colloquia were held

during the yr., of which a number were opened by scholars from abroad.

[Information compiled as at 18/8/60]

## INSTITUTE OF HISTORICAL RESEARCH

Founded 1921

*Postal Address* : Senate House, London, W.C.1, England

*Telephone* : Museum 0272-3

DIRECTOR—Professor F. WORMALD, LittD MA *Camb.*, FBA, FSA

SECRETARY AND LIBRARIAN—A. T. MILNE, MA

## GENERAL INFORMATION

The Inst. of Historical Research is one of the central instns. of the univ. administered by a cttee. apptd. annually by the senate. The inst. is primarily a lab. for the trg. of postgrad. students in the methods of historical res., and for the use of visiting scholars while working in London. It consists of a systematically planned series of seminar libraries, equipped with printed sources of British and foreign hist., guides to archives, bibliogs. and other essential works of reference. The cttee. may admit to use of the inst. any teacher of hist. in the univ. and his res. students; also teachers and res. students from other univs. Instrucn. is undertaken by the dir. and members of the hist. depts. of the schs. of the univ. It is normally carried on in (1) a series of prelim. courses dealing with the sources of British, Imperial and foreign hist., introductions to work in archives and palæography classes; (2) a series of seminars dealing with sp. historical subjects. In addn., the inst. is active in promoting the organ-

ization of historical studies in general, in undertaking bibliographical and other investigations, some results of which are publ. in its *Bulletin*, and in arranging conferences. Besides res. projects of its own, the inst. accommodates several associated enterprises, the largest being the hist. of parliament.

**LIBRARY.** 86,374 vols. of books, periodicals and pamphlets; also maps, prints and drawings, facsimiles and microfilms.

**PUBLICATIONS.** *Annual Report*; *Bulletin* (twice a yr., sub. 25s.) with annual supplements recording 'historical res. for univ. degrees in the U.K.', and occasional sp. supplements. *Victoria Hist. of the Counties of England* (general editor: R. B. Pugh, MA Oxon., FSA), price 5 gs. or 6 gs. per vol. The univ. publicn., *Sch. of Hist. & Inst. of Historical Res.*, serves as a handbook to the inst.

## THE YEAR 1959

**ADMISSIONS AND COURSES.** The no. of persons admitted to use of the inst. was 1133, incl. 432 students reading for higher degrees. 46 postgrad. courses and seminars in hist. were offered.

**CONFERENCES.** In addn. to the annual Anglo-American conference of historians, there were several evg. meetings addressed by visiting scholars.

[Information compiled as at 18/8,60]

## SCHOOL OF SLAVONIC AND EAST EUROPEAN STUDIES

Founded 1915 as a department of King's College, London; since 1932 a  
'Central Activity' of the University

*Postal Address:* University of London, School of Slavonic and  
East European Studies, London, W.C.1, England

*Cables and Telegrams:* University London Slavonic

*Telephone:* Museum 9782-3

**CHAIRMAN OF COUNCIL**—Professor F. NORMAN, OBE, MA, FSA

**DIRECTOR**—G. H. BOLSOVER, OBE, MA *Liv.*, PhD

**SECRETARY**—DOROTHY GALTON

**LIBRARIAN**—H. SCHURER, PhD *Leip.*, FLA

## TEACHING STAFF

<b>Bulgarian</b>		<b>Polish</b>	
Pinto, V. de S., Jr., MA <i>Oxon.</i> , PhD	Lectr.	Pietrkiewicz, J., MA <i>St. And.</i> , PhD	Lectr.
<b>Czech and Albanian</b>		<b>Roumanian</b>	
Mann, S. E., MA <i>Brist.</i>	Reader	Tappe, E. D., MA <i>Oxon.</i>	Lectr.
<b>History, Central European</b>		<b>Russian</b>	
Betts, R. R., MA <i>Oxon.</i> & <i>Birm.</i>	Masaryk Prof.	.....	Prof.
Skwarczyński, P., LLD <i>Cracow</i> , PhD	Lectr.	Malnick, Bertha, BA <i>Camb.</i> , PhD	Reader
<b>History, Economic and Social</b>		Hare, Hon. R., MA <i>Oxon.</i>	(Lit.) Reader
Warriner, Doreen, OBE, BA <i>Oxon.</i> , PhD		Stokes, A. D., MA PhD <i>Camb.</i>	Lectr.
(Eastern Europe) Reader		Norman, A., BA <i>Oxon.</i> , MA	Lectr.
Nove, A., BSc(Econ)		Swoboda, V., MA (Russian & Ukrainian)	Lectr.
(jointly with L.S.E.) (Russian) Reader		Burgess, M. A. S., MA PhD <i>Camb.</i>	Asst. Lectr.
<b>History of Danubian Lands</b>		Donehin, Mrs. G., BA PhD	Asst. Lectr.
Auty, Phyllis, MA BLitt <i>Oxon.</i>	Lectr.	Drage, C. L., BA <i>Oxon.</i> , MA	Asst. Lectr.
<b>History, Russian</b>		Ericsson, Mrs. K., DPhil <i>Berl.</i>	Lector
Seton-Watson, G. H. N., MA <i>Oxon.</i>	Prof., Hd. of Dept.	<b>Russian Economic History</b>	
Keep, J. L. H., BA PhD	Lectr.	Crisp, Mrs. Olga, BA PhD	Lectr.
<b>Hungarian</b>		<b>Serbo-Croat</b>	
Cushing, G. F., MA <i>Camb.</i> , PhD	Lectr.	Javarek, Mrs. Vera, BA PhD	Lectr.
		<b>Slavonic Philology, Comparative</b>	
		Nandris, G., PhD <i>Cracow</i>	Prof., Hd. of Dept.
		Leeming, H., BA <i>Manc. &amp; Lond.</i>	Lectr.

## GENERAL INFORMATION

Establd. at King's Coll., 1915. Since Aug. 1932 a dept. of the univ. in arts.

LIBRARY. 60,000 vols.

ADMISSION. See p. 965 and Appendix II. A student entering the sch. as an undergrad. will normally be required to have passed in a G.C.E. exam. at advanced level in the slavonic lang. of his choice, and 1 or 2 other subj.

FIRST DEGREES (of Univ. of London). The sch. provides 3-yr. courses for BA (gen. and hon.) degrees of the Univ. of London in Bulgarian (BA(Gen)), Czechoslovak, Hungarian, Polish, Roumanian, Russian and Serbo-Croat lang. and lit.; for BA (hons.) in Russian, central European and south-eastern European regional studies; and in hist., branch VI.

HIGHER DEGREES (of Univ. of London). MA in all the above langs. and lits. and in regional studies of the countries concerned; also in hist. PhD in hist. and in slavonic and E. European subj.

RESEARCH. Candidates with appropriate qualifs. accepted for res. not leading to degrees of Univ. of London.

FEES. £5 : 5s. to £45 p.a. for occasl. students of langs. Undergrads. (incl. union membership), £47 p.a.; postgrad., £23 p.a.

PUBLICATIONS. *Slavonic & East European Review* (twice p.a.). *Prospectus* (each session). *Director's Report* (each session).

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	93	53
Women	17	33
Total	110	86

Included in the figures above are :—

Students registered for univ. degrees, 97 full-time (80 m., 17 w.), 29 pt.-time (21 m., 8 w.).

Postgraduate students, 29.

New admissions, 45.

Students from other countries, 17. (Country from which largest number came : U.S.A., 8).

DEGREES AWARDED (by Univ. of London) (1958-59). Arts : MA, 18 ; BA hons., 12.

[Information compiled as at 18/8/60]

# WARBURG INSTITUTE

Incorporated 1944

*Postal Address* : Woburn Square, London, W.C.1, England

*Cables and Telegrams* : Warburg Institute, London, W.C.1

*Telephone* : Langham 9663-8

CHAIRMAN OF MANAGEMENT COMMITTEE—Professor EDNA PURDIE, MA *Liv.*, DLit

DIRECTOR—Professor E. H. J. GOMBRICH, MA *Oxon.*, PhD *Vienna*, FBA

SECRETARY—ANNE M. MEYER

LIBRARIAN—O. KURZ, PhD *Vienna*

CURATOR OF PHOTOGRAPHIC COLLECTION—Mrs. ENRIQUETA E. FRANKFORT, PhD

## TEACHING STAFF

[† = Part-Time]

### History of Art

Buchthal, H., PhD *Hamburg*, FBA

Ettlinger, L. D., PhD *Halle*

Swarzenski, P. T. J., PhD *Bonn*

Prof.

† Lectr.

† Lectr.

### History of the Classical Tradition

The Director

Mitchell, C., MA *Oxon.*

Prof.

Lectr.

### History of the Renaissance

Yates, Frances A., MA

Reader

## GENERAL INFORMATION

The inst. is concerned with the hist. of the classical tradition. It provides facilities for res. on the symbolism of the religions, arts and lits. of the Mediterranean civilizations. The *Library* contains about 140,000 vols. and offprints, and 1000 runs of periodicals. The *Photographic Collection* (about 230,000) covers the hist. and

iconography of classical art in post-classical times.

PUBLICATIONS. *Annual Report*; *Studies of the Warburg Inst.*; *Corpus Platonicum Medii Aevi*; *Journal of the Warburg and Courtauld Insts.*; *Mediæval & Renaissance Studies*.

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	5	1
Women . . .	4	2
	<hr/>	<hr/>
Total . . .	9	3

Postgraduate students, 12.

New admissions, 5 (incl. in figures above).

Students from other countries, 7.

DEGREES AWARDED (by Univ. of London)  
(1958-59). PhD, 1.

# NON-MEDICAL SCHOOLS

[Information compiled as at 1/7/60]

## BEDFORD COLLEGE\*

Founded 1849 ; incorporated 1909

*Postal Address* : Inner Circle, Regent's Park, London, N.W.1, England

*Cables and Telegrams* : Edforcoll, Norwest, London

*Telephone* : Welbeck 5743

PAIRON—H.M. QUEEN ELIZABETH THE QUEEN MOTHER

VISITOR—The Rt. Hon. LORD ADRIAN, OM, Hon. DSc *Penn., Oxon., Harv., Lyons, Manc., Durh., Johns H., Belf., Wales, N.Y., Sheff., Hull, Brazil, Bologna, Freib., Paris, Leic. & Lond.*, Hon. LLD *McG., St.And., Glas., Liv. & Dal.*, Hon. MD *Brussels, Louvain & Montr.*, MA MD *Camb.*, FRS, FRCP

CHAIRMAN OF COUNCIL—THE LADY MORAN, MBE, MA

PRINCIPAL—NORAH L. PENSTON, BA DPhil *Oxon.*

SECRETARY—IRENE G. SHEPPARD, BA

REGISTRAR—NORAH MCNAULTY, BA

LIBRARIAN—DORIS BAINS, BA, FLA

BURSAR—.....

## TEACHING STAFF

[†=Part-Time]

### Botany

Audus, L. J., MA PhD *Camb.*

Hildred Carlile Prof.

Spanner, D. C., BSc PhD

Reader

Sharman, B. C., PhD *Leeds*

Lectr.

Rose, F., BSc PhD

Lectr.

Bentley, Linna E., BSc *Manc.*, PhD

Lectr.

Turnbull, L. P., MSc *N.Z.*

Lectr.

Duncan, E. G., BSc *St. And.*

Asst. Lectr.

Smith, J. W., PhD DSc, FRIC

Reader

Lesslie, Mary S., MA BSc PhD *St.And.*,

DSc

Sr. Lectr.

Trew, Violet C. G., PhD DSc

Sr. Lectr.

Harris, Mrs. Margaret M., PhD DSc

Lectr.

Howlett, K. E., DSc PhD

Lectr.

Tillett, J. G., BSc PhD

Lectr.

Farago, Mrs. Margaret E., BSc PhD

Lectr.

Mackenzie, K., PhD

Asst. Lectr.

Ferrier, Barbara M., PhD *Edin.*

Asst. Lectr.

### Chemistry

De La Mare, P., MSc *N.Z.*, PhD DSc

Prof.

Hall, D. Muriel, BSc PhD

Reader

### Classics

Stevens, P. T., MA *Oxon.*, PhD *Aberd.*

(Gk.) Prof.

For women. (Men are admitted for postgraduate work.)

Onians, R. B., MA *Liv.*, PhD *Camb.*  
(Lat.) Hildred Carlile Prof.  
Staveley, E. S., MA DPhil *Oxon.*

(Anc. Hist.) Reader

..... (Gk.) Reader  
Andrewes, Margaret, MA (Lat.) Sr. Lectr.  
Wilkinson, Mrs. Gillian A., MA *Camb.*

(Lat.) Lectr.  
Adkins, A. W. H., MA DPhil *Oxon.* (Gk.) Lectr.  
Eden, P. T., MA *Oxon.* (Lat.) Lectr.  
Coldstream, N., MA *Camb.* (Gk.) Lectr.  
Lowe, J. C. B., BA *Oxon.* (Lat.) Lectr.  
Fitton, J., BA BPhil *Oxon.* (Gk.) Asst. Lectr.  
Saunders, T. J., BA (Lat.) Asst. Lectr.  
Barron, J. P., MA *Oxon.* (Lat.) Asst. Lectr.

### Dutch

Weevers, T., LitD *Ley.* (Lang. & Lit.) Prof.  
Huysinga, Aletta, LitDoct *Amst.* Lectr.

**Economics**, see Soc. Studies

### English

Tillotson, Mrs. Kathleen M., MA  
BLitt *Oxon.* (E. Lit.) Hildred Carlile Prof.  
Hodgson, Phyllis, MA *Camb.*, BLitt  
DPhil *Oxon.*, BA (E. Lang.) Prof.  
Latham, Agnes M. C., MA BLitt *Oxon.*

(E. Lit.) Reader  
Ridley, M. R., MA *Oxon.* † Lectr.  
Britton, G. C., MA PhD *Birm.* Lectr.  
Hill, D. M., BA *Leeds* Lectr.  
Martin, C. G., BSc *St. And.*, MA *Oxon.* Lectr.  
Salmon, Mrs. Vivian G., MA Lectr.  
Thomas, Gillian, BA *Oxon.* Asst. Lectr.

### French Language and Literature

Spink, J. S., MA *Leeds*, DUParis Prof.  
Lyons, Marianne F., MA *Oxon.*,  
DUParis Reader  
Mayer, C. A., BA PhD Reader  
Le Breton, Mrs. Eileen, LèsL *Lille*,  
DUParis, MA Lectr.  
Duckworth, C. R., MA *Birm.*,  
PhD *Camb.* Lectr.  
Laycock, Mrs. Blanche E., LèsL *Paris*  
† Asst. Lectr.  
Bird, Mrs. Eva, DUParis Asst. Lectr.

### Geography

Manley, G., MA *Camb.*, DSc *Manc.* Prof.  
Smee, Dora K., MA PhD Sr. Lectr.  
Timberlake, Eunice M., BSc Lectr.  
Mountjoy, A. B., MC, MA *R'dg.* Lectr.  
Vollans, Eleanor C., MA BLitt *Oxon.* Lectr.  
Embleton, C., MA PhD *Camb.* Lectr.  
Chisholm, M., MA *Camb.* Asst. Lectr.

### Geology

King, B. C., MSc *Durh.*, DSc *Glas.*, PhD Prof.  
Holland, C. H., BSc *Manc.*, PhD Lectr.  
Dunlop, Grace M., PhD *Glas.* Lectr.  
Sturt, B., BSc PhD *Wales* Asst. Lectr.

Turner, D. C., BSc  
Beavon, R., BSc *Wales* Asst. Lectr.  
Asst. Lectr.

### German

Purdie, Edna, MA *Liv.*, DLit Prof.  
Walshe, M. O'C., MA Reader  
Atkinson, Margaret E., MA Lectr.  
Knight, Dorothy, MA Lectr.  
Ostberg, K., MA Lectr.  
Ockendon, R. C., BA *Oxon.* Asst. Lectr.

### History, Mediæval and Modern

Penson, Dame Lillian M., DBE, Hon. LLD  
*Camb.*, *Leeds*, *McG.*, *St. And.* & *S'ton.*,  
Hon. DLit *Belf.*, Hon. DLitt *Sheff.* &  
*W. Ont.*, Hon. DCL *Oxon.*, PhD  
(Mod. H.) Prof.

Du Boulay, F. R. H., MA *Oxon.*  
(Mediæv. H.) Prof.

Greaves, R. W., MA DPhil *Oxon.* Reader  
Burton, I. F., BA *Belf.* Lectr.  
Lawrence, C. H., MA DPhil *Oxon.* Lectr.  
Hankey, A. Teresa, PhD Lectr.  
Cromwell, Valerie, BA Asst. Lectr.  
Russell, C. S. R., BA *Oxon.* Asst. Lectr.

### Italian

Dionisotti, C., MA *Oxon.*, DottLett *Turin* Prof.  
Thorne, Mrs. Elizabeth, PhD Lectr.  
Gianarelli, Carla, DottLett *Florence* Asst. Lectr.

### Mathematics

Eggleston, H. G., MA PhD ScD *Camb.* Prof.  
Clark, G. L., MA PhD *Camb.* Reader  
Sargent, Winifred L. C., MA  
ScD *Camb.*, PhD Reader  
Kneebone, G. T., MSc PhD Lectr.  
Danicic, I., PhD Lectr.  
Kendall, P. C., MSc PhD Lectr.  
Ranger, K. B., PhD Asst. Lectr.  
Cohn, J. H. E., BA *Oxon.* Asst. Lectr.

### Philosophy

Acton, H. B., MA DPhil *Oxon.* Prof.  
Lacey, A. R., MA PhD *Camb.* Lectr.  
Meager, Ruby L., MA BPhil *Oxon.* Lectr.  
Tulloch, Doreen, MA PhD *St. And.*

Visiting Lectr.  
Kolnai, A. T., PhD *Bud.* Visiting Lectr.

### Physics

Richardson, H. O. W., PhD *Camb.*,  
DSc *Edin.* Hildred Carlile Prof.  
Pincherle, L., DottFisica *Bologna* Reader  
Donovan, B., BSc PhD, FIP Lectr.  
Little, V. I., BSc PhD Lectr.  
Mansfield, R., BSc PhD Lectr.  
Hill, Nora E., BSc PhD Lectr.  
Hurd, D. L., BSc Asst. Lectr.  
Cooke, C., PhD Asst. Lectr.

**Physiology**

Widdas, W. F., MB BS <i>Durh.</i> , PhD DSc	Prof.
Cheesman, D. F., PhD (Biochem.)	Reader
Hilton, Mrs. Elizabeth L., MSc <i>Melb.</i>	Lectr.
Darlow, G., BSc PhD	Lectr.
Bond, Audrey M., BSc PhD	Lectr.
Chambers, P., BSc <i>Sheff.</i>	Asst. Lectr.
Norden, Daphne A., BSc	Asst. Lectr.
Prebble, J., PhD	Asst. Lectr.

**Psychology**

Harding, D. W., MA <i>Camb.</i>	Prof.
Wynn Reeves, Joan, PhD	Reader
Forrest, D. W., MA <i>Oxon.</i> , PhD	Lectr.
Lawlor, Monica, PhD	Lectr.
Chown, Mrs. Sheila, PhD <i>Liv.</i> , BSc	Lectr.
Stevenson, W. A. H., TD, MA BM BCh <i>Oxon.</i>	Visiting Lectr.
Brown, W. P., PhD <i>Aberd.</i>	Asst. Lectr.
Vincent, Shirley, BA <i>Camb.</i>	(Stats.) Asst. Lectr.

**Social Studies and Economics**

Williams, Lady Gertrude, BA <i>Manc.</i>	(Soc. Econ.) Prof.
Pinchbeck, Ivy, MA PhD	Reader
McGregor, O. R., BSc(Econ)	(Soc. Instns.) Reader
Fletcher, R., BA <i>Brist.</i> , PhD	Lectr.
Ilersic, A. R., BCom MSc	(Soc. Stats.) Lectr.
Rooff, Madeline M., BA	Lectr.
McIntosh, Mrs. Marjorie, BA <i>Oxon.</i>	Lectr.
Nevitt, Adela A., BSc(Econ)	Lectr.
Shenfield, Mrs. Barbara E., BA <i>Birm.</i>	Visiting Lectr.

**Zoology**

Millott, N., MSc <i>Sheff.</i> , PhD <i>Camb.</i>	Prof.
Healey, E. G., DPhil <i>Munich</i> , BSc PhD	Reader
Ince, Frances E., MSc	Sr. Lectr.
Gilchrist, Barbara M., BSc PhD	Lectr.
Dales, R. P., BSc PhD	Lectr.
Green, J., BSc PhD	Lectr.
Pontin, A. J., MA DPhil <i>Oxon.</i>	Asst. Lectr.
Pontin, Mrs. Rosalind, BSc	Asst. Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Maintenance Officer : I. S. Sutton.  
 Warden of Reid Hall : Margaret Lamb, BA  
 N.Z. Dean of Lindsell Hall : Mary S. Lesslie,

MA BSc PhD *St.And.*, DSc. Warden of  
 Hanover Lodge : Mrs. Evelyn Stayt. College  
 Matron : Mrs. Beatrice Craggs.

**GENERAL INFORMATION**

A sch. of the univ. in arts, sci. and econ. Founded in 1849 by Mrs. Elisabeth Jesser Reid at 47 Bedford Sq., W.C.1, as an undenominational coll. for women; men have been admitted as registered postgrad. students since 1946; moved to Baker St. in 1874 and to its present site in Regent's Park in 1913. From 1878 students were prepared for the exams. of the Univ. of London, which had just opened its degrees to women. In 1900 the coll. was recog. by the Univ. of London in the facs. of arts and sci. and in 1912 the first univ. chair tenable at the coll. was instituted in maths. Further bldgs. were added after the 1914-18 war to accomm. increased nos. of students, and in 1931 the Tuke bldg., designed for several of the arts depts. and providing labs. for the depts. of chem. and phys., was opened. Academic devel. continued steadily, and by 1939 15 of the depts., and by 1948 all depts., were under the headship of profs. of the univ. From 1939 to 1944 the coll. was evacuated to Cambridge, and during this period the bldgs. in London were seriously damaged by enemy action. The reconstruction of the war-damaged bldgs. started in 1947 and was completed in April 1952.

CONSTITUTION. Governed by governors and council which includes reps. of the univ., the L.C.C. and the coll. staff.

FACULTIES AND DEANS. *Arts*, Prof. Lady Williams (sociol.); *sci.*, Prof. N. Millott (zool.).

LIBRARY. 120,000 vols. (not incl. pamphlets).

LABORATORIES. Bot., chem., geog., geol., phys., physiol., psychol. and zool.

OBSERVATORY. Grub 7-in. telescope, equatorially mounted.

ADMISSION. Min. age for admission, 18. In addn. to satisfying the univ. entrance requirements (see p. 965 and Appendix II) candidates other than grads. must also pass the coll. entrance exam.

FIRST DEGREES (of Univ. of London). The coll. provides courses for degrees of the Univ. of London as listed below. 3 yrs.—BA (gen.); BSc (gen.); BA (hons.) in classics, Dutch, Engl., French, geog., German, Greek (with Latin), hist., Italian, Latin (with Greek), maths., philos., philos. & econ., philos. & psychol., psychol., sociol.; BSc(Soc); BSc (spec.) in biochem., bot., chem., geog., geol., maths., phys., physiol., psychol., zool.

HIGHER DEGREES (of Univ. of London). MA, MSc, PhD in classics, Dutch, Engl., French, geog., German, Greek, hist., Italian, Latin, maths., philos., philos. & econ., philos. & psychol., psychol., sociol.; biochem., bot., chem., geog., geol., maths., phys., physiol., psychol., zool. MSc & PhD(Econ) in sociol.

DIPLOMAS. *Awarded by Univ. of London*: univ. academic dipl. in psychol., 1 yr. postgrad. *Awarded by the coll.*: coll. dipls. in soc. studies and in beta & gamma ray spectroscopy, 1 yr. postgrad. each.



**RESEARCH.** Facilities in all depts.

**FEES** (inclusive annual) for tuition: BA, £45; MA and PhD (arts), £21; BSc, £60; MSc and PhD (sci.), £30; soc. studies dipl., £47: 5s. Union soc. & athletic union, £3.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**GRADUATES' ASSOCIATION.** Bedford Coll. old students' assocn.

**STUDENT RESIDENCES.** Reid Hall, Regent's Park, N.W.1 (tel.: Welbeck 5743); £153:15s.

p.a.; 136 students. **Lindsell Hall**, 25-35 Adamson Rd., N.W.3 (tel.: Primrose 2770); £129:15s. p.a.; 87 students. **Hanover Lodge**, 150 Park Rd., N.W.8 (tel.: Ambassador 5163); £153:15s. p.a.; 36 students. All residences for women only. Fees liable to alteration at any time.

**STUDENTS' UNIONS.** Students' union soc. and athletic union.

**PUBLICATIONS.** *Calendar* every 2 yrs., post free, 3s. 6d.; *Prospectus*, free; *History of Bedford Coll. for Women, 1849-1937*, by M. J. Luke (O.U.P., 1939; obtainable from the coll., 3s. 6d. post free).

## THE YEAR 1959

**RETIREMENT.** Prof. E. Turner (chem.); Marion J. Tooley (hist.).

**DEATHS.** Gwendoline E. Griffiths (bursar, 1950-59); Geraldine E. M. Jebb (principal, 1930-51); Isabella M. Massey (reader, German, 1921-52).

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time*</i>
Men . . .	18	10
Women . . .	894	18
<b>Total</b>	<b>912</b>	<b>28</b>

\* Students attending only single courses of lectures, not the whole of a regular degree or dipl. course

**Distribution by Faculties.** *Arts*, 604; *sci.*, 336. Total: 940.

*Included in the figures above are:—*

Postgraduate students, 111.

New admissions, 312.

Students from other countries, 62. (Country from which largest numbers came: U.S.A., 9; Canada, 7; India, 5; S. Africa, 5).

**DEGREES AWARDED** (by Univ. of London) (1958-59). *Arts*: BA (incl. BSc(Soc)), 145; MA, 7; PhD, 8. *Sci.*: BSc, 80; MSc, 3; PhD, 9.

**DIPLOMAS AND CERTIFICATES AWARDED** (1958-1959). Coll. postgrad. dipl. in soc. studies, 8.

[Information compiled as at 2/9/60]

## BIRKBECK COLLEGE

Incorporated 1926; previously established as the London Mechanics' Institute, 1823

*Postal Address*: Malet Street, London, W.C.1, England

*Cables and Telegrams*: Birkbeck College, London

*Telephone*: Langham 7941

**PATRON**—H.M. QUEEN ELIZABETH THE QUEEN MOTHER

**PRESIDENT OF THE COLLEGE**—The Rt. Hon. LORD DENNING

**CHAIRMAN OF THE GOVERNORS**—W. R. WOOLDRIDGE, PhD *Camb.*, MSc, FRIC, FRCVS

**MASTER**—J. F. LOCKWOOD, MA *Oxon.*, Hon. LLD *Leic. & W. Ont.*, PhD

CLERK TO THE GOVERNORS—A. J. CARAFFI, BSc

SENIOR TUTOR—D. DAKIN, MA *Camb.*, PhD, FRHistS

REGISTRAR—ELEANOR M. ROBERTSON

LIBRARIAN—A. P. HOWSE, MA, FLA

## TEACHING STAFF

[†=Part-Time]

## Art, see Hist. of Art

## Botany

Ingold, C. T., DSc *Belf.*, FLS

Prof., Hd. of Dept.

Wilson, K., MSc PhD

Reader

Plunkett, B. E., BSc PhD

Lectr.

Cunnell, G. J., BSc PhD

Lectr.

Dixon, P. A., BSc

Lectr.

Casseltan, P. J., BSc

Asst. Lectr.

Dodge, J. D., BSc

Asst. Lectr.

## Chemistry

Overend, W. G., DSc *Birm.*, FRIC

Prof., Hd. of Dept.

Ives, D. J. G., DSc PhD, FRIC

Reader

Williams, G. H., PhD

Reader

Pittman, R. W., BSc PhD

Sr. Lectr.

Shaw, R. A., BSc PhD, FRIC

Lectr.

Feakins, D., BSc PhD

Lectr.

Williams, N. R., MA PhD *Camb.*

Lectr.

Capon, B., BSc PhD *S'ton.*

Lectr.

Hedgley, E. J., BSc PhD *Birm.*

Lectr.

Ferrier, R. J., BSc PhD *Edin.* (on leave)

Lectr.

Smith, B. C., MA *Camb.*, PhD *Nott.*

Lectr.

Bacon, M. F., BSc

Asst. Lectr.

Fitzimmons, B. W., BA *Dub.*

Asst. Lectr.

Collins, P. M., MSc

Asst. Lectr.

## Classics and Ancient History

Warmington, E. H., MA *Camb.*, FRHistS

Prof., Hd. of Dept.

Webster, Mrs. A. Marjorie, MA *Oxon.*,

FBA

Prof.

Way, A. G., MA

Lectr.

Caven, B. McM., MA *Camb.*

Lectr.

## Dutch

Weevers, T., LitD *Ley.*

†Prof., Hd. of Dept.

Huysinga, Aletta, LitDocta *Amst.*

†Lectr.

Viejou, Olga A., LittCand

†Asst.

## English Language and Literature

Tillotson, G., BLitt *Oxon.*

(Lit.) Prof., Hd. of Dept.

Freeman, Rosemary, MA PhD *Camb.*

Lectr.

Brooks, H. F., MA BLitt DPhil *Oxon.*

Lectr.

Evison, Vera I., BA, FSA

Lectr.

Hardy, Mrs. Barbara G., MA

Lectr.

Johnston, A., MA DPhil *Oxon.*

Lectr.

Russell-Smith, Joy D. M., MA *Oxon.*

Lectr.

Bately, Janet M., MA *Oxon.*

Lectr.

Allen, Dorena V., BA *Oxon.*

Asst. Lectr.

## French Language and Literature

Taylor, A. C., BA *Syd.*, DU DèS *L. Paris*

Prof., Hd. of Dept.

Ross, D. J. A., BA *Camb.*, MA PhD

Reader

Barber, W. H., MA DPhil *Oxon.*

Reader

Fearn, Mrs. Marguerite-Liliane,

Lès *L. Neuchâtel*, BA PhD

Lectr.

Bailey, Mrs. Rose N. N., Lès *L. Dijon*, BA

PhD

Lectr.

Blanc, M. H. A., Lès *L. Lyons*, BA

Asst. Lectr.

Polak, Lucie L. G., PhD

Asst. Lectr.

Curra, Mrs. Henriette, MA *St. And.*, BA

Assistante

## Geography

East, W. G., MA *Camb.*

Prof., Hd. of Dept.

Henderson, H. C. K., MA BSc *Glas.*,

PhD

Reader

Campbell, Eila M. J., MA, FSA

Lectr.

Dury, G., MA PhD, FGS

(on leave) Lectr.

Davis, J. F., BA PhD

Lectr.

Hall, P. G., MA PhD *Camb.*

Lectr.

Bunting, B. T., MA *Sheff.*

Lectr.

## Geology

Dollar, A. T. J., PhD *Camb.*, BSc, FGS

Reader, Hd. of Dept.

Seager, A. F., BSc PhD, FGS

Lectr.

Simpson, A., BSc *Glas.*, FGS

Lectr.

Temple, J. T., MA PhD *Camb.*, FGS

Lectr.

Fitch, F. J., BSc, FGS

Lectr.

## German

McClean, R. J., DrPhil *Königsberg*, MA

Prof., Hd. of Dept.

Robson-Scott, W. D., MA *Oxon.*,DrPhil *Vienne*

Lectr.

Jolles, Charlotte, DrPhil *Berl.*, MA

Lectr.

Brady, P. V., MA *Camb.*

Asst. Lectr.

## History

Darlington, R. R., PhD *R'dg.*, BA,

FRHistS, FBA, FSA Prof., Hd. of Dept.

Ruddock, Alwyn A., BA PhD, FRHistS

Reader

Hobsbawm, E. J., MA PhD *Camb.*

Reader

Dakin, D., MA *Camb.*, PhD, FRHistS

Sr. Lectr.

McGurk, P. M., BA PhD

Lectr.

Gibbs, G. C., MA *Liv.*

Lectr.

Cumpston, Mary, MA *Syd.*, DPhil *Oxon.*

Lectr.

Wilks, M. J., MA PhD *Camb.*

Lectr.

**History of Art**

- Pevsner, N. B. L., CBE, MA *Camb.*,  
PhD *Leip.*, FSA †Prof., Hd. of Dept.  
Summerson, Sir John, CBE, BA, FBA,  
FSA †Lectr.  
Murray, P., BA PhD, FSA †Lectr.  
Zarnecki, G., MA *Cracow*, PhD †Lectr.

**Italian**

- Duncan, D. S., BA Lectr., Hd. of Dept.  
Giorgetti, G. P., DottLett *Pisa* Lectr.

**Mathematics, Pure and Applied**

- Offord, A. C., PhD *Lond. & Camb.*, DSc,  
FRS Prof., Hd. of Dept.  
Cooke, R. G., DSc Reader  
Dowker, C. H., BA *W. Ont.*, MA *Tor.*,  
PhD *Prin.* Reader  
Cox, D. R., MA *Camb.*, PhD *Leeds*  
(Stats.) Reader  
Tiffen, R. W., MSc PhD, FIP Reader  
Vermes, P., DSc Sr. Lectr.  
Ingleton, A. W., BSc PhD Lectr.  
Edge, J., BA *Camb.*, BSc Lectr.  
Kronheimer, E. H., MA *Camb.*,  
PhD *S'ton.* Lectr.  
Greenwood, D. A., MA PhD *Camb.*  
(on leave) Lectr.  
Wetherill, G. B., BSc PhD (Stats.) Lectr.  
Booth, Mrs. Kathleen H. V., BSc PhD †Lectr.  
Coppel, W. A., BA *Melb.* Lectr.  
Mehdi, M. R., MSc PhD Lectr.  
Buxton, L. G., BSc †Asst.

**Numerical Automation**

- Booth, A. D., PhD *Birm.*, DSc, FIP  
(Computational Methods) Reader, Hd.  
of Dept.  
..... Asst. Lectr.

**Philosophy, Logic and Ethics**

- Saw, Ruth L., BA PhD Reader, Hd. of Dept.  
Peters, R. S., BA *Oxon. & Lond.*, PhD Reader  
Hamlyn, D. W., MA *Oxon.* Lectr.  
Griffiths, A. P., BA *Wales*, BPhil *Oxon.* Lectr.  
Shillcock, D. J., BA Asst. Lectr.

**Physics**

- Bernal, J. D., MA *Camb.*, FRS Prof., Hd. of Dept.  
Fürth, R., DrPhil *Prague*, FIP  
(Theoret. P.) Reader  
Ehrenberg, W., PhD *Heidel.*, DSc, FIP Reader  
Carlisle, C. H., MSc *Luck.*, DPhil *Oxon.*,  
FIP (Crystallog.) Reader  
Cusack, N. E., BSc PhD Lectr.  
Humphreys-Owen, S. P. F., BA *Camb.*,  
BSc PhD Lectr.  
Jeffery, J. W., BA *Camb.*, PhD, FIP Lectr.  
Trent, P., BSc PhD Lectr.  
Jennings, J. C. E., BSc PhD Lectr.  
Butt, D. K., PhD *Edin.*, BSc Lectr.  
Mackay, A. L., MA *Camb.*, BSc PhD Lectr.  
Moore, M. N., BA *Calif.*, PhD  
(Theoret. P.) Lectr.  
Hirsch, J., BSc PhD Lectr.  
Bullen, G. J., BSc PhD Lectr.

**Psychology**

- Mace, C. A., MA *Camb.*, DLit Prof., Hd. of Dept.  
Rodger, A., MA *Camb.* (Occupnl. P.) Prof.  
Foss, B., MA *Oxon. & Camb.* Lectr.  
Veness, Thelma, BA Lectr.  
Hurwitz, H. M. B., BA *Rand* Lectr.  
Brown, J., MA PhD *Camb.* Lectr.  
Ward, Barbara, MA *Camb. & Lond.*  
(Anthropol.) †Lectr.  
Fletcher, R., BA *Brist.*, PhD †Lectr.  
Cavanagh, P., MA *Camb.* Lectr.  
Randell, G. A., BSc *Nott.* Asst. Lectr.

**Spanish**

- Watson, A. I., BA PhD Lectr., Hd. of Dept.  
Dutton, B., MA Lectr.  
Truman, R. W., BA *Oxon.* Asst. Lectr.  
Salazar, A. M., LicenHist *Seville* †Asst.

**Zoology**

- Bullough, W. S., DSc *Leeds* Prof., Hd. of Dept.  
Hughes, T. E., MA *Oxon.* Reader  
Griffiths, I., MSc *Wales*, PhD Lectr.  
McGee-Russell, S. M., MA DPhil *Oxon.* Lectr.  
Attridge, J., MA MS *Calif.*, BSc Lectr.  
Weidmann, U., DPhil *Zür.* Lectr.  
Chapman, R. F., BSc PhD Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Bursar : J. W. Spershott. Asst. Sec. : P. B. Rowley, MA *Oxon.* Dep. Librarian : Norah H.  
Evans, BA, FLA. Asst. to Registrar : Joyce M. Withers.

**GENERAL INFORMATION**

Founded by Dr. George Birkbeck in 1823 'for the purpose of giving educn. to students in the principles of the arts they practise, and in the various branches of sci. and useful knowledge'. The principal aim of the coll., which was admitted as a sch. of the univ. in 1920, is to enable men

and women engaged in full-time occupations during the day to employ their leisure in reading for first degrees in arts and pure sci. or to engage in res. with a view to taking higher degrees in these facs. While the coll. is primarily intended for evg. and pt.-time students, undergrads. may in

their final yr. be admitted to full-time study and postgrad. students wishing to devote the whole of their time to their res. are also accepted.

FACULTIES AND DEANS (1960-61). *Arts*, Prof. A. C. Taylor (French); *sci.*, Dr. R. G. Cooke (maths.).

LIBRARY. 76,000 vols.

ADMISSION. See p. 965 and Appendix II.

FIRST DEGREES (of Univ. of London). The coll. provides courses for degrees of the Univ. of London as listed below. 3 yrs.—BA (gen.), BSc (gen.); 3 or 4 yrs.—BA (hons.) in classics, Dutch, Engl., French, geog., German, Greek (with Latin), hist., Latin (with Greek), maths., philos., philos. & psychol., psychol., or Spanish; 4 yrs.—BSc (spec.) with, as main subj., bot., chem., geog., geol., maths., phys., psychol., or zool.

HIGHER DEGREES (of Univ. of London). MA and PhD in classics, Engl., French, German, geog., hist., maths., philos., psychol., Spanish; MSc and PhD in bot., chem., crystallog., geog., geol., maths., phys., psychol., zool. Lecture

courses for MA and MSc in maths., MSc in crystallog., and MA and MSc in occupnl. psychol.

DIPLOMAS. Awarded by Univ. of London. Postgrad.: numerical analysis, psychol., stats., each 1 yr. full-time or 2 yrs. pt.-time.

ADVANCED STUDIES. Res. facilities are offered to full-time and pt.-time students in all depts. Enquiries should be directed to the hd. of the dept. concerned or to the registrar.

FEES. Annual composition fees (incl. union membership): arts (incl. maths. in both facs.), £15; sci. (incl. geog. and psychol. in both facs.), £20. Postgrad. work: arts, pt.-time, £10, whole-time, £21; sci., pt.-time, £15, whole-time, £30.

PUBLICATIONS. *Prospectus* (post free); *Calendar*, 2s. 6d.; *Report* (annual); *Haldane Memorial Lectures*; *Foundation Orations*; *Inaugural Lectures*, 2s. 6d. each; *Lodestone* (students); *Delisle Burns, History of Birkbeck Coll.*, Univ. of London Press, 1924; E. H. Warmington, *A History of Birkbeck Coll. during the Second World War 1939-45*, Birkbeck Coll., 1954. Copies of all publicns. may be obtained from the coll.

## THE YEAR 1959

RETIREMENT. Dr. Alice Aubry (French).

RESIGNATIONS. Dr. K. L. Alvin (bot.), apptd. lectr., Imperial Coll., Lond.; Dr. D. C. Bradley (chem.), apptd. to chair of inorg. chem., W. Ont.; Dr. W. Rigby (chem.), apptd. lectr., Leeds; Dr. E. G. Michaelis (phys.), apptd. to post at C.E.R.N., Geneva; Dr. P. C. Dodwell (psychol.); Dr. A. N. Clements (zool.), apptd. lectr., S'ton.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	94	999
Women . . .	39	367
Total	133	1366

Distribution by Faculties. *Arts*, 777; *sci.*, 722. Total: 1499.

Included in the figures above are:—

Postgraduate students, 495.

New admissions, 397.

Students (full-time and pt.-time) from other countries, 131. (Country from which largest number came: India, 38).

DEGREES AWARDED (by Univ. of London) (1958-59). *Arts*: BA, 9; BA (hons.), 37; MA, 5; PhD, 4. *Sci.*: BSc, 21; BSc (spec.), 57; MSc, 23; PhD, 19.

[Information compiled as at 19/8/60]

## IMPERIAL COLLEGE OF SCIENCE AND TECHNOLOGY

Founded 1907

Postal Address: Prince Consort Road, S. Kensington, London, S.W.7, England

Cables and Telegrams: Imperial College, London, S.W.7

Telephone: Kensington 5111

VISITOR—H.M. THE QUEEN

CHAIRMAN OF THE GOVERNING BODY—The Rt. Hon. THE VISCOUNT FALMOUTH

RECTOR—Sir PATRICK LINSTREAD, CBE, DSc, DIC, FRS

PRO RECTOR—Professor D. M. NEWITT, MC, DSc PhD, DIC, FRS

DEAN OF THE ROYAL COLLEGE OF SCIENCE—Professor H. JONES, PhD *Leeds & Camb.*, FRS

DEAN OF THE CITY AND GUILDS COLLEGE—Professor O. A. SAUNDERS, MA *Camb.*, DSc(Eng), FIP, FRS

DEAN OF THE ROYAL SCHOOL OF MINES—Professor J. C. MITCHESON, CBE, BSc *Birm.*, FGS

SECRETARY AND CLERK TO THE GOVERNORS—J. M. CORIN, BA *Camb.*

REGISTRAR—E. F. CUTCLIFFE, MBE, MA *Oxon.*

FINANCIAL SECRETARY—A. E. SAVAGE, MA *Oxon.*

DEVELOPMENT SECRETARY—A. A. BATH, BSc(Econ) *Belf.*

DOMESTIC BURSAR—C. C. SEAFORD, MC, BA *Oxon.*

LIBRARIAN—C. W. H. CURRIE, MA *Camb.*, LLB, FLA

## TEACHING STAFF

[† = Part-Time]

### Aeronautics

Squire, H. B., MA *Oxon.*, FRAeS, FRS

Zaharoff Prof., Hd. of Dept.

Argyris, J. H., DE *Munich*, DSc(Eng),  
FRAeS (Aeronaut. Structures) Prof.

Fraenkel, L. E., MSc (Aerodynam.) Reader  
..... (Aeronaut. Structures) Reader  
..... (Aeronaut.) Reader

Irving, F. G., MEng *Liv.*, DIC Lectr.

Stollery, J. H., MSc, DIC Lectr.

Jackson, G., MA *Camb.*, DIC Lectr.

Kochanski, S. L., BSc Lectr.

Taylor-Russell, A. J., BSc(Eng), DIC Lectr.

Slann, P. A. Lectr.

Thomas, K., BSc(Eng) PhD Lectr.

Kelsey, S., BSc(Eng) Lectr.

2 Temp. Lectrs., 2 Demrs.

**Bacteriology**, see Bot.

**Biochemistry**, see Bot.

**Biology**, see Bot., Zool.

### Botany and Plant Technology

James, W. O., MA DPhil *Oxon.*, FRS  
Prof., Hd. of Dept.

Porter, Mrs. Helen K., DSc, DIC, FRS  
(Plant Physiol.) Prof.

..... (Biochem.) Prof.

Buston, H. W., DSc, DIC (Biochem.) Reader

Jacobs, S. E., DSc PhD (Bacteriol.) Reader

Wood, R. K. S., BSc PhD, DIC  
(Plant Pathol.) Reader

Rutter, A. J., BSc PhD (Ecol.) Reader

Edelman, J., PhD BSc (Enzym.) Reader

Whitehead, F. H., MA DPhil *Oxon.*  
(Exper. Taxonomy) Reader

..... (Plant Physiol.) Reader

Greenwood, A. D., BSc Sr. Lectr.

Levy, J. F., BSc Lectr.

Batts, C. C. V., BSc PhD Lectr.

Russell, J., BSc PhD Lectr.

Madellin, M. F., PhD, DIC Lectr.

Kershaw, K. A., BSc PhD (Bot.) Lectr.

Alvin, K. L., PhD, FLS Lectr.

Gay, J. L., BSc *Leeds*, PhD *Nott.* Lectr.

Hannay, J. W., PhD BSc *Manc.* Lectr.

Threlfall, R. J., BSc PhD Lectr.

Dadd, A. H., PhD BSc Lectr.

Dalby, D. H., BSc PhD Lectr.

Dickerson, A. G., BSc Asst. Lectr.

7 Demrs.

### Chemistry

Barrer, R. M., ScD *Camb.*, DSc, FRIC,

FRS (Phys. C.) Prof., Hd. of Dept

Wilkinson, G., PhD, DIC (Inorg. C.) Prof.

Barton, D. H. R., DSc PhD, FRS (Org. C.) Prof.

Tompkins, F. C., DSc PhD *Brist.*, FRS

(Phys. C.) Prof

Theobald, L. S., MSc, FRIC

(Analyt. C.) Reader

Welch, A. J. E., PhD, DIC

(Inorg. C.) Reader, Asst. Dir.

Owen, L. N., DSc PhD, FRIC (Org. C.) Reader

Jackman, L. M., MSc PhD *Adel.*

(Org. C.) Reader

Kitchener, J. A., BSc PhD (Phys. C.) Reader

Pollard, A. G., BSc, DIC, FRIC Sr. Lectr.

Roberts, E. R., PhD, DIC, JP Sr. Lectr.

Elvidge, J. A., PhD, DIC Sr. Lectr.

Gordon, M., DSc PhD, FRIC Sr. Lectr.

Herringshaw, J. F., PhD, DIC, FRIC Lectr.

Atkinson, B., PhD BSc, DIC Lectr.

Cornfield, A. H., MSc PhD, DIC, FRIC Lectr.

Rees, L. V. C., BSc PhD Lectr.

Hills, G. J., PhD Lectr.

Gill, Naida, PhD *Syd.* Lectr.

Jacobs, P. W. M., MSc PhD Lectr.

Dalziel, J. A. W., BSc PhD, DIC Lectr.

Barrie, J. A., PhD BSc Lectr.

Evans, D. F., BA DPhil *Oxon.* Lectr.

Waight, E. S., PhD, DIC Lectr.

Poë, A. J., MA BSc Lectr.

Dunne, Anne, MSc Lectr.

Turner, D. W., BSc PhD, DIC Lectr.

Sutherland, J. K., BSc PhD Lectr.

Sharp, D. W. A., MA *Camb.* Lectr.

Pratt, L., BA DPhil *Oxon.* Lectr.

Spiro, M. Lectr.

Cross, A. D., BSc PhD Lectr.

Walkley, J., BSc PhD Asst. Lectr.  
 Hayward, D. O. Asst. Lectr.  
 Pinhey, J. T., MSc *Syd.* Asst. Lectr.  
 Kirby, G. W., MA PhD Asst. Lectr.  
 Lown, J. W., BSc Asst. Lectr.  
 Morrison, G. A., BSc PhD *Glas.* Asst. Lectr.  
 Kerr, I. S., BSc PhD Res. Asst. (Lectr.)  
 Ash, R., MSc *Lond.* Res. Asst. (Lectr.)

### Chemical Engineering and Chemical Technology

Newitt, D. M., MC, DSc PhD, DIC, FRIC, FRS  
 (Chem. E.) Courtaulds Prof., Hd. of Dept.  
 Ubbelohde, A. R. J. P., MA DSc *Oxon.*, FRS (Thermodynamics) Prof.  
 Denbigh, K. G., MA PhD DSc, FRIC (Chem. Engin. Sci.) Prof.  
 Rowlinson, J. S., BSc MA DPhil *Oxon.*, FRIC (Chem. Tech.) Prof.  
 Burgoyne, J. H., DSc PhD, DIC, FRIC (Chem. E.) Reader  
 Hall, G. R., BSc, FRIC (Nuclear Tech.) Reader  
 Wilman, H., PhD DSc, DIC, FIP (Appl. Chem. Phys.) Reader  
 ..... Reader  
 Wilson, M. J. G., PhD BSc, DIC Sr. Lectr.  
 Strickland-Constable, R., MA DPhil *Oxon.* Sr. Lectr.  
 Sargent, R. W. H., BSc PhD Sr. Lectr.  
 Cullis, C. F., MA DPhil *Oxon.*, BSc, FRIC Sr. Lectr.  
 Weinberg, F. J., PhD, DIC Sr. Lectr.  
 Barrett, L. R., MA BSc *Oxon.*, MS III. Lectr.  
 Anderson, G. H., BSc Lectr.  
 Weale, K. E., PhD, DIC Lectr.  
 Bett, K. E., BSc PhD Lectr.  
 Swallow, A. J., PhD *Birm. & Camb.* Lectr.  
 Parry, G. S., PhD Lectr.  
 McCoubrey, J. C., PhD Lectr.  
 Blackman, L. C. F., PhD Lectr.  
 Sawistowski, H., BSc PhD, DIC Lectr.  
 Eisenklam, P., MEngSc *Melb.*, PhD, DIC, FRS Lectr.  
 Long, V. D., BSc PhD, DIC Lectr.  
 Matthews, H. I., OBE, MC, BSc, FLS Sp. Lectr.  
 McLaughlin, E., MSc PhD, DIC Lectr.  
 Hartland, S., BA *Camb.* Lectr.  
 Evans, H. D., BSc PhD (Radiation Hazards) Lectr.

Munday, G., BSc Lectr.  
 Affleck, W. S., BA *Oxon.* Asst. Lectr.  
 Nagle, J. F. M., BSc, DIC Asst. Lectr.  
 Fish, A., BA Asst. Lectr.  
 Mah, R. S. H., BSc Asst. Lectr.

### Engineering, Civil

Skempton, A. W., DSc(Eng), DIC, MICE Prof., Hd. of Dept.  
 ker, A. L. L., DSc(Eng), MICE (Concrete Structures & Technol.) Prof.  
 White, C. M., DSc(Eng) PhD (Fluid Mechanics & Hydraulic Engin.) Prof.

Sparkes, S. R., MSc *Brist.*, PhD, DIC, MICE (Engin. Struct.) Prof.  
 Stephenson, A., OBE, MA *Camb.*, FRIC (Surveying) Reader  
 Flint, A. R., BSc(Eng) PhD (Struct. Steelwork) Reader  
 Bruce, F. E., SM *Harv.*, MSc(Eng), DIC (Pub. Health Engin.) Reader  
 Ashby, R. J., MSc(Eng), DIC Reader  
 Wolf, P. O., BSc(Eng) (Engin. Hydrol.) Reader  
 Bishop, A. W., MA *Camb.*, DSc(Eng) PhD (Soil Mech.) Reader  
 Francis, J. R. D., BSc(Eng) (Fluid Mech.) Reader  
 Brown, E. H., BSc PhD, DIC (Struct. Analysis) Reader  
 Henderson, J. C. de C., DIC (Reinf. Concrete Structures) Reader  
 Chapman, J. C., PhD Sr. Lectr.  
 Henderson, J. C. de C., DIC Sr. Lectr.  
 Henkel, D. J., BSc PhD Sr. Lectr.  
 Ainsworth, H., MA *Camb.* Sr. Lectr.  
 Makowski, Z. S., DipEng *Warsaw*, PhD, DIC Sr. Lectr.  
 Chitty, Letitia, MA, DIC, FRAeS Lectr.  
 Newman, K., BSc(Eng) Lectr.  
 Jowitt Fox, G. T., BE *Sheff.* Lectr.  
 Edwards, A., BSc(Eng) Lectr.  
 Gent, A. R., BSc PhD Lectr.  
 O'Donnell, T., MA *Camb.* Lectr.  
 Agnew, R., PhD *Belf.* Lectr.  
 Ambraseys, N. N., DipIng *Athens*, PhD, DIC Lectr.  
 Munro, J., BSc, DIC Lectr.  
 Cassell, A. C., BSc(Eng), DIC Lectr.  
 Minton, P., BSc(Eng) Lectr.  
 Gibson, R. E., BSc(Eng) PhD, DIC Lectr.  
 Manton, B. G., BSc(Eng), DIC Sp. Lectr.  
 Ashdown, A. J. Res. Asst.

### Engineering, Electrical

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 [from 1/10/61]  
 Gabor, D., DrIng *Berl.*, MIEE, FRS (Appl. Electron. Phys.) Prof.  
 Cherry, E. C., DSc(Eng) (Telecomns.) Prof.  
 Adkins, B., MA *Camb.*, DSc(Eng), MIEE Reader  
 Morris, D. G. O., DSc *Wales* Reader  
 Lamb, J., PhD MSc Reader  
 Westcott, J. H., BSc PhD, DIC Reader  
 Boothroyd, A. R., BSc PhD, DIC Reader  
 Urwin, C. R. Sr. Lectr.  
 Hopkin, D. W. Sr. Lectr.  
 Kayser, H. D., BSc Lectr.  
 Rutenberg, D., BSc Lectr.  
 Prigmore, B. J., MA *Camb.*, MSc, DIC Lectr.  
 Barker, J. R., PhD Lectr.  
 Carpenter, C. J., MSc(Eng) Lectr.  
 Roberts, J., BSc(Eng) Lectr.  
 Blackman, P. F., BSc Lectr.  
 Heasell, E., BSc Lectr.  
 Roberts, A. P., BSc Lectr.

Birss, R. R., PhD *Nott.*  
 Mayne, D. Q., MSc *S.A.*  
 Sayers, B. M., MSc PhD  
 King, R. A., MA  
 Cory, B. J., BSc(Eng)  
 Jones, D., MA PhD  
 Allen, P. H. G., BSc(Eng)  
 Gundry, P. M., BSc PhD  
 Ghosh, D. H., BSc(Eng)  
 Das, M. B., MSc  
 Bates, J. J., BSc PhD

### Engineering, Mechanical

Saunders, O. A., MA *Camb.*, DSc(Eng),  
 MIMechE, FRAES, FIP, FRS  
 Prof., Hd. of Dept.  
 Ford, H., DSc(Eng) PhD, MIMechE  
 (Appl. Mech.) Prof.  
 Neal, B. G., MA PhD *Camb.*  
 (Appl. Sci. with sp. ref. to Engin.) Prof.  
 Kay, J. M., MA PhD *Camb.*  
 (Nuclear Power) Prof.  
 Spalding, D. B., MA *Oxon.*, PhD *Camb.*  
 (Heat Transfer) Prof.  
 Glaister, E. E., PhD MSc(Eng), DIC Reader  
 Grant, P. J., PhD *Camb.* (Engin. Sci.) Reader  
 Martin, B. W., PhD *Durh.*, MSc *Brist.*  
 (Appl. Thermodyn.) Reader  
 Moore, N. P. W., BSc(Eng), DIC Reader  
 Eilon, S., DiplIng *Haifa*, PhD, DIC  
 (Production Engin.) Reader  
 Alexander, J. M., PhD, DIC (Plasticity) Reader  
 Hoyle, R. D., BA *Camb.*, PhD Reader  
 Grootenhuys, P., BSc(Eng) PhD, DIC Reader  
 Chalk, J. T., MSc, DIC Sr. Lectr.  
 James, J. W., PhD, DIC Sr. Lectr.  
 De Malherbe, M. C., PhD, DIC Sr. Lectr.  
 Turner, C. E., BSc(Eng) PhD Sr. Lectr.  
 Treharne, T. L. G., BSc(Eng) Lectr.  
 Cole, E. H., BSc(Eng) Lectr.  
 Shelton, A., BSc(Eng) PhD, DIC Lectr.  
 Cameron, A., PhD Lectr.  
 Singham, J. R., PhD BSc(Eng) Lectr.  
 Brewer, R. C., BSc(Eng) Lectr.  
 Lewis, J. C., BSc(Eng) Lectr.  
 Taylor, R. G., BSc PhD Lectr.  
 Wood, W. G., BSc PhD Lectr.  
 Ogorkiewicz, R. M., MSc(Eng), DIC Lectr.  
 Vaux, R., BEng *Liv.* Lectr.  
 Swanson, S. A. V., BSc(Eng) PhD Lectr.  
 Strickland, R. E., BA Lectr.  
 Benham, P., MSc *Belf.* Lectr.  
 Peerless, S. J., BSc(Eng) Lectr.  
 Ellis, F., BSc(Eng) Lectr.  
 Solomon, P. J. B., BSc(Eng), DIC Lectr.  
 Hill, B. J., MSc Lectr.  
 Culver, L. E., BSc(Eng) Lectr.  
 James, C. G., PhD BA Lectr.  
 Martin, D. G., BSc MASc *W.Ont.* Lectr.  
 Smith, R. T., BSc Lectr.  
 Hall, R. I., BSc, DIC Lectr.  
 King, J. R., BSc, DIC Lectr.  
 Thieme, H. C. A., BSc(Eng) †Sp. Lectr.  
 Jacobs, B. E. A. Asst. Lectr.  
 Baker, P. J., BSc Asst. Lectr.

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Geochemistry, Applied

Webb, J. S., BSc PhD, DIC Reade  
 Butler, J. R., BA PhD Lectr.  
 Tooms, J. S., BSc PhD, DIC Res. Fellow  
 Stanton, R. E. Res. Fellow

### Geology

Williams, D., DSc PhD BEng *Liv.*, DIC,  
 FGS (Mining Geol.) Prof., Hd. of Dept  
 Sutton, J., BSc PhD, DIC (Geol.) Prof  
 Wilson, G., MSc PhD, DIC, FGS  
 (Struct. G.) Reade  
 Reade

.....  
 Hobson, G. D., PhD, DIC (Oil Technol.) Reade  
 (Oil Technol.) Reade  
 Blyth, F. G. H., PhD, DIC, FGS (Engin. G.) Reade  
 Millman, A. P., BSc PhD, DIC (Mining Geol.) Reade  
 Ager, D. V., BSc PhD, DIC (Pure G.) Reade  
 Coomber, S. E., BSc, DIC Sr. Lectr.  
 Thomas, G., BSc PhD, DIC Lectr.  
 Carter, D. J., DFC, BSc Lectr.  
 Shearman, D. J., BSc, FGS Lectr.  
 Walker, G. P. L., MSc PhD Lectr.  
 Skiba, W., BSc PhD Lectr.  
 Fothergill, C. A., BSc PhD, DIC Lectr.  
 Ramsay, J. G., PhD BSc, DIC Lectr.  
 Carmichael, I. S. E., MA *Camb.* Lectr.  
 Croasdale, R., PhD *Manc.* Lectr.  
 Holwill, F. W., BSc Lectr.  
 Knill, J. L., BSc PhD Lectr.  
 Dixon, C. J., BSc Lectr.  
 Evans, G., BSc Lectr.  
 Gray, I. M., BSc Asst. Lectr.

### Geophysics, Applied

Bruckshaw, J. M., MSc PhD, DIC Prof  
 Mason, R. G., MSc PhD, DIC Lectr.  
 Hall, S. H., MSc PhD, DIC Lectr.  
 Taylor-Smith, D., BSc PhD, DIC Lectr.

### Mathematics

Jones, H., PhD *Leeds & Camb.*, FRS  
 Prof., Hd. of Dept  
 Barnard, G. A., MA *Camb.* (Stats.) Prof  
 Hayman, W. K., MA ScD *Camb.*,  
 FRS (Pure M.) Prof  
 Roth, L., MA *Camb.* (Pure M.) Reade  
 Whitrow, G. J., MA DPhil *Oxon.*  
 (Appl. M.) Reade  
 Jones, C. W., PhD *Camb.*, MSc *Liv.*  
 (Appl. M.) Reade  
 Scorer, R. S., MA *Camb.*, PhD  
 (Appl. M.) Reade  
 Wohlfarth, E. P., DSc PhD, FIP  
 (Appl. M.) Reade  
 Jaswon, M. A., MA *Dub.*, PhD *Birm.* Reade  
 Winsten, C. B., MA *Camb. & Oxon.*  
 (Stats.) Reade  
 Raimes, S., PhD DSc, DIC Reade  
 Hatley, A. J., MA Sr. Lectr.  
 Lloyd, E. H., BSc PhD, DIC Sr. Lectr.  
 Preidel, E. E., MSc, DIC Lectr.

Talbot, A., MA <i>Camb.</i> , PhD	Lectr.	Thomas, T. L., MBE, BSc PhD	Sr. Lectr.
Mautner, A. J., BSc	Lectr.	Jennings, H., BSc(Eng)	Lectr.
Hepner, W. A., PhD <i>Edin.</i>	Lectr.	Blyth, H. N., BA, FRIC	Lectr.
Gordon, A. N., MSc PhD	Lectr.	Bray, J. W., BSc PhD	Lectr.
Fairbrother, H., MSc	Lectr.	Ottley, D. J., BSc(Eng)	Lectr.
Wagner, A., MA <i>Oxon.</i> , PhD	Lectr.	Stepec, W. A., DiplEng(Min)	Lectr.
Burnett-Hall, D. G., MA <i>Camb.</i>	Lectr.	Mellgren, O., ScD <i>M.I.T.</i> , DipTech <i>T.H.</i>	
Jenkins, G. M., BSc PhD (on leave)	Lectr.	<i>Trondheim</i>	Lectr.
Kovári, T., PhD	Lectr.	Grierson, A., BSc(Eng)	Lectr.
Michaelson, S., BSc	Lectr.	Cohen, E., MSc PhD	Lectr.
Tanner, Mrs. Rosalind C. H., PhD	Lectr.	Dallender, J. A., BSc(Eng)	Lectr.
Austin, M. C., BSc	Lectr.	Sutton, D., BSc(Eng)	Lectr.
Thompson, R. S. H. G., BSc	Lectr.	Prosser, A. P., BSc PhD, DIC	Lectr.
Dowker, Mrs. Yael N., MA <i>Johns H.</i> , PhD <i>Harv.</i>			

Stephenson, G., PhD BSc, DIC	Lectr.
Hochberg, S., PhD BSc	Lectr.
Hall, G. G., PhD BSc	Lectr.
Penrose, O., PhD BSc	Lectr.
Clunie, J. G., PhD BSc (on leave)	Lectr.
Hunt, J. N., PhD, DIC	Lectr.
Adler, J., MSc PhD	Lectr.
Hum, D. M., BSc, DIC	Lectr.

### Metallurgy

Ball, J. G., BSc, FIM	Prof., Hd. of Dept.
Richardson, F. D., DSc PhD, FIM	Prof.
Fisher, M. S., DSc PhD	Reader
Pratt, P. L., BSc PhD <i>Camb.</i> (Phys. M.)	Reader
Bradshaw, A. V., BSc (Extract. M.)	Reader
Harris, R. H., BSc(Eng)	Sr. Lectr.
Tweddale, J. G., FIM	Lectr.
Thomas, D. L., BSc <i>Wales</i> , PhD	Lectr.
Bell, R. L., BSc PhD	Lectr.
Bailey, A. R., MSc (Engin. M.)	Lectr.
Selge, F. L., FRIC	Lectr.
West, D. R. F., PhD BSc, DIC	Lectr.
Pantony, D. A., PhD BSc, FRIC	Lectr.
Sawyer, H. D., BSc	Lectr.
Alcock, C. B., BSc PhD, DIC	Lectr.
Burkin, A. R., PhD MSc, FRIC	Lectr.
Crane, F. A. A.	Lectr.
Johnson, A. A., MA BSc	Lectr.
Leach, J. S. L., BSc PhD	Lectr.
Hills, A. W. D., BA <i>Camb.</i>	Lectr.
Tomlinson, J. W., PhD, DIC	Res. Fellow

### Meteorology

Sheppard, P. A., BSc, FIP	Prof., Hd. of Dept.
Eady, E. T., BA <i>Camb.</i> , PhD	
	(Phys. Climatol.) Reader
Ludlam, F. H., DIC	Reader
.....	(Phys. Oceanog.) Reader
Green, J. S. A., BSc	Lectr.
Hallett, J., BSc <i>Brist.</i> , PhD	Lectr.

### Mining

Mitcheson, J. C., CBE, BSc <i>Birm.</i> , FGS	
	Prof., Hd. of Dept.
Sheppard, J. S., OBE, BSc(Eng)	Reader
Pryor, E. J., DIC	Reader
Allen, G. K., BME <i>Melb.</i>	Reader
Fleming, M. G., BSc PhD	Reader

### Physics

Blackett, P. M. S., MA <i>Camb.</i> , FRS	
	Prof., Hd. of Dept.
Wright, W. D., DSc, DIC	(Tech. Optics) Prof.
McGee, J. D., OBE, MSc <i>Syd.</i> , PhD <i>Camb.</i> , FIP	(Instrument Technol.) Prof.
Butler, C. C., PhD BSc	Prof.
.....	(Solid State Phys.) Prof.
Blackman, M., MSc <i>S.A.</i> , PhD <i>Gött.</i> & <i>Lond.</i> , DIC	(Phys.) Prof.
Salam, A., MA PhD, FRS	
	(Theoret. Phys.) Prof.
Elliot, H., PhD MSc <i>Manc.</i>	(Phys.) Prof.
Wynn-Williams, C. E., PhD <i>Camb.</i> , MSc <i>Wales</i> , DSc	Reader
Pearse, R. W. B., DSc PhD, DIC, FIP	(Spectroscopy) Reader
Klemperer, O., PhD <i>Berl.</i>	Reader
Johnson, B. K., DIC	(Tech. Optics) Reader
Stephens, R. W. B., PhD, DIC, FIP	(Acoustics) Reader
Wilcock, W. L., BSc PhD <i>Manc.</i>	
	(Instrument Technol.) Reader
Clegg, J. A., PhD BSc <i>Manc.</i> , FIP	Reader
Latham, R., MA <i>Camb.</i> , PhD	
	(High Temp. Phys.) Reader
Garton, W. R. S., BSc	(Spectroscopy) Reader
Hopkins, H. H., PhD, DIC, FIP	
	(Optics) Reader
Matthews, P. T., MA PhD	
	(Theoret. Phys.) Reader
Allan, H. R., MA <i>Camb.</i> , PhD	Sr. Lectr.
Barford, N. C., MA <i>Camb.</i> , BSc	Sr. Lectr.
Welford, W., PhD BSc	Sr. Lectr.
Newth, J. A., BA BSc	Sr. Lectr.
Coles, B. R., DPhil <i>Oxon.</i> , BSc <i>Wales</i>	Sr. Lectr.
Goldsack, S. J., BSc PhD	Sr. Lectr.
Kellner, Charlotte, PhD	Lectr.
Aharoni, J., PhD <i>Berl.</i>	Lectr.
Butterworth, I., BSc PhD	Lectr.
Lisgarten, N. D., BSc PhD, DIC	Lectr.
Carman, E. H., MSc PhD	Lectr.
Twiddy, N. D., PhD	Lectr.
Wheeler, C. B., BSc	Lectr.
Astbury, J. P., MA MSc PhD	Lectr.
Pain, H. J., MSc	Lectr.
Folkierski, A., PhD	Lectr.
Thorne, Lady Anne, MA DPhil <i>Oxon.</i>	Lectr.
Parfitt, G. G., BSc PhD, DIC	Lectr.
Mandel, L., PhD	Lectr.
Stubbs, P. H. S., BSc	Lectr.



Wilson, R. L., MSc  
 French, B. R., BSc  
 Taylor, J. C., BA *Camb.*, PhD  
 Quenby, J., PhD, DIC  
 Binnie, D. M., BSc PhD  
 Haines, M. G.  
 Bradley, D. J., BSc

Lectr. Goto, H. E., BSc  
 Lectr. Southwood, T. R. E., BSc PhD  
 Lectr. Blackith, R. E., BSc PhD  
 Lectr. Siddorn, J. W., BSc  
 Lectr. Wilson, Mrs. Elizabeth, BSc PhD, DIC  
 Lectr. Lewis, C. T., MA PhD  
 Lectr. Call, F., PhD BSc  
 Lectr. Hague, N. G., BSc  
 Lectr. Dempster, J. P., BSc PhD, DIC  
 Lectr. Mahon, June, DSc *Neuchâtel*, BSc

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

Asst. Lectr.

### Zoology and Applied Entomology

Richards, O. W., MA DSc *Oxon.*, FRS  
 Prof., Hd. of Dept.  
 Peters, B. G., MSc *Brist.*, PhD (Parasitol.) Prof.  
 Hewer, H. R., MSc, DIC  
 Page, A. B. P., PhD  
 Way, M. J., MA  
 Brown, Mrs. Lille E., PhD BSc  
 Murray, D. R. P., MA PhD *Camb.*  
 Gorvett, H., PhD *Brist.*  
 Waloff, Nadejda, PhD  
 Davies, R. G., MSc, DIC  
 Higgins, A. E. H., DIC  
 Kermack, Doris M., BSc PhD, DIC  
 Boratynski, K., PhD *Poznan*

Reader  
 Reader  
 Reader  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### AGRICULTURAL RESEARCH COUNCIL UNIT OF PLANT PHYSIOLOGY

Porter, Prof. H. K., DSc, DIC, FRS  
 Dir  
 Research Staff  
 Keys, A. J., PhD  
 Martin, R. V.  
 Ellis, R. J., BSc  
 Mer, C. L., PhD  
 Bird, I. F., BSc

## ADMINISTRATIVE AND OTHER STAFF

ADMINISTRATIVE OFFICERS. Dep. Registrars :  
 E. G. S. Hollings ; J. Taylor, BSc(Econ). Supt.  
 of Vacation Studies : A. G. E. Meacock. Gen.  
 Studies Sec. : C. K. McDowall, BA *Oxon.* Asst.  
 Financial Sec. : E. Fairhurst, MA *Oxon.* Ac-  
 countant : F. W. G. Annas. Supplies Officer :  
 R. J. K. Harley. Planning Officer : C. C. Moore,  
 MA *Camb.* Construction Officer : P. E. Mee,  
 BSc(Econ). Maintenance Officer : A. C. Single-  
 ton. Asst. Maintenance Officer : T. H. Lewis.

MEDICAL OFFICER. C. Grey, MB BCh *Oxon.*

SENIOR TUTORS. Royal College of Science :  
 E. R. Roberts, PhD, ARCS DIC, JP. Royal  
 School of Mines : H. N. Blyth, BA, FRIC  
 City and Guilds College : A. Stephenson, OBE,  
 MA. Women Students : Lady Anne Thorne,  
 MA DPhil *Oxon.*

WARDENS. Beit Hall, F. G. Irving, MEng,  
 DIC ; Selkirk Hall, C. C. Seaford, MC, BA  
*Oxon.* ; Weeks Hall, J. F. Levy, BSc.

## GENERAL INFORMATION

The coll. was founded by royal charter in 1907  
 'to give the highest specialized instructn. and  
 to provide the fullest equipment for the most  
 advanced trg. and res. in various branches of sci.,  
 especially in its applicn. to industry'. It is a  
 federation of 3 instns. of earlier origin—the  
 Royal Coll. of Science, the Royal Sch. of Mines  
 and the City and Guilds Coll. The coll. was  
 admitted as a sch. of the Univ. of London in 1908.

The three constituent colls. have kept their  
 identity, and, closely linked within the Imperial  
 Coll. framework, they divide the work of the  
 Imperial Coll. between them. The Royal Coll.  
 of Science conducts the work in pure scis. :  
 chem., phys., maths., bot., zool., geol. and  
 meteorol. ; the Royal Sch. of Mines concentrates  
 on mining, mineral dressing, metall., mining geol.,  
 oil technol. and appl. geophys. ; the City and  
 Guilds Coll. is concerned with the main branches  
 of engin. : aeronaut., chem., civil, electr. and  
 mech.

The coll. was selected in 1953 to be the spear-

head of the national attack on the problem of pro-  
 viding more univ.-trained scientists and engineers.  
 The coll. agreed to double its size, to provide for  
 3000 students and to carry out this operation in  
 10 yrs. By the beginning of the session 1959-60  
 student numbers had risen to a total of 2665 and  
 over 40 new posts as prof. or reader in the Univ.  
 of London had been establd. and filled at the coll.

The main academic devel. is taking place on  
 the 16-acre site bounded by Queen's Gate, Prince  
 Consort Rd., Exhibition Rd. and Imperial Insti-  
 tute Rd. The expansion plan involves major new  
 bldgs. and many alterations and adaptations in  
 those existing. The first new bldg., to house the  
 depts. of aeronautics and chem. engin., was  
 opened in 1957, while 2 further projects, a new  
 bldg. for phys. and the first section of a very large  
 new mech. engin. block, were completed and  
 occupied during the session 1959-60. New bldgs.  
 for the depts. of civil engin. and electr. engin. as  
 well as the second stage of the new mech. engin.  
 block are in the course of constructn., and are

scheduled for completion in the session 1961-62. A large scheme for new halls of residence was made possible by the acquisition in 1956 of the neighbouring Prince's Gdns. The first new hall, provided through the generosity of Messrs. Vickers Ltd., was opened in Sept. 1959, and, on the south side of Prince's Gdns., work is now in progress on 4 more halls and gen. refectory facilities which are due for completion in the summer of 1962.

**ADMINISTRATION.** The admin. of the Imperial Coll. is vested in a governing body of 52 members representing the crown, the self-governing countries of the commonwealth, the Minister of Educn., the Univ. of London, the London County Council, the City and Guilds of London Inst., the Royal Commissioners for the Exhibition of 1851, the Royal Society, the teaching staff of the Imperial Coll., and professional socs. The rector of the Imperial Coll. and the deans of the 3 constituent colls. are members *ex officio*.

**LIBRARIES.** 180,000 vols. Each dept. has a sp. library (those of the engin. depts. are incl. in the Unwin library). The Haldane library (incorporating the students' union library) provides books of a more general nature. In addn. the library of the Science Museum is available for the use of students.

Large FIELD STATION at Silwood park nr. Ascot; MINE at Tywarnhale nr. Truro.

**INCOME (1958-59).** Total income: £2,059,610 (govt. grants, 74 per cent.; self-balancing res. contracts, 15 per cent.; fees, 7 per cent.; other sources, 4 per cent.).

**ADMISSION.** See p. 965 and Appendix II. The conditions of admission are in accordance with univ. requirements and the procedure is in general accordance with the recent recommendations of the Cttee. of Vice-Chancellors and Principals; as regards addnl. requirements for entry to specific degree subjects, the coll. has laid down a preference for certain subjects; details in coll. prospectus.

The min. age for admission is 17. Women are admitted on the same terms as men.

**FIRST DEGREES (of Univ. of London) AND DIPLOMAS.** The same courses and exams. serve for the coll. associateship and for the BSc (spec.) or BSc(Eng) degree of the Univ. of London. Courses for degrees with honrs. (each 3 yrs.) are as follows: BSc (spec.) and ARCS in bot., chem., geol., maths., phys., zool.; BSc (spec.) and ARSM in mining geol., oil technol.; BSc(Eng) and ARSM in metall., mining, mineral dressing; BSc(Eng) and ACGI in aeronaut. engin., chem. engin., civil engin., electr. engin., mech. engin.

A *prelim. science year* has been introduced for those who have done well in arts subjects at sch. but wish to change to sci. or engin.; this is a sp. course in chem., phys. and maths. enabling students to enter one of the hon. courses after 1 yr.; for admission, candidates must have qualified for

univ. entrance and have passed in at least 2 arts subjects at advanced level and maths. at ordinary level.

**HIGHER DEGREES (of Univ. of London) AND DIPLOMAS.** Courses of res. and advanced study open to grads. of other univs. and leading to the PhD in a min. of 2 calendar yrs. from BSc, to the MSc and also to the DIC, are given in the following depts. and sub-depts. of the coll.: aeronautics (aerodynamics, aeronaut. structures and aircraft propulsion); bot. & plant technol. (bacteriol., biochem., microbiol., plant pathol., plant physiol.); chem. engin. and chem. technol. (chem. engin. sci., combustion, fuel, high pressure, low temperature, ceramic & nuclear technols., chemical phys.); chem. (agric., food & drugs, analyt., inorg., org., phys.); civil engin. (concrete technol., engin. hydrol., highways, hydraulic engin. & fluid mechanics, hydro power, pub. health, soil mechanics, struct. engin.); electr. engin. (appl. electron. phys., automatic control systems, communics. & electronics, electr. machines & power systems, electr. traction); geol. (appl. geophys., engin. geol., geochem., micropalaeontol. & palaeo-ecol., mining geol., mineral exploration, oil technol., petroleum reservoir engin.); maths. (mathl. phys., pure maths., appl. maths., stats., numerical analysis); mech. engin. (appl. mechanics, gas turbine technol., heat transfer & combustion, nuclear power, prodn. engin.); metall.; meteorol.; mining (mining, mineral dressing); phys. (theoret. phys., instrument technol., spectroscopy, tech. optics, high temperature phys., cloud phys.); zool. & appl. entomol. (entomol., appl. entomol., parasitol., nematol.).

Postgrad. courses open to grads. of other univs. and leading to the DIC normally in 1 yr. from BSc and in some cases to the MSc are given in: aeronautics; bot. and plant technol. (microbiol., plant pathol.); chem. engin. (chem. engin., chem. technol., indust. safety, nuclear technol. (chem.)); chem. (agric. chem., analytical chem., analysis of food, drugs & water); civil engin. (struct. engin., concrete technol., hydro-power engin., engin. hydrol., highway engin., pub. health engin., soil mechanics); electr. engin. (electr. machines & power systems, communics. & electronics, automatic control systems & allied subjects, appl. electron. phys., electr. traction); geol. (engin. geol., micropalaeontol. & palaeo-ecol., mineral exploration, appl. geophys., petroleum reservoir engin.); maths. (mathl. phys., pure maths., appl. maths., numerical analysis, stats.); mech. engin. (appl. mechanics, gas turbine technol., heat transfer & combustion, nuclear power, prodn. engin.); meteorol.; mining; phys. (tech. optics, photo-electronics); zool. (appl. entomol., nematol.).

**Other postgrad. studies.** In collaboration with L.S.E. the coll. arranges postgrad. studies in technol., econ. and admin.

**ASSOCIATIONS WITH OTHER INSTNS.** An arrangement has been made for the exchange of staff and students with the Swiss Federal Inst. of Technol.,

Zürich; and for exchange studentships with the Techn. Hochschule Aachen, and the Techn. Univ. of Berlin, Charlottenburg. The Massachusetts Inst. of Technol. also stands in special relationship to the coll.

**FEES.** Registration (undergrad.), £2; entrance (postgrad.), £2; tuition, undergrad. and postgrad. res. and courses (incl. union membership): sci. and engin., £64 p.a. (postgrad. course in nuclear power, £124 p.a.).

**ACADEMIC YEAR.** Oct. to June, 3 terms of 10 wks. each.

**SCHOLARSHIPS.** Royal scholps., entrance scholps. and exhibitions for undergrad. courses awarded on an exam. held at schs.; sp. scholps. available in mining. Entrance and I.C.I. transfer scholps. available for those taking the prelim. sci. yr.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**APPOINTMENTS BOARD.** The coll. appts. bd. assists associates and members of the coll. to find employment on the completion of their coll. courses.

**GRADUATES' ASSOCIATIONS.** Each constituent coll. has its own old students' assocn., namely, the Royal Coll. of Science Assocn., the Royal Sch. of Mines Assocn. and the Old Centralians Assocn. The latter perpetuates the original name of the City and Guilds Coll. and has branches in many parts of the world.

**RESIDENCE.** Beit Hall, Prince Consort Rd., London, S.W.7 (tel.: Kensington 5111), for 96 men, 17 women; fees, £50-£60 p.a. Weeks Hall, Prince's Gdns., London, S.W.7, for 67 men; fees, £66 p.a. Garden Hall, 12 Prince's Gdns., London, S.W.7 (tel.: Knightsbridge 7466), for 26 men; fees, £50-£53 p.a. Catering is available for residents of these halls in Imperial Coll. refectories at a cost of about 9s. per day. In addn.,

Selkirk Hall, 50 Holland Park, London, W.11 (tel.: Park 7041), accommodates 15 students. All enquiries to the clerk for the halls of residence, Imperial Coll., Prince Consort Rd., S.W.7.

**STUDENT HEALTH SERVICE.** The coll. health room at 13 Prince's Gdns. has 2 full-time nurses and a doctor attends during certain hours each day. Non-European students are required to undergo a med. exam. on entry to the coll.

**STUDENTS' UNION.** The Imperial Coll. union bldg. in Prince Consort Rd. is the home of various students' orgns. incl. the Imperial Coll. union, the Royal Coll. of Science union, the Royal Sch. of Mines union and the City and Guilds Coll. union. Accommod. includes refectories, reading rooms, cttee. rooms, a concert hall and a gymnasium. The coll. bookstall is in the Beit bldg., adjoining the union.

The Imperial Coll. union, guided by the union council, whose members are mainly present students, looks after the leisure side of the student's life and controls and encourages the clubs and socs., about 100 in all, which among them cover all sides of athletic and soc. activities.

**PUBLICATIONS.** *Calendar* (5s.); *Prospectus*; *Postgrad. Courses* (2s.); individual pamphlets on postgrad. courses; *Careers Pamphlets*; *Annual Report*; *Res. Reports* of the three constituent colls., the Royal Coll. of Science, the Royal Sch. of Mines and the City & Guilds Coll. (publ. by the colls. in turn, each coll. issuing a report every 3rd yr.); *Inaugural Lectures*, 1955 and 1956 (on applicn. to registrar), 1957 to date (on sale through Modern Book Co. Ltd., 19 Praed St., W.2); *Code of Practice against Radiation Hazards* (2s.); *Annual Report of vacation trg. cttee.*; *A Short History of the Coll. 1845-1945* (publ. on the occasion of the centenary of the Royal Coll. of Chemistry); *The Royal Charter of the Imperial Coll. of Sci. and Technol.* (publ. on the occasion of the charter jubilee, 1957).

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** See p. 1002.

**NEW DEPARTMENTS AND CHAIRS.** Conferred titles of prof. of phys.: M. Blackman; prof. of phys. chem.: F. C. Tompkins.

**RETIREMENT.** H. E. Park (electr. engin.).

**RESIGNATIONS.** Prof. P. V. Danckwerts (chem. engin.), apptd. Shell prof. of chem. engin., Camb.; H. Charnock (meteorol.), to NATO appt.; J. A. Kingston (chem.), to Morgan Crucible Co.; K. W. H. Foulds (electr. engin.), to Battersea Coll. of Technol.; Mrs. F. Leasman (maths.).

**DEATHS.** Sir Henry Tizard (late rector, Imperial Coll.); Sir Alfred Egerton (late professor of chem. technol. and sr. res. fellow); Sir Ian Heil-

born (late prof. of org. chem.); Dr. A. Morley Davies (asst. prof. in geol. until retirement); F. W. James (coll. librarian).

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	<i>Full-Time Part-Time</i>	
Men . . .	2553	101
Women . . .	112	4
Total . . .	2665	105

**Distribution by Faculties.** *Engin.*, 1474; *sci.*, 1191. Total: 2665.

Included in the full-time student numbers above are :—

Postgraduate students, 982.

New admissions, 987.

Students from other countries, 561. (Countries from which largest numbers came : India, 104 ; Canada, 63 ; Pakistan, 46 ; S. Africa, 25).

DEGREES AWARDED (by Univ. of London)

(1958–59). *Engin.* : BSc(Eng), 250 ; MSc(Eng), 16 ; PhD, 35 ; DSc, 2. *Sci.* : BSc, 199 ; MSc, 6 ; PhD, 91 ; DSc, 4. Total number of first degrees awarded, 449.

DIPLOMAS, ETC., AWARDED (1958–59). *Engin.* : ARSM, 35 ; ACGI, 212 ; DIC, 222. *Sci.* : ARSM, 8 ; ARCS, 182 ; DIC, 132.

[Information compiled as at 18/8/60]

## KING'S COLLEGE

Founded 1829

Postal Address : Strand, London, W.C.2, England

Telephone : Temple Bar 5454

CHAIRMAN OF THE DELEGACY—The Hon. Sir ARTHUR J. P. HOWARD, KBE, CVO

TREASURER—Sir ANGUS GILLAN, KBE, CMG, MA *Oxon.*

PRINCIPAL—P. S. NOBLE, MA *Aberd. & Camb.*, Hon. LLD *Aberd.*

DEAN—Rev. Canon S. H. EVANS, MA BD *Durh.*

SECRETARY—I. P. SHAW, MA *Oxon.*

LIBRARIAN—K. GARSIDE, MA *Leeds*

REGISTRAR—J. T. COMBRIDGE, MA *Camb.*

## TEACHING STAFF

[†=Part-Time]

### Anatomy, Descriptive and Surgical

Nicol, T., DSc *Glas. & Lond.*, MD *Glas.*,  
FRCS, FRCSEd Prof.  
Wakeley, Sir Cecil, Bt., KBE, Hon. LLD *Glas.*,  
DSc, FRCS, FRCSEd †Lectr.  
Bilbey, D. L. J., TD, MB BS PhD Reader  
McMinn, R. M. H., MD *Glas.*, PhD *Sheff.*  
Reader  
Mackinnon, I. L., MB ChB *N.Z.* Sr. Lectr.  
Charles, L. M., BSc MB BCh *Wales* Lectr.  
Cordingley, J. L., MB BS *Syd.* Lectr.  
Broad, C. P., MB BS Lectr.  
Dale, C. C. H., MB BS Lectr.  
Dummer, W. F. Lectr.  
Cooper, D. W. G., BA BM BCh *Oxon.* Lectr.  
Curson, I., BDS Lectr.  
(Sp. Dental Anat. & Histol.) †Lectr.  
Kennedy, J. A., MB BS (Radiol. Anat.) Lectr.

### Biochemistry

Harris, H., MA MD *Camb.* Prof.  
Bell, E. A., BSc *Durh.*, MA PhD *Dub.* Lectr.  
Darbre, A., BSc PhD *Birm.* Lectr.  
Blau, K. H. F., BSc PhD Lectr.  
Spencer, N., BSc *Leeds*, PhD Lectr.

Biology, see Bot., also Zool.

### Biophysics, see Phys.

### Botany

Bennet-Clark, T. A., MA *Dub.*, PhD *Camb.*,  
FRS Prof.  
Sutcliffe, J. F., PhD *Leeds*, DSc Reader  
Metcalf, G., MA PhD *Camb.* Lectr.  
Carpenter, J., BA *Camb.* Lectr.  
Symonds, Kathleen V., BSc PhD Lectr.  
Wilkins, M. B., BSc PhD Lectr.  
Clark, Jessie E., BSc *Durh.*, PhD Asst. Lectr.

### Chemistry

Hey, D. H., MSc *Wales*, DSc *Manc.*,  
PhD, FRIC, FRS Daniell Prof.  
Style, D. W. G., BSc PhD Prof.  
Robertson, A. J. B., MA PhD *Camb.*  
(Phys. C.) Reader  
Gold, V., DSc (Phys.-Org. C.) Reader  
Crombie, L., DSc, FRIC (Org. C.) Reader  
Dolley, L. G. F., TD, BSc PhD Sr. Lectr.  
Beattie, I. R., BSc PhD Lectr.  
Hulme, R., BSc MA *Oxon.*, FRIC Lectr.  
Cadogan, J. I. G., BSc PhD Lectr.  
Rees, C. W., BSc PhD Lectr.  
Satchell, D. P. N., BSc PhD Lectr.  
Coe, J. S., MSc PhD Lectr.

Peacock, T. E., BSc PhD *Durh.*  
Perkins, M. J., BSc

Asst. Lectr.  
Asst. Lectr.

### Classics, see also Hist., Anc.

Maguinness, W. S., MA *Dub.* (Lat.) Prof.  
Winnington-Ingram, R. P., MA *Camb.*,  
FBA (Gk.) Prof.  
Handford, S. A., MA *Oxon.* Reader  
Gossage, A. J., MA *Oxon.*, PhD Lectr.  
Hainsworth, J. B., MA *Oxon.* Lectr.  
Courtney, E., BA *Dub.*, MA *Oxon.* Asst. Lectr.  
Redmayne, Mrs. Brenda J., BA *Camb.* Asst. Lectr.  
Lintott, A. W., BA *Oxon.* Asst. Lectr.

### Divinity

Nineham, D. E., MA *Oxon.* Prof.

### Ecclesiastical History

Dugmore, C. W., MA DD *Oxon.* Prof.  
Collinson, P., MA *Camb.*, PhD Asst. Lectr.

### Education

Judges, A. V., BA DSc(Econ) (Hist. of E.) Prof.  
Beales, A. C. F., MA Reader  
Blackwell, Mrs. Annie M., BSc MA Sr. Lectr.  
Brown, P. P., BA *Oxon.* Sr. Lectr.  
King, E. J., MA *Manc.*, PhD Lectr.  
Wakeford, Mrs. Dorothy A., BA Lectr.  
Murray, Mrs. Freda M., BSc Lectr.  
Parish, E. Laura, MA Lectr.

### Engineering, Chemical

Watkins, S. B., MSc *Wales*, FRIC  
Sr. Lectr., Dir. of Studies  
Morris, D. R., BSc *Birm.*, PhD Lectr.

### Engineering, Civil

Ross, A. D., BSc PhD *Edin.*, MICE (Civil E.) Prof.  
Nash, J. K. T. L., MAI MA *Dub.* Reader  
Zarek, J. M., BSc *St. And.*, PhD Sr. Lectr.  
Kenn, M. J., MASc *Tor.*, BSc(Eng) Lectr.  
Jenkins, W. McL., BSc PhD *Glas.* Lectr.  
Dixon, R. K., BSc(Eng) Lectr.  
Illston, J. M., BSc(Eng) Lectr.  
England, G. L., BSc(Eng) Asst. Lectr.

### Engineering, Electrical

Greig, J., PhD *Birm.*, MSc(Eng), MIEE Siemens Prof.  
Arnold, A. H. M., PhD DEng *Liv.* Prof.  
Clarke, H. M., TD, MSc, MIEE Sr. Lectr.  
Fraser, W., BSc(Eng) Lectr.  
Platt, G. H., MAScTech *Manc.* Lectr.  
Deeley, E. M. S., BSc PhD Lectr.  
Freeman, E. M., BSc(Eng) Asst. Lectr.

### Engineering, Mechanical

Kastner, L. J., MA *Camb.*, MSc *Manc.*,  
MIMEchE Prof.

Rose, H. E., PhD *Manc.*, DSc(Eng),  
MIMEchE

Williams, T. J., MSc *Birm.*, BSc PhD Reader  
Gosney, W. B., BSc(Eng) Reader  
Powell, E. J., BSc(Eng) Lectr.  
Smith, A. A., MA PhD *Camb.* Lectr.  
Pattison, R., BSc(Eng), MIMEchE Lectr.  
White, D. J., BSc PhD *Brist.* Lectr.

### English Language and Literature

Bullough, G., MA *Manc.* Prof.  
Garmonsway, G. N., MA *Camb.*, FSA (E. Lang.) Prof.  
Crow, J. W., MA *Oxon.* Lectr.  
Sheard, J. A., BA PhD (Philol.) Lectr.  
Armstrong, W. A., MA *Sheff.*,  
PhD *Yale* (E. Lit.) Lectr.  
Yarker, P. M., MA Lectr.  
Mutter, R. P. C., MA *Oxon.* Lectr.  
Hill, R. F., BLitt *Oxon.*, BA Lectr.  
Waldron, R. A., MA Lectr.  
Mottram, E. N. W., MA *Camb.* (American Lit.) Lectr.  
Pearsall, D. A., MA *Birm.* Asst. Lectr.  
Fison, J. P., BA *Oxon.* Asst. Lectr.  
Shaw, P., BA Asst. Lectr.

### French

Cocking, J. M., MA I f.  
Hackett, W. Mary, MA *Oxon. & Manc.*,  
DPhil *Oxon.* (Romance Philol.) Reader  
Jones, R. A., MC, MA Sr. Lectr.  
Landers, W. M., TD, BA PhD Sr. Lectr.  
Weightman, J. G., BA *Durh.*,  
LèsL *Poitiers*, PhD Lectr.  
Barron, Jean D., BA PhD Lectr.  
Johnson, A. H., MA *Wales* Asst. Lectr.  
Smith, F. R., BA *Oxon.* Asst. Lectr.  
Osmond, N. H. H., BA *Oxon.* Asst. Lectr.  
Stables, E., MA Asst. Lectr.  
2 Assts.

### Geography

(In conjunction with staff of London School of  
Economics)

Wooldridge, S. W., CBE, DSc, FRS Prof.  
Pugh, J. C., MA *Camb.*, PhD Reader  
Coleman, Alice M., MA Lectr.  
Elkins, T. H., BA Lectr.  
Yates, E. M., MSc PhD Lectr.  
Bird, J. H., BA PhD Lectr.  
Brunsdon, D., BSc Asst. Lectr.

### Geology

Taylor, J. H., AM *Harv.*, BSc PhD, FGS, FRS Prof.  
Pitcher, W. S., BSc PhD Reader  
Prentice, J. E., BSc PhD Lectr.  
Elwell, R. W. D., MSc PhD Lectr.  
Hancock, J. M., MA PhD *Camb.* Lectr.  
Jones, D. G., MSc *Wales* Lectr.  
Le Maitre, R. W., MA PhD *Camb.* Asst. Lectr.  
Richardson, J. B., BSc PhD *Sheff.* Asst. Lectr.

**German**

Norman, F., OBE, MA, FSA	Prof.
Gilbert, Mary E. C. M., DrPhil Berl.	Reader
Thoma, H. H. K., DrPhil Munich	Sr. Lectr.
Middleton, J. C., MA DPhil Oxon.	Lectr.
Graham, Mrs. Ilse, BA PhD	Lectr.
Wain, Mrs. Marianne, MA Oxon.	Asst. Lectr.
Beckley, R. J., BA	Asst. Lectr.
1 Lektor	

**Greek, Modern, and Byzantine History, Language and Literature**

Koraës Prof.

**History, see also Greek and Eccles. Hist.**

Williams, C. H., MA Camb.	Prof.
Graham, G. S., MA Qu., AM Harv., PhD Camb.	(Imperial H.) Rhodes Prof.
Howard, C. H. D., MA Oxon.	Reader
Hodgett, G. A. J., MA	Lectr.
Howard, M. E., MC, MA Oxon.	(War Studies) Lectr.
Duggan, C., PhD Camb., BA	Lectr.
Flint, J. E., MA Camb., PhD	Lectr.
Roseveare, H. G., BA Camb.	Asst. Lectr.
Brown, R. A., MA DPhil Oxon., FSA	Asst. Lectr.
Marshall, P. J., BA Oxon.	Asst. Lectr.
Roy, I., MA St.And.	Asst. Lectr.

**History, Ancient**

Scullard, H. H., MA Camb., PhD, FBA, FSA	Prof.
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**History and Philosophy of Religion**

Lewis, H. D., MA Wales, BLitt Oxon.	Prof.
Parrinder, E. G., MA DD	(Compar. Study) Reader
Smart, R. N., MA BPhil Oxon.	Lectr.

**Law**

Graveson, R. H., SJD Harv., LLD Sheff. & Lond., PhD	Prof.
Crane, F. R., LLB	(English L.) Prof.
Nokes, G. D., LLD	Prof.
Kiralfy, A. K. R., LLM PhD	Reader
James, T. E., MA BCL Oxon., PhD	Reader
Davies, C. E. P., MA BCL Oxon.	Sr. Lectr.
Wellwood, J. W., MA Dub.	† Lectr.
Draper, G. I. A. D., LLM	Lectr.
Morrison, C. A., MA Aberd., BA Oxon.	Lectr.
Jones, G. H., MA Camb. & Oxon., LLM Harv., LLB Camb. & Lond.	Lectr.
Chloros, A. G., MA Oxon.	Lectr.
Hughes, A. D., MA BCL Oxon.	Lectr.
Hickling, M. A., LLB PhD	Asst. Lectr.
Farrand, J. T., LLB	Asst. Lectr.
Michaels, Mrs. Naomi E., LLB	Asst. Lectr.
Cockram, Gail-Maryse G. E., LLM	Asst. Lectr.

**Mathematics, Pure and Applied**

Semple, J. G., MA Belf., PhD Camb.	Prof.
Bondi, H., MA Camb., FRS	Prof.

Scott, D. B., MA Camb., DSc	Reader
Fröhlich, A., BSc PhD Brist.	Reader
Kilmister, C. W., MSc PhD	Reader
Saffman, P. G., MA PhD	Reader
Pirani, F. A. E., BSc W.Ont., MA Tor., DSc Carnegie Tech., PhD Camb.	Reader
Edwards, B. A., CBE, MSc Wales	Sr. Lectr.
Tims, S. R., PhD Camb., MSc	Lectr.
Reeve, J. E., MSc	Lectr.
Rosenblat, S., MSc PhD Syd.	Lectr.
Tyrrell, J. A., BSc PhD	Lectr.
Hewson-Browne, R. C., BSc PhD	Asst. Lectr.
Meek, B. L., MSc	Asst. Lectr.

**Palæography**

Brown, T. J., BA Oxon.	Prof.
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**Pharmacology**

Brownlee, G., DSc Glas., PhD	Prof.
Paterson, G., BSc Glas., PhD	Lectr.
Leach, G. D. H., BPharm PhD	Lectr.

**Philology, see English, French****Philosophy**

Findlay, J. N., MA Oxon. & S.A., PhD Graz, FBA	Prof.
Vesey, G. N. A., MA MLitt Camb.	Lectr.
Pole, D. L. S., BA Oxon. & Lond., PhD	Lectr.
Ashby, R. W., BA PhD	Asst. Lectr.

**Physics**

Randall, J. T., DSc Manc., FRS, FIP	Wheatstone Prof.
Domb, C., MA Camb. & Oxon., PhD Camb.	(Theoret. P.) Prof.
Price, W. C., ScD Camb., FIP, FRS	(Exper. P.) Prof.
Champion, F. C., MA PhD Camb., FIP	(Exper. P.) Prof.
Chapman, F. W., MSc PhD	Sr. Lectr.
M'Ewen, Marjorie B., PhD St.And., BSc	Sr. Lectr.
Stokes, A. R., MA PhD Camb.	Lectr.
Curling, C. D., MA Camb.	Lectr.
Burge, E. J., BSc PhD Brist., MA Oxon.	Lectr.
Fisher, M. E., BSc PhD	(Theoret. P.) Lectr.
Wilkinson, G. R., BSc	Lectr.
Dean, P. J., BSc	Lectr.
Danielian, A., BSc PhD Nott.	Asst. Lectr.
Elliott, G. F., BA Oxon.	Asst. Lectr.
Giles, R. A., BSc	Asst. Lectr.
3 Demrs.	

**Biophysics**

Randall, J. T., FRS	Prof., Hon. Dir. of Sub-Dept.
Wilkins, M. H. F., MA Camb., PhD Birm., FRS	Hon. Lectr.
Burge, R. E., BSc PhD	Lectr.
Coombes, J. D., BSc PhD Brist.	Lectr.
1 Demr.	

**Physiology**

D'Silva, J. L., MB BS DSc, MRCP	Prof.
Buller, A. J., BSc MB BS	Reader
Mendel, D., MD, MRCP	Lectr.
Speirs, R. L., BSc PhD <i>Durh.</i>	Lectr.
Shaw, D. M., MB BS, MRCP	Lectr.
Taylor, A., BSc MB BS	Lectr.
Lewis, D. M., BA MB BChir <i>Camb.</i>	Lectr.

**Portuguese**

Boxer, C. R., Hon. DLitt&Phil <i>Utrecht &amp; Lisbon</i> , FBA	Camoens Prof.
Rebello, L. de S., LicemLet <i>Lisbon</i> , MA <i>Coimbra</i>	Lectr.

**Romance Philology**, see French**Spanish Studies**

Parker, A. A., MA <i>Camb.</i>	Cervantes Prof.
Hamilton, Mrs. Rita, LèsL. <i>Lille</i> , BA	Sr. Lectr.
Nadal, R. M., LicinLaw <i>Madrid</i>	Lectr.

Sage, J. W., MA	Lectr.
Cummins, J. S., BA PhD	Lectr.
Ching, Miss Kemlin M., BA	(on leave) Asst. Lectr.
1 Asst.	

**Theology**, see p. 1045**Zoology and Animal Biology**

Danielli, J. F., PhD <i>Camb. &amp; Lond.</i> , DSc, FRS	Prof.
Dawes, B., DSc	Reader
Arthur, D. R., MSc <i>Wales</i> , PhD	Reader
Bell, L. G. E., BSc PhD	Lectr.
Cox, C. B., MA <i>Oxon.</i> , PhD <i>Camb.</i>	Lectr.
Barnard, E. A., BSc PhD	Lectr.
Wolpert, L., BSc(Eng) <i>Rand</i>	Lectr.
Cox, F. E., BSc <i>Exe.</i>	Asst. Lectr.
Hawkins, Shirley E., BSc PhD	Asst. Lectr.
Fisher, R. C., MA PhD <i>Camb.</i>	Asst. Lectr.
Cole, R. J., BSc	Asst. Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Accountant : R. A. Chappell.	Bursar :	Helen M. Hudson, MA <i>Durh.</i> , DUDijon.
W. B. E. Euden, BA.	Chaplain : Rev. P. E. Coleman, LL.B.	Tutor to Women Students :
		Wardens : King's Coll. Hall, K. H. F. Blau, BSc PhD ; Halliday Hall, J. B. Hainsworth, MA.

**GENERAL INFORMATION**

Founded by royal charter in 1829 for 'instrucn. in the various branches of literature and sci. and the doctrines and duties of Christianity', King's Coll. consisted at first of a sch. and depts. of general lit., sci. and med., to which were added successively engin., theol. and oriental depts. The hosp. was built in 1839; the evg. classes were started in 1856, and a women's dept. in 1881. In 1910 the coll. sch. became a separate corporation, the hosp. and advanced med. sch. were made indep., the other depts. (except the theol.) doing work of univ. standard were incorporated in the Univ. of London with the name of Univ. of London King's Coll., while the council remained the governing body of the theol. dept., which became a sch. of the univ. The coll. as a whole retained the name of King's Coll., London. In 1915 the arts and sci. depts. of King's Coll. for Women, previously housed in Kensington, were transferred to the Strand bldg. of King's Coll., and the household & soc. sci. dept. to new bldgs. on Campden Hill. The dept. of household & soc. sci. became a separate instn. in 1928 under the title of King's Coll. of Household and Soc. Sci., now Queen Elizabeth Coll. In 1917 the oriental dept. was transferred to the new Sch. of Oriental Studies. The Sch. of Slavonic and East European Studies, founded in 1915, was constituted a separate dept. of the univ. in 1932.

**CONSTITUTION.** Univ. of London King's Coll., consisting of the five facs. named below, is incor-

porated in the Univ. of London, and is governed by a delegacy of the senate. It is also, with King's Coll. Theol. Dept. (see p. 1045), an integral part of King's Coll. London. The principal of King's Coll. London is apptd. by the crown; the dean of King's Coll. Theol. Dept., elected by the council, is equally dean of the whole coll. The sec., librarian and registrar also serve the whole coll. and are apptd. by the governing bodies jointly. The fac. of arts includes profs. of div. and eccles. hist.

**FACULTIES AND DEANS.** *Arts*, Prof. G. S. Graham (hist.); *engin.*, Prof. A. D. Ross (civil engin.); *laws*, Prof. R. H. Graveson; *med. sci.*, Prof. T. Nicol (anat.); *nat. sci.*, Prof. H. Bondi (maths.).

**LIBRARIES** (about 200,000 vols.). In addn. to the general library there are the following sp. libraries: (1) the Marsden (philol.), (2) Wheatstone (electr. and kindred subjects), (3) Skeat and Furnivall (philol. & Engl. lit.), (4) Ronald Burrows library (mediæval & mod. Greek), (5) Frida Mond (Goethe & German lit.), (6) T. R. R. Stebbing (zool.), (7) F. D. Maurice collection, (8) the Box library (Semitic studies). There are also the following deptl. libraries: anat. & physiol., bot., chem. engin., chem., classics, educn., electr. engin., engin. (civil & mech.), French, geog., geol., German, hist., imperial hist., laws, maths., war studies, palæog., pharmacol., phys., Portuguese, Spanish, zool.

**LABORATORIES AND MUSEUMS.** Anat. (Hughes collection), comp. anat., biol., bot., chem., chem. engin., engin., geol. & mineral., mat. med., metall., pharmacol., phys., physiol. (incl. biochem. & histol.), zool.; Halley Stewart labs. of phys. res., 30 Chesterford Gdns., N.W.3; bot. out-stn., 68 Half Moon Lane, S.E.24; plant physiol. lab., Danehurst, Champion Hill, S.E.5.

**ADMISSION** (see p. 965 and Appendix II). Applicants for admission to the French or German honours sch. or for chem. are required to take an entrance test in their schs. Applicants for bot. or zool. have a practical test when called for interview. In general the coll. does not admit students who have still to comply with the univ.'s requirements for entry on their respective degree courses, but it does admit to inter. courses in fac. of laws.

Applicns. from Indian or Pakistani students, whether for undergrad. or for postgrad. work, must be made through the office of the appropriate high commissioner.

Owing to restrictions on space, occasl. students cannot be admitted to undergrad. courses unless they are from univs. with which King's Coll. has exchange arrangements in mod. langs.

**FIRST DEGREES** (of Univ. of London). The coll. provides 3-yr. courses for degrees of the Univ. of London as listed below. BA (gen.), BSc (gen.), BA (hons.) in classics, Greek (with Latin), Latin (with Greek), Engl., French, geog., German, hist., maths., philos., Portuguese, Spanish; theol. may be taken for BA (gen.); LLB; BSc (spec.) in bot., chem., geog., geol., maths., phys. or zool.; psychol. for BSc (gen.) by inter.-coll. arrangement; BSc(Eng).

Pre-clin. courses for 2nd MB BS (5 terms). Clin. med. trg. at King's Coll. Hosp., St. George's Hosp. or Westminster med. schs.

Evg. classes in fac. of laws.

**HIGHER DEGREES** (of Univ. of London). MA, LL.M, MSc, MSc(Eng), PhD in above 1st degree subs.; MA in educn.; MSc and PhD also in biochem. or pharmacol.

**DIPLOMA.** *Awarded by Univ. of London:* academic dipl. in educn. (2 yrs. full-time or 3 yrs. pt.-time). *Awarded by the coll.:* coll. dipl. in chem. engin. (1 yr. full-time).

**CERTIFICATE.** *Awarded by Univ. of London:* postgrad. cert. in educn. (1 yr.).

The ASSOCIATESHIP of King's Coll. (AKC) is open to men and women who have graduated after 3 yrs.' course and have also attended prescribed course in divinity and passed appropriate exams.

**RESEARCH AND ADVANCED STUDY.** Special facilities in Engl. (incl. bibliog.), hist. (esp. anc., mediæv., mod. and colonial, and war studies), palæog., Portuguese, Spanish, mod. Greek, educn. and several depts. of sci. All facs. accept students for postgrad. courses. A med. res. clin. unit provides res. and teaching in conjunction with the dept. of phys. and sub-dept. of biophys.

**FEES.** Undergrad. (incl. union membership): arts, £50 p.a. (£55 if maths. or geog. incl.); laws, £30 p.a. (evg.), £50 p.a. (day); sci., £65 p.a. (£55 for BSc(spec.) in maths. or geog.); med., £65 p.a.; engin., £70 p.a. (incl. lab. fee). Postgrad.: arts, £37 p.a.; laws, £37 p.a.; sci., £67 p.a. (£37 for MSc in maths., £57 in geog.); med., £67 p.a.; engin., £67 p.a.

ENTRANCE SCHOLARSHIPS in all facs.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 825.

**RESIDENCE.** Halliday Hall, South Side, Clapham Common, London, S.W.4 (tel.: Tulse Hill 5780), for 133 men; fees, £140 to £155 a session. King's Coll. Hall, Champion Hill, London, S.E.5 (tel.: Brixton 2558), for 110 men; fees, £130 to £145 a session.

A REGISTER OF FORMER STUDENTS is maintained. Membership of the King's Coll. London Assocn. enables former students to keep in touch with one another and with the coll.

STUDENTS' UNION SOCIETY has its own premises in Chesham House, Surrey St., W.C.2.

**PUBLICATIONS.** Separate prospectus for each fac., post free. *Calendar*, 10s. 6d. post free; King's Coll. *Review*; union soc. *Handbook*; King's *Engineer*; King's *Counsel*; King's Coll. London Assocn. *Mag.*; F. J. C. Hearnshaw, *History of King's Coll.* (Harrap, London, 1931; o/p.).

## THE YEAR 1959

**RETIREMENTS.** Prof. R. J. S. McDowall (physiol.); Sir Nigel Ball, Bt. (bot.).

**RESIGNATIONS.** Dorothy Brittain (tutor to women students), on marriage; G. V. Bennett (hist.), elected fellow and chaplain of New Coll., Oxford; R. S. Snell (anat.), apptd. lectr. in anat., King's Coll., Newcastle; A. J. Bland (laws); A. P. Howse (sub-librarian), apptd. librarian, Birkbeck Coll., Lond.

**DEATHS.** Dr. G. M. Bennett (prof. of chem., 1938-45); J. R. Carey (lectr. in Spanish, 1926-1943); Prof. C. H. Driver (lectr. in hist., 1931-1935); Prof. C. Jenkins (prof. of eccles. hist.,

1918-34); Sir Owen W. Richardson (Wheatstone prof. of phys., 1914-24); Emer. Prof. J. A. K. Thomson (prof. of classics, 1923-45); F. G. Watts (lectr. in mech. engin., 1946-55).

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time		Part-Time
Men	.	1586	133
Women	.	508	30
Total		2094	163



Distribution by Faculties. *Arts*, 810; *engin.*, 225; *laws*, 271; *med.*, 345; *sci.*, 606. Total: 2257.

*Included in the figures above are :—*

Postgraduate students, 374 (299 full-time, 75 pt.-time).

New admissions, 743.

Students from other countries, 109. (Countries from which largest numbers came: Nigeria, 30; U.S.A., 15; Ghana, 10; Canada, 9; Germany, 9; India, 9).

DEGREES AWARDED (by Univ. of London) (1958-59). *Arts*: BA (gen.), 17; BA (hons.), 149; MA, 9; PhD, 8. *Engin.*: BSc(Eng), 56; PhD, 1. *Law*: LLB, 66; LLM, 3; PhD, 1. *Sci.*: BSc (gen.), 31; BSc (pass), 3; BSc (spec.) hons., 119; MSc, 8; PhD, 30. Total number of first degrees awarded, 441.

DIPLOMAS AWARDED (by Univ. of London) (1958-59). Academic dipl. in educn., 2.

CERTIFICATES AWARDED (by Univ. of London) (1958-59). Postgrad. cert. in educn., 81.

[Information compiled as at 8/8/60]

## LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

Founded 1895

Postal Address: Houghton Street, Aldwych, London, W.C.2, England

Cables and Telegrams: Poleconics, Estrand, London

Telephone: Holborn 7686

CHAIRMAN OF COURT OF GOVERNORS—The Rt. Hon. LORD BRIDGES, GCB, GCVO, MC, MA Hon. DCL Oxon., Hon. DLitt R'dg., Hon. LLD Camb., Brist. & Lond., FRS

VICE-CHAIRMAN—F. E. HARMER, CMG, MA

DIRECTOR—Sir SYDNEY CAINE, KCMG, Hon. LLD Malaya, BSc(Econ)

SECRETARY—H. KIDD, MA Oxon. & Camb.

ASSISTANT SECRETARY AND ACCOUNTANT—H. C. SCRIVEN, FCA, FCIS

ASSISTANT SECRETARY AND BURSAR—W. S. COLLINGS, BA

REGISTRAR—J. ALCOCK, BA Manc.

LIBRARIAN—G. WOLEDGE, BA Leeds

## TEACHING STAFF

[†=Part-Time]

**Accounting**, see Econ.

**Anthropology, Social**

Firth, R. W., MA N.Z., PhD, FBA Prof.

Schapera, I., MA Cape T., DSc, FRSSAf, FBA Prof.

Freedman, M., MA PhD Reader

Mair, Lucy P., MA Camb., PhD (Appl. A.) Reader

Morris, H. S., BSc Edin., DipSocAnthrop Lectr.

Stirling, A. P., MA DPhil Oxon. Lectr.

Smith, Marian W., PhD Col. †Lectr.

Benedict, B., AB Harv., PhD Asst. Lectr.

Lancaster, Mrs. Lorraine F., BA Syd., DipSocAnthrop Asst. Lectr.

**Business Administration**, see Econ.

**Criminology**

Williams, J. E. H., LLM Wales Reader

**Demography**

Carrier, N. H., MA Camb. Reader

Hajnal, J., MA Oxon. Lectr.

**Economics (including Accounting and Business Administration)**

Bauer, P. T., MA Camb.

(E. of Underdeveloped Countries & E. Development) Prof.

Baxter, W. T., BCom Edin., CA (Acctg.) Prof.

Devons, E., MA Manc. (Internat. Trade) Prof.

Edwards, R. S., BCom DSc(Econ) (Indust. Org.) Prof., Hon. Lectr.

# LONDON SCHOOL OF ECONOMICS & POLITICAL SCIENCE 1011

Paish, F. W., MC, MA *Camb.*  
(Bus. Finance) Prof.

Phelps Brown, E. H., MBE, MA *Oxon.*,  
FBA (E. of Labour) Prof.

Phillips, A. W., MBE, BSc(Econ) PhD  
(Econ. Sci. & Stats.) Tooke Prof.

Plant, Sir Arnold, BSc(Econ) BCom  
(Bus. Admin.) Cassel Prof.

Robbins, Rt. Hon. Lord, CB, MA *Oxon.*,  
Hon. DLitt *Durh. & Exe.*, Hon. LHD  
Col., Hon. LLD *Camb. & Stras.*,  
Hon. Dr T.U.Lisbon, BSc(Econ), FBA Prof.

Sayers, R. S., MA *Camb. & Oxon.*, FBA  
(Money & Banking) Cassel Prof.

Yanley, B. S., BCom *Cape T.* Prof.

Day, A. C. L., BA *Camb.* Reader

Edey, H. C., BCom (Acctg.) Reader

Knox, A. D., BA *Tor.* Reader

Lancaster, K. J., MA BSc *Syd.*, BSc(Econ)  
PhD Reader

Lapsey, R. G., BA *Br.Col.*, MA *Tor.*,  
PhD Reader

Makower, Helen, BA *Camb.*, PhD  
(Internat. Trade) Reader

Morton, G., BSc(Econ) PhD  
(Operational Res.) Reader

Nove, A., BSc(Econ)  
(Russian Soc. & Econ. Studies) Reader

Ozga, S. A., PhD Reader

Penrose, Mrs. Edith T., AB *Calif.*, MA  
PhD *Johns H.* Reader

Ponsonby, G. J., MA *Camb.*  
(Transport) Cassel Reader

Pressnell, L. S., BSc(Econ) PhD  
(Money & Banking) Reader

Turvey, R., BSc(Econ)  
(on leave) (Pub. Finance) Reader

Rose, H. B., BCom  
Dir. of Studies, Course in Indust.  
Financing

Alford, R. F. G., BSc(Econ) (on leave) Lectr.

Anstey, Mrs. Vera, DSc(Econ)  
Sr. Tutor., †Lectr.

Archibald, G. C., MA *Camb.*, BSc(Econ) Lectr.

Brooker, R. P., LLB (Acctg.) Lectr.

Foldes, L. P., BCom MSc(Econ) Lectr.

Gould, J. R., BSc(Econ) Lectr.

Kerrigan, Mrs. Jean, BSc(Econ) †Lectr.

Klappholz, K., BSc(Econ)  
Tutor, Course in Econ. & Soc. Admin.,  
Lectr.

Martin, Anne, MA *Oxon.* (Agric. E.) Lectr.

Mishan, E. J., BA *Manc.*, PhD *Chic.*,  
MSc(Econ) Lectr.

Opie, R. G., MA *Adel.*, BA BPhil *Oxon.* Lectr.

Peston, M. H., BSc(Econ) Lectr.

Thirby, G. F., BCom Lectr.

Townsend, H., BSc(Econ) Lectr.

Williams, G. P., MBE, BCom  
(Admin., Org., & Cognate Bus.  
Studies) Lectr.

Wiseman, J., BSc(Econ) Lectr.

Woods, J. H., BSc(Econ) (Acctg.) Lectr.

Corry, B. A., BSc(Econ) PhD Asst. Lectr.

Crossley, J. R., BSc(Econ) Asst. Lectr.

Grant, J. A. G., BA *Tor.* Asst. Lectr.

Oldershaw, Mrs. Diana M. T., BSc(Econ)  
Asst. Lectr.

Steuer, M. D., BSc MA *Col.* Asst. Lectr.

Thomas, J. J., BSc(Econ) Asst. Lectr.

Kennedy, M. H., BA *Tor.*, CA (Acctg.) Asst.

## English (as a foreign language)

Chapman, R., MA *Oxon.*, MA Lectr.

## French, see Mod. Langs.

## Geography

Buchanan, R. O., MA N.Z., BSc(Econ),  
PhD Prof.

Wise, M. J., MC, BA PhD *Birm.*  
Prof., Chairman of Admissions Cttee.

Stamp, L. D., CBE, Hon. LLD *Clark*, BA  
DSc DLit Prof. Emer., Hon. Lectr.

Harrison-Church, R. J., BSc(Econ) PhD Reader

Jones, E., MSc PhD *Wales* (Soc. G.) Reader

Clayton, K. M., MSc *Sheff.*, PhD Lectr.

Estall, R. C., BSc(Econ) Lectr.

Lambert, Audrey M., BA PhD Lectr.

Martin, J. E., BSc(Econ) Lectr.

Rawson, R. R., BSc *Wales* Lectr.

Sealy, K. R., MSc(Econ), PhD Lectr.

Sinclair, D. J., MA *Edin.* Lectr.

Jackson, C. I., MSc *McG.*, BA Asst. Lectr.

## German, see Mod. Langs.

## History, Economic

Carus-Wilson, Eleanora M., MA Prof.

Fisher, F. J., MA Prof.

Coleman, D. C., BSc(Econ) PhD Reader

John, A. H., PhD *Camb.*, BSc(Econ) Reader

Barker, T. C., MA *Oxon.*, PhD *Manc.* Lectr.

Bridbury, A. R., BSc(Econ) PhD Lectr.

Brown, Lucy M., MA *Camb.*, PhD Lectr.

Carter, Mrs. Alice M. C., MA Lectr.

Erickson, Charlotte J., MA PhD *Corn.* Lectr.

Mingay, G. E., BA PhD *Nott.* Lectr.

Potter, J., MA(Econ) *Manc.* Lectr.

Stern, W. M., BSc(Econ) Lectr.

Waley, D. P., MA PhD *Camb.* Lectr.

## History, International

Medlicott, W. N., MA DLit, FRHistS  
Stevenson Prof.

Barraclough, G., MA *Oxon.* Stevenson Res. Prof.

Davies, A., MA *Wales*, FRHistS Reader

Hatton, Mrs. Ragnhild M., CandMag *Oslo*,  
PhD, FRHistS Reader

Anderson, M. S., MA PhD *Edin.* Lectr.

Bourne, K., BA PhD Lectr.

Gottlieb, W. W., MagJur *Riga* Lectr.

Grun, G. A., MA *Camb.* Lectr.

Hearder, H., BA PhD Lectr.

Lee, Hilda I., MA Lectr.

Watt, D. C., MA *Oxon.* (on leave) Lectr.

**Industrial Relations**

Roberts, B. C., MA *Oxon.* Reader

**International Relations**

Manning, C. A. W., MA BCL *Oxon.* Montague Burton Prof.

Goodwin, G. L., BSc(Econ) (Internat. Instns.) Reader

Northedge, F. S., BSc(Econ) PhD Reader

Wight, R. J. M., BA *Oxon.* Reader

Tunstall, W. C. B., MA *Camb.*, FRHistS Sr. Lectr.

Bull, H. N., BA *Syd.*, BPhil *Oxon.* Lectr.

Chambers, F. P., MA *Camb.* Lectr.

James, A. M., BSc(Econ) Lectr.

Stern, G. H., BSc(Econ) Asst. Lectr.

**Law, see also Criminology**

Gower, L. C. B., MBE, LLM (Comm. L.) Cassel Prof.

Griffith, J. A. G., LLM (Engl. L.) Prof.

Johnson, D. H. N., MA LLB *Camb.* (Internat. & Air L.) Prof.

Kahn-Freund, O., DrJur *Fran.*, LLM Prof.

Plucknett, T. F. T., LLB Hon. LittD *Camb.*, Hon. LLD *Glus.*, MA, FBA (Legal Hist.) Prof.

de Smith, S. A., MA *Camb.*, PhD (Public L.) Prof.

Wheatcroft, G. S. A., MA *Oxon.*, JP (Engl. L.) Prof.

Grunfeld, C., MA LLB *Camb.* Reader

Williams, J. E. H., LLM *Wales* (Criminol.) Reader

Chorley, Rt. Hon. Lord, MA †Lectr.

Diamond, A. L., LLM Lectr.

Mann, M., LLB PhD Lectr.

Slynn, G., MA LLB *Camb.* †Lectr.

Stone, Olive M., LLB BSc(Econ) Lectr.

Valentine, D. G., MA LLB *Camb.*, DrJur *Utrecht* Lectr.

Aikin, Mrs. Olga L., LLB Asst. Lectr.

Downey, B. W. M., LLB Asst. Lectr.

Dworkin, G., LLB *Nott.* Asst. Lectr.

Keenan, P. B., LLB *Manc.* Asst. Lectr.

Tapper, C. F. H., BA BCL *Oxon.* Asst. Lectr.

**Modern Languages**

Rose, W., MA *Birm.*, PhD (German) Prof.

Scott-James, Mrs. Paule H. J., BLitt *Oxon.* (French) Sr. Lectr.

John, S., MA *Wales* (French) Lectr.

Schatzky, Brigitte E., MA (German) Lectr.

Tint, H., BA PhD (French) Lectr.

Orda, Mrs. Mary G., MA *Glus.* (French) Asst. Lectr.

Smieja, F. L., MA *N.U.I.*, MA (Spanish) Asst. Lectr.

**Philosophy, Logic and Scientific Method**

Popper, K. R., MA *N.Z.*, PhD *Vienna*, DLit, FBA Prof.

Watkins, J. W. N., DSC, MA *Yale*, BSc(Econ) (Hist. of Philos.) Reader

Wisdom, J. O., PhD *Dub.* Reader

Lakatos, I., PhD *Bud.* Asst. Lectr.

**Politics and Public Administration**

Oakeshott, M. J., MA *Camb.* Prof.

Robson, W. A., Hon. DUParis, Lille, Grenoble & Algiers, BSc(Econ) PhD (Pub. Admin.) Prof.

Smellie, K. B. S., BA *Camb.* (Pol. Sci.) Prof.

Bassett, R., MA *Oxon.* Reader

Greaves, H. R. G., BSc(Econ) (Pub. Admin.) Reader

Schapiro, L. B., LLB (Russian Govt. & Pol.) Reader

Pickles, W., MA *Leeds* Sr. Lectr.

Sharp, Dorothea E., MA *Tor.*, DPhil *Oxon.* Sr. Lectr.

Crick, B. R., BSc(Econ) PhD Lectr.

Cranston, M., MA BLitt *Oxon.*, FRSL Lectr.

Kedourie, F., BSc(Econ) Lectr.

Miliband, R., BSc(Econ) PhD Lectr.

Minogue, K. R., BA *Syd.*, BSc(Econ) Lectr.

Panter-Brick, S. K., BA BPhil *Oxon.* Lectr., Dep. Chairman of Admissions Cttee.

Pear, R. H., BSc(Econ) Lectr.

Self, P. J. O., BA *Oxon.* Tutor, Course in Econ. & Soc. Admin., (Pub. Admin.) Lectr.

Boyd, T. C., MA *Oxon.* Asst. Lectr.

Thorp, E., BSc(Econ) Asst. Lectr.

Wolf-Phillips, L. A., BSc(Econ) Asst. Lectr.

**Psychology, Social and Industrial**

Himmelweit, Mrs. Hilde, MA *Camb.*, PhD Reader

Holmes, R., BA *Exe. & Lond.* Lectr.

Hotopf, W. H. N., MA *Camb.* Lectr.

Oppenheim, A. N., BA *Melb.*, PhD Lectr.

Price-Williams, D. R., BA Lectr.

Rodger, A., MA *Camb.* (Indust. P.) †Lectr.

**Social Science and Administration**

Titmuss, R. M., Hon. DSc *Wales* (Soc. Admin.) Prof.

Donnison, D. V., BA *Oxon.* (Soc. Admin.) Reader

Kydd, Jessie A., MBE, MA BCom *Edin.* Sr. Lectr.

McDougall, Mrs. Kate F. (Mental Health) Sr. Lectr.

Seear, Beatrice N., BA *Camb.* Sr. Lectr.

Abel-Smith, B., MA PhD *Camb.* Lectr.

Bell, Leslie H., MA Lectr.

Butrym, Zofia T. (Soc. Casework) Lectr.

Cockburn, Mrs. Christine, MA *Aberd.* Lectr.

Elkan, Irmi J. M. (Mental Health) †Lectr.

Judd, Mrs. Helen O., MA *Edin.*, JP Lectr.

Slack, Kathleen M., DipSociol Lectr.

Smith, J. H., BA Tutor, Course in Econ. & Soc. Admin., Lectr.

Russell, Mrs. Katharine F. Organizer of Practical Trg.

# LONDON SCHOOL OF ECONOMICS & POLITICAL SCIENCE 1013

Thurley, K. E., BSc(Econ) (Soc. Admin.) Lectr.  
 Townsend, P. B., BA *Camb.* (Soc. Admin.) Lectr.  
 Winnicott, Mrs. Clare †Lectr.  
 Wright, R. C., BA *Manc.* (Mental Health) Lectr.  
 Forder, R. A. D., BA *Camb.* Asst. Lectr.  
 Hodge, P., DipSocStud *Nott.* Asst. Lectr.  
 Myers, E. S. Asst. Lectr.

## Sociology

Ginsberg, M., Hon. LLD *Glas. & Nott.*, MA DLit, FBA †Prof. Emer.  
 Glass, D. V., BSc(Econ) PhD Prof.  
 ..... Martin White Prof.  
 Bottomore, T. B., MSc(Econ) Reader  
 Dore, R. P., BA (Far East) Reader  
 Gellner, E. A., MA *Oxon.* Reader  
 Gould, S. J., MA *Oxon.* (Soc. Instns.) Reader  
 McKenzie, R. T., BA *Br. Col.*, PhD Reader  
 MacRae, D. G., MA *Glas. & Oxon.* Reader  
 Chambers, Rosalind C., BSc(Econ) Lectr.  
 Lockwood, D., BSc(Econ) PhD Lectr.  
 Morris, T. P., BSc(Soc) PhD Lectr.  
 Tropp, A., BSc(Econ) PhD Lectr.

Westergaard, J. H., BSc(Econ) Lectr.  
 Clifford-Vaughan, Mrs. Michalina E. F., Dipl *Inst.d'Et.Pol., Paris* Asst. Lectr.  
 Little, A. N., BSc(Soc) Asst. Lectr.  
 Newfield, J. G. H., BSc(Soc) Asst. Lectr.

## Statistics

Allen, R. G. D., CBE, MA *Camb.*, DSc(Econ), FBA Prof.  
 Kendall, M. G., MA ScD *Camb.* Prof.  
 Durbin, J., MA *Camb.* Reader  
 Foster, F. G., BA *Belf.*, DPhil *Oxon.* (Stat. Computing) Reader  
 Moser, C. A., BSc(Econ) (Soc. Stats.) Reader  
 Stuart, A., BSc(Econ) Reader  
 Booker, H. S., MSc(Econ) Sr. Lectr.  
 Doig, Alison, BA BSc *Melb.* Lectr.  
 Gales, Kathleen E., BA *Camb.*, MA *Ohio* Lectr.  
 Land, Mrs. Ailsa H., BSc(Econ) PhD (Operational Res.) Lectr.  
 Quenouille, M. H., MA *Camb.* †Lectr.  
 Smith, T. M. F., BSc(Econ) Asst. Lectr.

## Transport, see also Economics

Ponsonby, G. J., MA *Camb.* Cassel Reader

In addition to the above, a large number of occasional appts. is made from year to year.

## ADMINISTRATIVE STAFF

Careers Adviser: Commander D. Warren-  
 Evans. Psychiatric Adviser: Dr. J. C. Read. Main-  
 tenance Officer: S. A. Godfrey, BSc(Econ). Asst.  
 to the Sec.: Mrs. Marion Horn, BA *Leeds*. Sec.  
 of Graduate School: Anne M. Bohm, PhD *Berl.*  
 Asst. Registrar: Evelyn M. Myatt-Price, MA.  
 Asst. Accountants: B. T. Parkin, FCA; Phyllis  
 M. Shrimpton. Asst. Maintenance Officer:  
 J. A. G. Deans, MBE.

LIBRARY. Dep. Librarian: Marjorie Plant,  
 DSc(Econ), FLA. Sub-Librarians: Martha E.  
 Dawson, MA (Chief Cataloguer); W. L. Gutts-  
 man, MSc(Econ) (Acquisitions Officer); Mrs.  
 Maria Nowicki, LL.M (Supt. of Reading Rooms).  
 Sr. Asst. Librarian: C. G. Allen, MA. Asst.  
 Librarians: B. G. Awty, BA; E. C. Blake, BA;  
 Margaret N. Blount, BA; Una M. Nottage,  
 BSc(Econ).

## GENERAL INFORMATION

Founded in 1895 for the study of the soc. scis.,  
 initially econ., econ. hist. and statistics. Recog. as  
 a sch. of the univ. in 1900 for the BSc(Econ) degree  
 course. In 1904 sociol. was added to the curricu-  
 lum, and in 1912 the dept. of soc. sci. & admin.  
 was establd. In 1921 recog. as a sch. of the univ.  
 in the fac. of laws, in 1922 in the fac. of arts  
 (geog. and sociol.), in 1924 for hist. and anthropol.,  
 and in 1958 for philos. and econ.

INCOME (1958-59). Total income: £695,480  
 (govt. grants, 70.31 per cent.; endowments, 3.05  
 per cent.; fees, 15.13 per cent.; donations, 10.56  
 per cent.; misc. sources, 0.95 per cent.).

LIBRARY. The British Library of Pol. & Econ.  
 Sci. (400,000 vols. and over 400,000 pamphlets) is  
 attached to the sch. and includes the Edward Fry  
 library of internatl. law, the Schuster library of  
 compar. legislation, and a number of sp. collec-  
 tions. The library is open not only to those who  
 are taking courses at the sch., but, by permission

of the librarian, also to other persons desiring to  
 use it for res. or consultation.

ADMISSION. See p. 965 and Appendix II. The  
 sch. is open on the same terms to men and to  
 women. The sch. reserves the right to call any  
 student for personal interview, and may also  
 specify conditions, over and above the require-  
 ments of the univ. regns., with which a student  
 must comply before admission. Persons seeking  
 admission to the sch. for a first degree or dipl.  
 course may be required to sit for an entrance  
 exam., which consists of a 3-hr. paper, containing  
 questions of a general nature and questions on the  
 use of English.

FIRST DEGREES (of Univ. of London). The sch.  
 provides courses for degrees of the Univ. of  
 London as listed below. 3 yrs.—BSc(Econ),  
 BSc(Soc), LLB, BA in anthropol., geog., hist.,  
 philos. and econ., sociol. Courses are given both

in the day and in the evg. for BSc(Econ), LLB and higher degrees.

**HIGHER DEGREES** (of Univ. of London). MSc (Econ), MA and PhD in all subsj. for which first degrees are awarded.

**DIPLOMAS.** *Awarded by Univ. of London.* Postgrad.: anthropol., soc. studies in trop. territories, law, psychol., pub. admin., each 2 yrs.; stats., 1 yr.

**CERTIFICATES.** *Awarded by the sch.* Soc. sci. & admin., 1 yr. for grads., 2 yrs. for others; soc. workers in mental health, personnel admin., appl. soc. studies, each 1 yr.; internat. studies, 2 yrs.

**SPECIAL COURSES.** Bus. admin., econ. & soc. admin., trade union studies, each 1 yr.; indust. financing, 6 mos.; operational res., 2 yrs. In collaboration with Imperial Coll. the sch. arranges courses in postgrad. studies in technol., econ. and admin.

**FEES.** Annual composition fee (incl. union membership) for a full-time first degree course in arts, in laws or in econ., £50; for a full-time postgrad. course (except LLM), £50; LLM, £26. Evg. students receive considerable reduction in fees. The fees incl. privileges of students' common rooms and athletic socs. The playing fields at Malden are available for members of the athletic union.

**SCHOLARSHIPS.** Entrance scholps. (incl. the Leverhulme scholps.) are awarded each yr. and

are eligible for supplementation by the Ministry of Educn.; also 2 entrance scholps., £450 each, for intending specialists in stats. and computational methods. Two adult scholps. may be awarded to students who have shown promise in pt.-time studies. Scholps. are also awarded during the undergrad. course, some of which are eligible for supplementation by the Ministry of Educn.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**RESIDENCE.** Passfield Hall, Endleigh Place, W.C.1 (tel.: (warden & staff) Euston 3584; (students) Euston 7691), for about 140 men; fees: £50, £47:10s. and £45 per term for single, double and treble study-bedrooms respectively. Warden: R. Chapman, MA Oxon. & Lond.

**STUDENT HEALTH.** The sch. has its own nurse, who holds a daily surgery in the sch. during the session. A mass radiography unit visits the sch. each session for the exam. of students. A psychiatric advisory service for students has been establd. This is in the charge of a doctor who attends the sch. for consultation by students who feel the need for psychiatric treatment.

**PUBLICATIONS.** Official: *Calendar* (annual); *Handbook* (annual); *Deptl. Pamphlets*. Learned: *New Series*; *Economica*, quarterly journal devoted to res. in econ., econ. hist. and stats.; *The British Journal of Sociol.*, quarterly journal devoted to res. in sociol. and cognate subjects.

## THE YEAR 1959

**RETIREMENT.** Prof. Sir D. Hughes Parry (Engl. law).

**RESIGNATIONS.** D. J. Bentley (law); Dr. N. Birnbaum (sociol.); Mrs. Joan M. Hutton (mental health); Mrs. Poppy Jolowicz (law); H. H. Liesner (econ.); Dr. J. R. Raeburn (agric. econ.); J. S. G. Wilson (econ.).

**DEATHS.** Lady Beveridge (sec. of Sch., 1919-1938); Sir R. Ensor (occasl. lectr., 1930-32); B. M. Headicar (librarian, 1910-34); Brigadier E. de Lorentz Young (appts. officer, 1933-42).

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1625	439
Women . . .	478	57
Total	2103	496

Distribution by Faculties. *Arts*, 313; *econ.*, 2022; *law*, 255. Others, 9. Total: 2599.

*Included in the figures above are:—*

Postgraduate students, 593.

New admissions, 1095.

Students from other countries, 923. (Countries from which largest numbers came: U.S.A., 158; India, 126; Canada, 73).

**DEGREES AWARDED** (by Univ. of London) (1958-59). *Arts*: BA, 31; MA, 6. *Econ.*: BSc(Econ), 293; BSc(Soc), 32; MSc(Econ), 32. *Law*: LLB, 42; LLM, 5. *Sci.*: MSc(Agric), 1. PhD (all facs.): 39. Total number of first degrees awarded, 398.

**DIPLOMAS AWARDED** (by Univ. of London) (1958-59). *Law*, 4.

**CERTIFICATES AWARDED** (1958-59). Appl. soc. studies, 33; internat. studies, 9; mental health, 20; personnel admin., 18; soc. sci. & admin., 68.

[Information compiled as at 8/6/60]

# QUEEN ELIZABETH COLLEGE

Founded 1908

Postal Address : 61-67 Campden Hill Road, London, W.8, England

Telephone and Telegrams : Western 3704

CHAIRMAN OF COUNCIL—Sir GEORGE ALLEN, CBE, MD *Belf.*, Hon. LLD *Malaya*

PRINCIPAL—M. JOAN SARGEAUNT, MA BLitt *Oxon.*

SECRETARY—DIANA M. H. GRYLLE, BA

## TEACHING STAFF

[†=Part-Time]

### Bacteriology

Brown, Mrs. Helen R., PhD *R'dg.*  
Scholes, Patricia M., PhD

Sr. Lectr.  
Lectr.

### Biology

Chapman, G., MA PhD  
Gardiner, Phyllis, BSc  
Rawson, Mrs. Dilys O., MSc *Wales*  
Vaughan, J. G., MSc PhD  
Rigby, Joyce E., PhD *R'dg.*  
Rogers, Stella, BSc *R'dg.*  
Gardiner, B. G., PhD  
Black, M., PhD *Manc.*

(Zool.) Prof.  
Sr. Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Chemistry

Burton, H., DSc, FRIC  
Hargreaves, M. K., MA *Camb.*, DSc,  
FRIC  
Prail, P. F. G., PhD  
Cheeseman, G. W. H., PhD  
Smith, F. Geraldine, BSc *St. And.*  
Banister, A. J., PhD  
Poller, R. C., PhD *S'ton.*  
Bird, C. W., PhD

Prof.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Household Science

Walley, Joan E., BSc  
Urquhart, Mrs. Gweneth M., MSc  
Begrie, Irene C.  
Gardiner, Mrs. Margaret, MSc  
Aitchison, Jean M., BSc  
Honey-Jones, Patricia I., BSc  
Walmsley, Mrs. Ruth E., BSc  
West, Mrs. Jean L., BSc

Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
†Asst. Lectr.

### Mathematics

Bonnor, W. B., DSc  
Perry, R. L., PhD  
Papert, Mrs. Dona, PhD *Camb.*,  
MSc *Cape T.*

Reader  
Lectr.  
Asst. Lectr.

### Nutrition

Yudkin, J., MD PhD *Camb.*, FRIC  
Copping, Alice M., MSc *N.Z.*  
Morgan, T. B., MSc *Wales*  
Brown, Ann, MS *Corn.*, BSc

Prof.  
Sr. Lectr.  
Lectr.  
Asst. Lectr.

### Physics

Dillon, Teresa J., MSc, FIP  
Andrewes, Ursula, PhD  
Parsons, J. J., MSc  
Browne, M. T., BSc  
Hall, Daphne J., BSc  
Sprackling, M. T., PhD *Brist.*

Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Physiology

Knox, J. A. C., MD *Glas.*  
Whaler, B. C., PhD *Sheff.*  
Cheesman, Mrs. Elizabeth, BSc  
Prebble, Mrs. Patricia M., BSc  
Morrissey, Shelagh M., BSc  
Antonis, Mrs. Paulette, BSc  
Heath, R., BSc *Birm.*

Prof.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.  
Asst. Lectr.  
Asst. Lectr.

### Social Studies

Heasman, Mrs. Kathleen J., PhD

†Lectr.

Zoology, see Biol.

## ADMINISTRATIVE AND OTHER STAFF

Bursar : Ida T. Robinson. Librarian : Mrs. Margaret Atkins, BA *N.U.I.*  
Accountant : J. A. Garlick. Asst. Secretary : Mrs. Margaret P. Walters.

## GENERAL INFORMATION

Formerly a dept. of King's Coll. for Women ; since 1928 an indep. sch. of the univ. in the fac. of sci. Name changed from King's Coll. of Household and Soc. Sci. to Queen Elizabeth Coll. when royal charter granted in Jan. 1953. Open to men and women students.

**LIBRARY.** 13,200 vols., not incl. periodicals.

**LABORATORIES** offer facilities for res. work.

**FIRST DEGREES** (of Univ. of London). The coll. provides 3-yr. degree courses for BSc (Household Sci), BSc(Nutrition) and BSc (general) of the Univ. of London.

**DIPLOMAS.** *Awarded by Univ. of London :* univ. academic postgrad. dipl. in dietetics, 15 mos. ; sister tutor's dipl., 2 yrs.

**CERTIFICATE.** *Awarded by the coll. :* coll. cert. in institutional management, 2 yrs.

**ADMISSION.** *See p. 965 and Appendix II.*

**ENTRANCE SCHOLARSHIPS.** One of £80 p.a. and 3 of £40 p.a. for 3 yrs.

**POSTGRADUATE SCHOLARSHIPS.** Two of £350-£400 p.a. for 2 yrs. *See also p. 825.*

**RESIDENCE.** Queen Mary Hall (150 students).

**GRADUATES' ASSOCIATION.** There is an old students' assocn.

**FEES.** Tuition, undergrad. (incl. union membership) : sci., £60 ; postgrad., £30 p.a.

**PUBLICATIONS.** *Prospectus ; Annual Report and Calendar ; Students' Magazine.*

## THE YEAR 1959

**ELECTION OF FELLOW.** Sir John Atkins elected first fellow of the coll. on his retirement from chairmanship of the council.

**NEW DEPARTMENTS AND CHAIRS.** Chair of zool.

**RETIREMENT.** Dr. Doris R. Crofts (zool.).

**RESIGNATIONS.** Brenda M. Short (physiol.) ; Mrs. Cynthia D. Green (physiol.) ; Mrs. P. M. Cox (household sci.), on marriage ; Mrs. Valmai M. Hedley (nutr.), on marriage ; Nita L. Brennan (phys.).

### Statistics

**STUDENT NUMBERS, 1959-60**

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	47	—
Women . . .	150	—
Total	197	

All students are in fac. of sci.

*Included in the figures above are :—*

Postgraduate students, 5.

New admissions, 84.

Students from other countries, 7.

**DEGREES AWARDED** (by Univ. of London) (1958-59). BSc(HS), 5 ; BSc(Nutr), 17.

**DIPLOMAS AWARDED** (by Univ. of London) (1958-59). Sister tutor's, 13.

**CERTIFICATES AWARDED** (1958-59). Institutional management, 18.

*[Information compiled as at 18/8/60]*

## QUEEN MARY COLLEGE

Founded 1915 ; previously established as East London College and originally founded as People's Palace Technical Schools, 1887

*Postal Address :* Mile End Road, London, E.1, England

*Telephone :* Advance 4811

**PATRON—H.M. THE QUEEN**

**CHAIRMAN OF THE GOVERNORS—Sir ALBERT STERN, KBE, CMG, MA**

PRINCIPAL—Sir THOMAS P. CREED, KBE, MC, QC, MA *Oxon.*

REGISTRAR AND SECRETARY—R. P. TONG, OBE, MA *Camb.*

LIBRARIAN—A. WHITWORTH, MA *Leeds*

# TEACHING STAFF

[† = Part-Time]

## Botany

Whittingham, C. P., BA PhD <i>Camb.</i>	Prof.
Godward, Maud B. E., MSc PhD	Reader
Newby, H. V., BSc(Agric) BSc	Sr. Lectr.
Wanstall, P. J., BSc	Lectr.
Walker, D. A., BSc PhD <i>Durh.</i>	Lectr.
Bradbeer, C., BSc PhD <i>Durh.</i>	Lectr.
Jones, B. M. G., BA <i>Camb.</i>	Asst. Lectr.

## Chemistry

Sykes, K. W., MA BSc DPhil <i>Oxon.</i>	Prof.
Hickinbottom, W. J., PhD DSc <i>Birm.</i> , FRIC	Prof.
Weedon, B. C. L., DSc PhD, FRIC	Prof.
Jones, D. C., DSc <i>Wales</i> , PhD <i>Johns H.</i>	Reader
French, Cecilie M., DSc PhD, FRIC	Lectr.
Garwood, R. F., BSc PhD	Lectr.
Grove, Dorothea M., MA BSc <i>Oxon.</i> , PhD	Lectr.
Ansell, M. F., BSc PhD	Lectr.
Waind, Mrs. Gwyneth M., MSc <i>Wales</i> , DPhil <i>Oxon.</i>	Lectr.
Hart, F. A., MA PhD	Lectr.
Pritchard, J., BSc PhD	Lectr.
Urch, D. S., BSc PhD	Lectr.

## Classics

Laidlaw, W. A., MA LittD <i>Dub.</i>	Prof.
Balme, D. M., CMG, DSO, DFC, MA <i>Camb.</i>	Reader
Denny, G. A. W., TD, MA <i>Camb.</i>	Lectr.
Scaley, B. R. I., MA <i>Oxon.</i>	Lectr.
Currie, H. MacL., MA <i>Glas.</i>	Lectr.
Ridgwell, Ann E., BA	Asst. Lectr.

## Engineering, Aeronautical

Young, A. D., MA <i>Camb.</i> , FRAeS	Prof.
Whitehead, L. G., BSc(Eng) PhD	Reader
McQuillin, L. A., MA <i>Oxon.</i>	Lectr.
Hancock, G. J., BSc PhD <i>Sheff.</i>	Lectr.
Milne, R. D., BSc(Eng) <i>Aberd.</i>	Lectr.

## Engineering, Civil

King, J. W. H., MSc <i>Manc.</i> , MICE	Prof.
Daniel, A. W. T., MA <i>Camb.</i> , PhD <i>Lond.</i>	Sr. Lectr.
Gadd, D., MSc(Eng)	Lectr.
Allen, J., MSc PhD <i>Manc.</i>	Lectr.
.....	Lectr.

## Engineering, Electrical

Humphrey Davies, M. W., BSc(Eng) <i>Wales</i> , MSc <i>M.I.T.</i> , MIEE	Prof.
Murgatroyd, W., MA PhD <i>Camb.</i> (Nuclear E.)	Prof.

Stoner, C. R., BSc(Eng), MIEE	Reader
Tropper, H., DipIng <i>Vienna</i> , PhD	Reader
Lewis, T. J., BSc(Eng) MSc PhD	Reader
Saxe, R. F., BSc PhD <i>Liv.</i> (Nuclear E.)	Reader
Mansfield, W. K., BSc	Lectr.
Guile, A. E., BSc(Eng) PhD	Lectr.
Thumwood, R. F., BSc(Eng) PhD	Lectr.
Ellison, A. J., BSc(Eng)	Lectr.
Redwood, M., BSc PhD	Lectr.
Seeley, J. S., BSc(Eng) PhD	Lectr.
Macfarlane, A. G. J., BSc <i>Glas.</i>	Lectr.
Kemeny, L. G., BE <i>Syd.</i> (Nuclear E.)	Lectr.
3 Res. Fellows	

## Engineering, Mechanical

Giffen, E., MSc <i>Belf.</i> , DSc(Eng) PhD, MIMEchE	Prof.
Le Fevre, E. J., BSc(Eng), MIMEchE	Reader
Webb, C. R., BSc(Eng) PhD	Reader
Collacott, R. A., BSc(Eng) PhD	Lectr.
Earles, S. W. E., BSc(Eng) PhD	Lectr.
Kotas, T. J., MSc(Eng)	Lectr.
Cheesewright, R., BEng <i>Liv.</i>	Lectr.
Ellison, E. G., BSc(Eng) PhD	Lectr.
	Lectr.
	Lectr.

## English Language and Literature

Isaacs, J., MA <i>Oxon.</i>	Prof.
Callan, N. R., MA <i>Camb.</i>	Reader
Timmer, B. J., LittD <i>Groningen</i>	Reader
Thompson, Mrs. Marjorie, MA	Lectr.
Thomson, Patricia, MA <i>Oxon.</i>	Lectr.
Hussey, S. S., MA	Lectr.
Gross, J. J., MA	Asst. Lectr.

## French Language and Literature

Collas, J. P., BA BLitt <i>Oxon.</i>	Prof.
Taylor, O. R., MA <i>Wales</i>	Reader
Evans, H. G. J., BA PhD	Reader
Derôme, R., MA <i>Georgia</i> , LèsL <i>Paris</i>	Lectr.
Decreus, Mrs. Juliette C., MA <i>DUParis</i>	Lectr.
Evans, D. H., MA <i>Wales</i> , <i>DUParis</i>	Lectr.
Holmes, Peggy P., BA PhD	Lectr.
Gore, K. O., MA <i>Wales</i>	Asst. Lectr.

## Geography

Smailes, A. E., MA	Prof.
Rawstron, E. M., MA	Reader
Mutton, Alice F. A., MA PhD	Sr. Lectr.
Everard, C. E., MSc	Lectr.
Sheppard, June A., MA PhD	Lectr.
Harris, D. R., MA BLitt <i>Oxon.</i>	Asst. Lectr.
Witherick, M. E., BA <i>Birm.</i>	Asst. Lectr.



**Geology**

Kirkaldy, J. F., DSc	Reader
Middlemiss, F. A., BSc PhD	Lectr.
Greensmith, J. T., BSc PhD <i>Sheff.</i>	Lectr.
Bishop, A. C., BSc PhD	Lectr.
Tucker, E. V., BSc PhD <i>Wales</i>	Asst. Lectr.

**German Language and Literature**

Hatto, A. T., MA	Prof.
Combridge, Rosemary N., MA <i>Oxon.</i> , DrPhil <i>Mün.</i>	Lectr.
Bock, C. V., MA <i>Manc.</i> , DrPhil <i>Basle</i>	Lectr.
Kurn, Mary, MA <i>Oxon.</i>	Asst. Lectr.

**History**

Bindoff, S. T., MA	Prof.
Chew, Helena M., MA PhD	Reader
Leslie, R. F., BA PhD	Lectr.
Clementi, Dione R., MA DPhil <i>Oxon.</i>	Lectr.
Scarbrick, J. J., MA PhD <i>Camb.</i>	Lectr.
McDonnell, K. G. T., BSc(Econ) PhD	Lectr.
Williams, G., BA PhD	Asst. Lectr.

**Mathematics, Pure and Applied**

Ferraro, V. C. A., DIC, BSc PhD	Prof.
Hirsch, K. A., DPhil <i>Berl.</i> , PhD <i>Camb.</i>	(on leave) Prof.
.....	Reader
Green, S. L., MSc	Sr. Lectr.
Allen, H. S., PhD MSc	Sr. Lectr.
Chirgwin, B. H., MA <i>Oxon.</i> , BSc PhD	Sr. Lectr.
Tropper, Mrs. A. Mary, MSc PhD	Lectr.
Plumpton, C., MA <i>Camb.</i> , PhD	Lectr.
Gliddon, J. E. C., MSc	Lectr.
Weir, A. J., BA PhD <i>Camb.</i>	Lectr.
Gruenberg, K. W., BA PhD <i>Camb.</i>	Lectr.
Higgins, P. J., BA PhD <i>Camb.</i>	Lectr.
Simons, S., BA PhD <i>Camb.</i>	Lectr.
Learner, A., MA <i>Melb.</i>	Asst. Lectr.
Lovitch, L., MA <i>Camb.</i>	Asst. Lectr.

**Physics**

Jones, G. O., MA BSc <i>Oxon.</i> , PhD <i>Sheff.</i>	Prof.
Eisenschitz, R. K., DrPhil <i>Munich</i> , DSc, FIP	Prof.
Powles, J. G., MSc PhD <i>Manc.</i> , DesSc <i>Paris</i> , FIP	Reader
Ashmore, A., PhD <i>Liv.</i> , BSc, FIP	Reader
Irons, E. J., PhD DSc, FIP	Sr. Lectr.
Leech, J. W., BSc PhD, FIP	Sr. Lectr.
Heastie, R., BSc PhD	Lectr.
Davies, R. O., DPhil <i>Oxon.</i> , MSc <i>N.Z.</i>	Lectr.
Burfoot, J. C., MA PhD <i>Camb.</i>	Lectr.
Neale, F. E., BSc PhD <i>Nott.</i>	Lectr.
Sandor, E., DipPhys&Maths <i>Bud.</i>	Lectr.
Hird, B., BA DPhil <i>Oxon.</i>	Lectr.
Farquhar, I. E., BSc PhD <i>Aberd.</i>	Asst. Lectr.
Bastin, J. A., MA <i>Oxon.</i> , PhD	Asst. Lectr.
Newman, D. J., BSc PhD	Asst. Lectr.
1 Res. Fellow	

**Spanish Language and Literature**

Jones, R. O., MA	Reader
Harvey, I. P., MA DPhil <i>Oxon.</i>	Lectr.
Ingamells, Lynn E., BA	Asst. Lectr.
Barragán, J. V.	† Lectr.

**Zoology**

Smith, J. E., MA ScD <i>Camb.</i> , BSc PhD, FRS	Prof.
Newell, G. E., TD, DSc PhD	Prof.
Forrest, J. E., BSc <i>Edin.</i> , PhD	Sr. Lectr.
Carthy, J. D., MA <i>Camb.</i> , PhD	Lectr.
Freeman, R. F. H., BSc MA <i>Camb.</i>	Lectr.
Simkiss, K., BSc PhD <i>R'dg.</i>	Asst. Lectr.
Goodman, Lesley J., BA <i>Camb.</i> , PhD <i>Liv.</i>	Asst. Lectr.
Munro Fox, Prof. H., MA <i>Camb.</i> , FRS	Hon. Res. Assoc.

**ADMINISTRATIVE AND OTHER STAFF**

Warden of Men's Hostel: B. H. Chirgwin, MA *Oxon.*, BSc PhD. Warden of Women's Hostel:

Dorothea M. Grove, MA BSc *Oxon.*, PhD. Tutor to Women Students: Peggy P. Holmes, BA PhD.

**GENERAL INFORMATION**

Queen Mary Coll. derives from the New Philosophical Institute founded in the earlier part of the 19th cent. by J. T. Barber Beaumont to provide educn. for people of the East End. He died in 1841, providing in his will a trust fund for continuation of the inst. The trustees later became associated with the Drapers' Co., with whose assistance the People's Palace Technical Schs. were opened in 1887, superseding the New Philosophical Inst. and later known as East London Technical Coll. With addn. of arts courses, the

name was changed to East London Coll. In 1907 univ. recognition was granted for instructn. for bachelor's and higher degrees in arts, sci. and engin. and in 1915 the coll. was admitted as a sch. of the univ. A royal charter was granted in 1934 when the coll.'s name was altered to Queen Mary Coll. in acknowledgment of the honour accorded by Queen Mary in presenting the charter. Queen Mary became the first patron and hon. fellow of the coll.

Governed by governors who incl. master and

clerk of Drapers' Co. and reps. of L.C.C., univ. and staff. A sch. of the univ. in arts, sci. and engin.

**FACULTIES AND DEANS.** *Arts*, Prof. J. P. Collas (French); *engin.*, Prof. A. D. Young (aero. engin.); *sci.*, Prof. G. O. Jones (phys.). Tutor for *med. students*, P. J. Wanstall (bot.).

**TUTORS TO GENERAL STUDENTS.** *Arts*, Dr. B. H. Chirgwin (maths.); *sci.*, Dr. M. F. Ansell (chem.).

**COLLEGE PRECINCT.** With the exception of biol. establs. listed under 'Labs.' all the coll. bldgs. are contained in 3 continuous sites fronting on Mile End Rd. Devel. continues on each of these 3 sites.

**LIBRARY.** About 70,000 vols.

**LABORATORIES** for res. in phys., chem., electr. engin.; nuclear engin.; Whitstable lab. for study of marine biol.; bot. field stn. at Dytechleys.

**ADMISSION.** See p. 965 and Appendix II.

**FIRST DEGREES** (of Univ. of London). The coll. provides courses for degrees of the Univ. of London as listed below. BA (3 yrs.): hons. in classics, Latin, Engl., French, geog., German, hist., maths., Spanish, and (3 subjs.) general. BSc (3 yrs.): special degree in bot., chem., geog., geol., maths., phys., zool., and (3 subjs.) general. BSc(Eng) (3 yrs.): aeronaut., civil, electr., mech.

**HIGHER DEGREES** (of Univ. of London). MA, MSc, MSc(Eng) and PhD may be taken in all subjs. listed in preceding paragraph; period of study generally not less than 2 yrs. Except in maths., when a master's degree may be obtained by means of a course of instructn., all higher degrees involve res. under supervision.

**DIPLOMA.** A 1 yr. course for the Queen Mary Coll. dipl. in nuclear engin. may be taken by hons. grads. in engin., sci. or maths. or students having equivalent qualifs.

**FEES.** Undergrad. (incl. union membership): arts, £50 p.a.; sci., engin., med., each £65 p.a. Postgrad. (incl. union membership): arts, £35 p.a.; geog. (arts or sci.), £50 p.a.; sci., engin., each £65 p.a. Dipl. in nuclear engin., £90.

**ACADEMIC YEAR.** Oct. to July; 3 terms of 10 weeks each.

**RESIDENCE, ETC.** For men (fees for residence and partial bd.: from £105 p.a.): Elmhurst, 89 High Rd., S. Woodford, London, E.18 (tel.: Buckhurst 1541); accomm. 33 students. For women (fees for residence and partial bd.: £120 p.a.): Lynden Hall, 91 High Rd., S. Woodford, London, E.18 (tel.: Buckhurst 1546); accomm. 40 students.

**STAFF RESIDENCE.** The house standing in the coll. sports grounds at Dytechleys provides 5 flats for academic staff.

**ENTRANCE SCHOLARSHIPS AND EXHIBITIONS.** These incl. 6 scholps. (4 for men, 2 for women), value £75 p.a., and 4 exhibitions, value £40 p.a., all for 3 yrs., awarded by the Drapers' Co. in Feb. of each yr. on the result of the inter-collegiate scholarships exam. The governors award 10 coll. exhibitions, value £40 p.a. for 3 yrs., on the result of the same exam. In addn., coll. bursaries value £40 p.a. may be awarded from time to time to students entering their 2nd or later yrs. All these awards are eligible for supplementation by the Ministry of Educn.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**STUDENT HEALTH SERVICE.** A med. officer visits the coll. weekly during the first 2 terms of the session. All students attend mass X-ray during the first term of the session.

**GRADUATES' ASSOCIATIONS.** The old students' assocn. was founded in 1909 to provide past students with opportunities for meeting each other and for maintaining their interest in the coll.

**STUDENTS' UNION.** The union soc. officially represents the student body. It has in affiliation a large number of clubs and socs. which cater for the intellectual, soc. and athletic needs of students. There is a sports ground at Dytechleys, Coxtie Green, near Brentwood.

**PUBLICATIONS.** *Prospectus*; *Calendar*, 5s.; *Annual Report*; student publicns.: *The Leopardess*, 1s.; *The Cub*, 4d.

## THE YEAR 1959

**RESIGNATIONS.** Prof. M. J. S. Dewar (chem.), apptd. to chair of chem., Chic.; Dr. R. F. Hudson (chem.), apptd. section leader of res. group, Geneva; Dr. G. B. Walker (electr. engin.), apptd. res. prof., Br. Col.

**DEATHS.** Dr. H. D. K. Drew (reader in org. chem., 1930-47); Emer. Prof. J. T. McGregor-Morris (prof. of electr. engin., 1926-38).

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	983	40
Women . . .	306	17
Total	1289	57

Distribution by Faculties. *Arts*, 439; *engin.*, 338; *med.*, 40; *sci.*, 529. Total: 1346.

*Included in the figures above are :—*

Postgraduate students, 180.

New admissions, 406 (full-time).

Students from other countries, 86. (Countries

from which largest numbers came : U.S.A., 14; Germany, 9; India, 9).

DEGREES AWARDED (by Univ. of London) (1958–59). *Arts*: BA, 14; BA (hons.), 89; MA, 3. *Engin.*: BSc(Eng), 65; MSc(Eng), 2. *Sci.*: BSc, 15; BSc (hons.), 107; MSc, 2. PhD (all facs.): 40. Total number of first degrees awarded, 290.

[Information compiled as at 29/7/60]

## ROYAL HOLLOWAY COLLEGE\*

Founded 1886

*Postal Address*: Englefield Green, Surrey, England

*Cables and Telegrams*: Royal Holloway College, Englefield Green

*Telephone*: Egham 3751

CHAIRMAN OF THE COUNCIL—Sir JOHN CAMERON, Bt., MA LLB *Camb.*

PRINCIPAL—EDITH C. BATHO, MA DLit

SECRETARY—DOROTHY HUSTLER, MBE

REGISTRAR—E. DOROTHY P. PARGITER, BA

LIBRARIAN—FLORENCE R. ELLISON, BA Br. Col., FLA

### TEACHING STAFF

#### Botany

Jane, F. W., PhD DSc Prof.  
Madge, Margaret A. P., BSc PhD  
Sr. Lectr., Asst. Dir., Bot. Lab.  
Paxton, R. G., MSc *Durh.* Lectr.  
Evans, J. H., BSc PhD Lectr.  
Kerr, Janet E., PhD Asst. Lectr. & Demr.  
Lodge, E., PhD Asst. Lectr. & Demr.  
Wadsworth, R. M., PhD *R'dg.* Asst. Lectr.  
Topping, Mrs. M. Phyllis, BSc PhD  
(Biol.) Hon. Res. Asst.

1 Botanical Gardener

#### Chemistry

Bourne, E. J., PhD DSc *Birm.*, FRIC Prof.  
Foster, A. G., BA BSc *Oxon.*, PhD Reader  
Singer, K. G., PhD *Glas.*, BSc Lectr.  
Bonner, T. G., PhD DSc, FRIC Lectr.  
Weigel, H., DiplChem DrRerNat  
*T.H.Aachen* Lectr.  
Peters, D., BSc PhD (on leave) Lectr.  
Pridham, J. B., BSc PhD *Brist.* Lectr.  
Finch, A., DIC, PhD Lectr.  
Lewis, D., BSc PhD *Hull* Asst. Lectr. & Demr.  
6 Res. Fellows

#### Classics

Tredennick, H., MA *Camb.* (on leave) Prof.  
Miller, Norma P., MA *Glas. & Camb.* Lectr.  
Wilford, F. A., MLitt *Camb.*, MA Lectr.  
Wild, Jennifer M., MA *N.Z.*, BA *Camb.* Asst. Lectr.

#### English

Kane, G. J., BA Br. Col., MA *Tor.*, PhD Prof.  
Tompkins, Joyce M. S., MA DLit Reader  
Green, Hilda A. C., MA Sr. Lectr.  
Morgan, Margery M., MA Lectr.  
Hyde, Isabel, MA MLitt *Camb.* Lectr.  
Ball, Patricia M., MA *Leeds*, PhD *Nott.* Asst. Lectr.

#### French

Hunt, H. J., MA DPhil *Oxon.* Prof.  
West, Constance B., MLitt *Camb.*, PhD Sr. Lectr.  
Brereton, Georgine E., BA BLitt *Oxon.* Lectr.  
Goujard, Renée M. Lectr.  
Hastings, Mrs. Andrée M., BA *Leeds* Lectr.  
2 Assistantes

\* For women. (Men are admitted for postgraduate work.)

**German**

Tymms, R. V., MA *Oxon.* Prof.  
Jenkins, S. Patricia, MA Lectr.  
Salmon, P. B., MA PhD (on leave) Lectr.  
1 Assistantin

**History**

Hussey, Joan M., MA BLitt *Oxon.*,  
MA *Camb.*, PhD Prof.  
Latham, R. C., MA *Camb.* Reader  
Tomkinson, A., MA *Oxon.* Lectr.  
Cunningham, A. B., BA *Durh.*, MA PhD Lectr.  
Stoye, Enid D., MA *Oxon.*, PhD *Frib.* Lectr.  
Harvey, Margaret M., BA *Oxon.* Asst. Lectr.

**Mathematics**

McCrea, W. H., ScD *Camb.*, Hon.  
DSc *N.U.I.*, FRS Prof.  
Halberstam, H., MSc PhD Reader  
Bradburn, Mary, PhD *Edin.*, MSc Sr. Lectr.  
Yates, Barbara G., BA *Dub.*, PhD *Aberd.* Lectr.  
Reed, J. W., BSc *Syd.*, MSc Lectr.  
McDowell, M. R. C., BSc PhD *Belf.*,  
MA *Col.* Lectr.  
Hebborn, J. E., BSc PhD Asst. Lectr.  
Laxton, R. R., BSc Asst. Lectr.

**Music**

Scourse, Joan C., BMus Dir.  
Legge, B. Pompilia, MA *Oxon.* Asst. Dir.

**Physics**

Tolansky, S., PhD *Durh. & Lond.*,  
DSc *Manc.*, FRS Prof.  
Heavens, O. S., BSc PhD Reader  
Hutten, E. H., PhD *Berl.* Reader  
Smith, C. J., MSc PhD  
Sr. Lectr., Asst. Dir., Phys. Lab.  
Edmondson, A. S., MSc Lectr.  
Miller, R. F., BSc Asst. Lectr. & Demr.  
Allen, L., BSc Asst. Lectr. & Demr.  
1 Res. Fellow

**Zoology**

Butler, P. M., MA PhD *Camb.*, BSc Reader  
Thomas, Joan G., BSc PhD Lectr.  
Duncan, Annie, PhD *Liv.*, BSc Lectr.  
Binyon, E. J., BSc PhD Asst. Lectr. & Demr.  
Brown, J. C., BSc PhD *Brist.* Asst. Lectr. & Demr.  
Twigg, G. I., BSc PhD *Sheff.* Asst. Lectr. & Demr.  
1 Res. Fellow

**ADMINISTRATIVE AND OTHER STAFF**

Residence Officer : E. Mary Bone, BA *Oxon.*  
Principal's Private Sec. : Annie A. Divine, BA.  
Sr. Asst. to the Sec. : M. Betty de M. Beaumont,  
BSc *Edin.* Asst. Registrar : Josephine Fuller.

Domestic Bursar : Constance C. Strachan.  
Nurses : Marjorie G. Moss ; Mrs. Georgette  
Barlow.

**GENERAL INFORMATION**

Opened in 1886. A sch. of the univ. in the facs.  
of arts and sci. Became a corporate body, July  
1949.

LIBRARY. Approx. 56,000 vols.

LABORATORIES. Bot., chem., phys., zool. Bot.  
gdn.

ADMISSION. There is a scholp. and entrance  
exam., on the results of which admission is  
granted. See also p. 965 and Appendix II.

FIRST DEGREES (of Univ. of London). The  
coll. provides courses for degrees of the Univ. of  
London as listed below. 3 yrs.—BA (hons. and  
gen.) in classics, Greek (with Latin), Latin (with  
Greek), Engl., French, German, hist., maths. ;  
BA (gen.) music ; BSc (spec. and gen.) with, as  
main subj., bot., chem., maths., phys. or zool.

HIGHER DEGREES (of Univ. of London). MA  
and PhD in classics, Engl., French, German,  
hist., maths. ; MSc and PhD in bot., chem.,  
maths., phys., zool.

FEES. Tuition : undergrad. : arts, £45 p.a. ;  
maths. (arts or sci.), £50 p.a. ; sci., £60 p.a.  
Postgrad. : arts, £21 p.a. ; maths. (arts or sci.),  
£21 p.a. ; sci., £30 p.a. Residence, £180 p.a. ;  
use of amenities for non-resident students, £9 p.a.  
Theoric fee, covering union membership (com-

pulsory), 2 gs. p.a. (resident undergrad.) ; £1:1s.  
p.a. (non-resident undergrad. & resident post-  
grad.) ; 7s. p.a. (non-resident postgrad.). Sp.  
subjs. (music, elocution, etc.), 10s. 6d.—5 gs. a  
term. Registration, £2.

ENTRANCE SCHOLARSHIPS. Four £60 scholps.  
and eight £40 scholps. may be awarded each yr.  
Awarded on basis of entrance and scholp. exam. ;  
eligible for supplementation by Ministry of Educn. ;  
tenable for 3 yrs. subject to satisfactory progress.

POSTGRADUATE AWARDS open to grads. of other  
univs. : see p. 825.

RESIDENCE. Residential accomm. for over 350  
—students and staff.

STUDENT HEALTH SERVICE. Students are  
registered with the coll. doctor.

FACILITIES FOR ATHLETICS. There are facilities  
for athletics, cricket, hockey, lacrosse, netball,  
squash, tennis, gymnastics and swimming. Area  
of grounds, 95 acres.

PUBLICATIONS. *Calendar* (Oct.) ; *Prospectus*  
(July) ; *Coll. Letter* (old students' assocn.) (Dec.) ;  
*The Royal Holloway Coll., 1887-1937* (Old  
Students' Assocn., 1937, 0/p.).

# THE YEAR 1959

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	8	12
Women . . .	354	12
Total . . .	362	24

Distribution by Faculties. *Arts*, 188 ; *sci.*, 198.  
Total : 386.

*Included in the figures above are :—*

Postgraduate students, 47.

New admissions, 132.

Students from other countries, 16. (Countries from which largest numbers came : India, 3 ; U.S.A., 3).

DEGREES AWARDED (by Univ. of London) (1958-59). *Arts* : BA (hons.), 52 ; MA, 2. *Sci.* : BSc, 6 ; BSc (hons.), 40 ; MSc, 2. PhD (all facs.) : 4. Total number of first degrees awarded, 98.

[Information compiled as at 16/8/66]

## ROYAL VETERINARY COLLEGE

Founded 1791

*Postal Address* : Royal College Street, Camden Town, London, N.W.1, England

*Cables and Telegrams* : Veternosis, London

*Telephone* : Euston 5321

CHAIRMAN OF THE COUNCIL—Professor Sir CHARLES LOVATT EVANS, Hon. LLD *Birm. & Lond.*, DSc, FRCP, FRS

PRINCIPAL AND DEAN—R. E. GLOVER, MA *Camb.*, DSc, FRCVS

VICE-PRINCIPAL—Professor J. McCUNN, FRCS

BURSAR AND SECRETARY—H. W. J. ADAMS, MA *Oxon.*, FCIS

## TEACHING STAFF

### Anatomy, Veterinary

McCunn, J., FRCS	Prof.
Dyce, K. M., BSc DVMS <i>Edin.</i>	Lectr.
Merlen, R. H. A.	Lectr.
Drury, F. S.	Lectr.

### Biochemistry, Veterinary

Holton, F. A., MA PhD <i>Camb.</i>	Reader
Marchant, R. H., PhD BSc	Lectr.
Mayes, P. A., PhD BSc	Lectr.

### Animal Husbandry and Veterinary Hygiene

Laing, J. A., PhD <i>Camb.</i> , BSc <i>Edin.</i>	Courtaul
Harrop, A. E.	Prof.
Offord, E. C.	Sr Lectr.
Jewell, P. A., MA PhD <i>Camb.</i> , BSc(Agric) <i>R'dg.</i>	Lectr.
Green, D. A.	Lectr.
Williams, H. L., BSc <i>Wales</i>	Lectr.

### Biology

Jackson, J. H., MA BSc <i>Aberd.</i>	College Reader
Nisbet, R. H., PhD BSc	Lectr.
Bowes, B. G., BSc	Asst. Lectr.
Owen, I. L., PhD BSc <i>Wales</i>	Asst. Lectr.

### Chemistry and Physics

Clarke, E. G. C., MA <i>Oxon.</i> , PhD <i>R'dg.</i> , FRIC	Sr. Lectr.
Hawkins, A. E., BSc PhD, FIP	Lectr.
Shack, R., BSc	Asst. Lectr.
Robinson, Margaret I., BSc <i>S'ton.</i>	Asst. Lectr.
Taylor, Sheila A., BSc	Asst. Lectr.

### Bacteriology, Veterinary

Lovell, R., DSc DVSM <i>Manc.</i> , PhD	Prof.
Smith, J. E., BSc	Lectr.

**Histology and Embryology**

Creed, R. F. S., MA *Oxon.* Lectr.  
Scott, M. G. A. D., MSc Lectr.  
Lectr.

**Medicine, Veterinary**

Burrow, H., DVSM Prof.  
Allen, H. R. Reader  
Greatorex, J. C., PhD R'dg., FRCVS Sr. Lectr.  
Lewis, E. F. Sr. Lectr.  
Price, E. K. Lectr.  
Stratton, J. Lectr.  
Thomsett, L. R. Lectr.  
Asst. Lectr.

**Parasitology, Veterinary**

Oldham, J. N., BSc PhD *Edin.* Reader  
Beresford-Jones, W. P., MA *Camb.* Lectr.

**Pathology, Chemical**

Harvey, D. G., MBE, PhD BSc, FRIC Reader  
Wilkinson, J. S., PhD BSc Lectr.

**Pathology, Veterinary**

Cotchin, E., DSc Prof.  
Ingram, P. L., BSc Reader  
Hayward, A. H. S. Lectr.  
Appleby, E. C., PhD *Edin.*, BSc Lectr.

Blackmore, D. K., BSc Lectr.  
O'Shea, J. D., BVetMed Asst. Lectr.

**Pharmacology**

Schofield, Brenda M., BSc PhD *St.And.* Lectr.  
Keen, P. M., BVSc *Brist.* Lectr.

**Physics, see Chem.**

**Physiology, Veterinary**

Amoroso, E. C., PhD BSc MB BCh  
BAO *N.U.I.*, FRCS, FRs Prof.  
Bell, F. R., BSc *Durh.*, PhD, FRCVS  
(on leave) Sr. Lectr.  
Bishop, M. W. H., MA PhD  
DipAgricSc *Camb.* Lectr.  
Lawn, A. M., BSc Lectr.  
Finn, C. A., BSc Lectr.  
Shorthose, W. R., BSc *Nott.* Asst. Lectr.

**Surgery, Veterinary**

Formston, C., FRCVS Prof.  
Arthur, G. H., DVSc *Liv.*, FRCVS Reader  
Knight, G. C., FRCVS Reader  
Vaughan, L. C., FRCVS Lectr.  
Churchill Frost, R. Lectr.  
Tavernor, W. D., BVSc *Liv.* Lectr.  
James-Ashburner, P. W., BVSc *Brist.* Asst. Lectr.  
Asst. Lectr.  
Stock, J. E., BVetMed Asst. Lectr.  
Asst. Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Secretary : D. W. Gordon-Brown, BA  
*Wales.* Asst. Bursar : Matilda Benton. Ac-  
countant : J. M. R. Leslie. Librarian : .....  
Asst. Registrar : Rhiannon W. Roberts, BA *Wales.*

**GENERAL INFORMATION**

The Veterinary Coll. of London was formed in 1791 under the presidency of the Duke of Northumberland, beginning with 14 students upon the site at Camden Town that it occupies to-day. The coll. received its first charter of incorporation from Queen Victoria in 1875 and is now governed under a charter granted in 1956 by H.M. Queen Elizabeth. With the help of govt. grants and other donations the coll. was entirely rebuilt, and the new bldg. was officially opened in 1937. The coll., which since 1906 has had recog. teachers of the Univ. of London, was admitted as a sch. of the univ. in the fac. of med. with effect from Oct. 1949.

The LIBRARY (7000 vols.) includes a wide range of books and periodicals on vet. and allied subjects.

FIELD STATION. Hawkshead House, Hawkshead Lane, North Mimms, Hatfield, Herts. (tel. : Potters Bar 5486).

ADMISSION. See p. 965 and Appendix II.

FIRST DEGREE (of Univ. of London). The coll. provides courses for the degree of bachelor of vet. med. (BVetMed) of Univ. of London (5 yrs. 1 term) ; no exemption is allowed from any part of the course.

FEES. Undergrad. (incl. union membership), £65 p.a. ; postgrad., £30 p.a.

STUDENT HEALTH SERVICE. The coll. is affiliated to the student health assocn. of Univ. Coll., Lond. Students may consult the physician at stated times at the Royal Vet. Coll. and at all other times at the health centre of Univ. Coll.

STUDENTS' UNION. Clubs and socs., scientific, athletic and cultural, are open to all students.

PUBLICATIONS. *Prospectus* ; *Annual Report* ; *Incisor* (student magazine).

## THE YEAR 1959

**PRINCIPAL EVENT.** Official opening of new field station by H.M. The Queen on April 20, 1959.

**NEW DEPARTMENTS AND CHAIRS.** Courtauld chair of animal husb. & vet. hyg.; chair of vet. pathol.

**RETIREMENT.** Prof. T. J. Bosworth (pathol.).

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	348	—
Women . . .	31	—
Total	379	

Distribution by Faculties. *Med.* (vet. med.), 362; *sci.*, 7; *vet. sci.*, 10. Total: 379.

*Included in the figures above are:—*

Postgraduate students, 10.

New admissions, 69.

Students from other countries, 33. (Countries from which largest numbers came: Nigeria, 5; Uganda, 4).

DEGREES AWARDED (by Univ. of London) (1958-59). *Med.*: BVetMed, 50. *Sci.*: BSc (spec.), 1. Total number of first degrees awarded, 51.

DIPLOMAS AWARDED (1958-59). MRCVS, 7

[Information compiled as at 13/8/60]

## SCHOOL OF ORIENTAL AND AFRICAN STUDIES

Founded 1916

Postal Address: University of London, London, W.C.1, England

Cables and Telegrams: Soasul, Phone, London

Telephones: Langham 9021-8

PATRON—H.M. THE QUEEN

VISITOR—THE MINISTER OF EDUCATION

CHAIRMAN OF THE GOVERNING BODY—The Rt. Hon. THE LORD RADCLIFFE, GBE, MA

DIRECTOR—Professor C. H. PHILIPS, MA *Liv.*, PhD

SECRETARY—Lt.-Col. H. MOYSE-BARTLETT, MBE, MA *Oxon.*, PhD

LIBRARIAN—J. D. PEARSON, MA *Camb.*

### TEACHING STAFF

[† = Part-Time]

#### DEPARTMENT OF INDIA, PAKISTAN AND CEYLON

##### Bengali

Clark, T. W., OBE, MA

Das, S. K., MA *Calc.*

Boulton, J. V., BA

Sr. Lectr.

Lectr.

Asst. Lectr.

##### Hindi

Burton-Page, J. G., MA *Oxon.*

Keskar, Yamuna B., BA *Bihar*, MA *Patna*

McGregor, R. S., MA *Oxon.* & *N.Z.*

Lectr.

Lectr.

Lectr.

##### Indian Archaeology

Codrington, K. de B., MA *Camb.*

Milward, A. S., BA PhD

Prof.

Fellow

##### Indian Music

Bake, A. A., DLitt *Utrecht*, MA *Oxon.*

Reader

##### Indian Philosophy

Friedman, D., DLitt *Ley.*

Reader

**Marathi**

Lambert, Hester M., MA *Camb.*  
Raeside, I. M. P., BA PhD

Sr. Lectr.  
Lectr.

**Nepali**

Clark, T. W., OBE, MA  
Burton-Page, J. G., MA *Oxon.*

Sr. Lectr.  
Lectr.

**Oriya**

Boulton, J. V., BA

Asst. Lectr.

**Pali**

Jaini, P. S., MA *Bom.*, PhD

Lectr.

**Prakrit**

Williams, R. H. B., BA PhD

Lectr.

**Sanskrit**

Brough, J., MA *Camb. & Edin.*,  
DLitt *Edin.*

Prof.

Bake, A. A., DLitt *Utrecht*, MA *Oxon.*

Reader

Rylands, C. A., MA *Camb.*

Sr. Lectr.

Gray, J. E. B., BA *Dub.*

Lectr.

Staal, J. F., MSc *V.U.Amst.*, PhD *Madr.*

Lectr.

Wright, J. C., MA *Aberd.*, BA

Lectr.

**Sinhalese**

Reynolds, C. H. B., MA *Oxon.*, BA

Lectr.

**Tamil**

Asher, R. E., BA PhD

Lectr.

Marr, J. R., BA PhD

Lectr.

**Urdu**

Ahmad, A., BA *Osm. & Lond.*

Lectr.

Russell, R., MA *Camb.*, BA

Lectr.

## DEPARTMENT OF SOUTH-EAST ASIA AND THE ISLANDS

**Art and Archaeology of South-East Asia**

Christie, A. H., MA *Manc.*

Lectr.

**Burmese**

Pe, Hla, MA *Rangoon*, PhD

Reader

Allott, Mrs. Anna J., BA

Lectr.

**Cambodian**

Jacob, Mrs. Judith M., BA *Camb. & Leeds* †

Lectr.

**Malay**

Barrett, E. C. G., CMG, MA *Camb.*

Lectr.

Bottoms, J. C., MA *Camb.*

Lectr.

**Mon**

Shorto, H. L., MA *Camb.*

Lectr.

**Oceanic Languages**

Buse, J. E., PhD *Camb.*, BA

Lectr.

Milner, G. B., MA *Camb.*

Lectr.

**Old Javanese**

Hooykaas, C., DLitt *Ley.*

Reader

**Tai**

Simmonds, E. H. S., MA *Oxon.*

Lectr.

**Vietnamese**

Honey, P. J., BA

Lectr.

## DEPARTMENT OF THE FAR EAST

**Asian Art**

Sullivan, D. M., MA *Camb.*, PhD *Harv.*,  
BA

Lectr.

**Chinese**

Twitchett, D. C., MA PhD *Camb.*

Prof.

Whitaker, Mrs. Katherine P. K., BA *H.K.*,  
MA *Oxon.*, PhD (Classical C.)

Reader

Cheng, H., BA *Yenching*

Lectr.

Chin, Mrs. Grace S., BA *Nan-Yang*  
(Cantonese)

Lectr.

Chinnery, J. D., BA PhD

Lectr.

Downer, G. B., BA

Lectr.

Graham, A. C., MA *Oxon.*, BA PhD

Lectr.

Hanan, P. D., MA *N.Z.*, BA PhD

Lectr.

Lee, Y., MA *Peking* (C. Epigraphy)

Lectr.

Liu, Mrs. Yin C.

Lectr.

Simon, H. F., BA

Lectr.

Ways, G. F., BA

Lectr.

**Chinese Philosophy**

Lau, D. C., BA *H.K.*, MA *Glas.*

Lectr.

**Japanese**

Daniels, F. J., BSc(Econ)

Reader

Dunn, C. J., BA

Lectr.

Mills, D. E., MA *Camb.*, BA

Lectr.

O'Neill, P. G., BA PhD

Lectr.

Saigo, N., BA *Tokyo*

Lectr.

Yanada, S., MEcon *Tokyo*

Lectr.

**Korean**

Skillend, W. E., MA PhD *Camb.*

Lectr.

**Mongolian**

Bawden, C. R., MA PhD *Camb.*

Lectr.

**Tibetan**

Snellgrove, D. L., MA *Camb.*, PhD

Reader

## DEPARTMENT OF THE NEAR AND MIDDLE EAST

**Akkadian**

Sagge, H. W. F., BD MTh MA PhD

Lectr.

## Ancient Semitic Languages and Civilizations

Prof.



**Arabic**

- Serjeant, R. B., MA *Edin.*, PhD *Camb.*  
(Mod. Arabic) Prof.  
Arafat, W., BA PhD Lectr.  
Bakr, E. Y., BA *Cairo*, PhD Lectr.  
Cowan, D., MA Lectr.  
Hopkins, J. F. P., BA *Camb.*, PhD Lectr.  
Johnstone, T. M., BA BCom Lectr.  
Norris, H. T., MA *Camb.* Lectr.  
Sayigh, T., BA *Beirut* Lectr.

**Aramaic and Syriac**

- Segal, J. B., MC, MA *Camb.*, DPhil *Oxon.* Reader

**Armenian**

- Dowsett, C. J. F., MA PhD *Camb.* Lectr.

**Caucasian Studies**

- Lang, D. M., MA PhD *Camb.*, DLit Reader

**Central Asian Art and Archæology**

- Bivar, A. D. H., MA DPhil *Oxon.* Lectr.

**Central Asian Studies**

- Henning, W. B., DrPhil *Göt.*, FBA Prof.  
Boyce, Norah E. M., MA PhD *Camb.*  
(Iranian) Lectr.

**Hebrew, Modern**

- Gertner, M. Lectr.

**Iranian Languages**

- MacKenzie, D. N., MA PhD Lectr.

**Islamic Art and Archæology**

- Rice, D. S., DU *Paris*, DLit, FSA Prof.

**Middle Eastern Studies**

- O'Brien, P. K., BSc(Econ) Res. Fellow

**Persian**

- Lambton, Ann K. S., OBE, BA PhD DLit Prof.  
Gandjei, T. O., BA *Istanbul*, DrèsL *Rome* Lectr.  
Haidari, A. A., MA *McG.* Lectr.  
Savory, R. M., MA *Oxon.*, PhD Lectr.

**Turkish**

- Wittek, P. A., DrPhil *Vienna* Prof.  
Mundy, C. S., BA Sr. Lectr.  
Gökay, O. S., BA *Istanbul* Lectr.  
Ménage, V. L., MA *Camb.*, BA Lectr.

**DEPARTMENT OF AFRICA****African Languages, Central**

- Richardson, I., BA *Leeds*, PhD Lectr.

**African Languages, East**

- Tucker, A. N., MA *Cape T.*, PhD DLit Prof.

**African Languages, West**

- Berry, J., BA *Leeds*, PhD Prof.

- Arnott, D. W., MA *Camb.* Lectr.  
Innes, G., MA *Aberd.* Lectr.  
Rowlands, Rev. E. C., MBE, MA *Camb.* Lectr.  
Stewart, J. M., MA *Edin.*, LèsL *Paris* Lectr.  
Wilson, W. A. A., BA *Camb.* Lectr.  
Winston, F. D. D., BA *Camb.* Lectr.

**African Music**

- Jones, Rev. A. M., MA *Oxon.* Lectr.

**Bantu Languages**

- Guthrie, M., PhD BSc(Eng) Prof.  
Whiteley, W. H., BA PhD Reader  
Atkins, W. G., MA *Oxon.*, DPhil *Prague* Lectr.  
Benson, T. G., MA *Camb.* Lectr.  
Green, Margaret M., MA *Camb.* †Temp. Lectr.  
Rycroft, D. K., BA *Rand* Lectr.  
Westphal, E. O. J., MA *Rand*, PhD  
(S. Bantu Langs.) Lectr.

**Cushitic Languages**

- Andrzejewski, B. W., MA *Oxon.* Lectr.

**Hausa**

- Parsons, F. W., BA *Oxon.* Lectr.

**Swahili**

- Harries, Rev. L. P., MA *Oxon.*, PhD Lectr.

**DEPARTMENT OF PHONETICS AND LINGUISTICS****Comparative Linguistics**

- Lyons, J., MA *Camb.* Lectr.

**General Linguistics**

- Bazell, C. E., MA *Oxon.* Prof.  
Robins, R. H., MA *Oxon.* Reader

**Linguistics**

- Mitchell, T. F., BA Reader  
Okell, J. W. A., BA *Oxon.* Asst. Lectr.

**Phonetics**

- Scott, N. C., BA BSc Prof.  
Henderson, Eugénie J. A., BA Reader  
Carnochan, J., BA Sr. Lectr.  
Whitley, Mrs. Eileen M., BA Sr. Lectr.  
Jones, W. E., MA *Leeds* Lectr.  
Sharp, A. E., MA *Camb.* Lectr.  
Sprigg, R. K., MA *Camb.* Lectr.  
Waterson, Mrs. Natalie, BA Lectr.

**DEPARTMENT OF HISTORY****Economic History of Eastern Asia**

- Broadbridge, S. A., BSc(Econ) PhD Res. Fellow  
Le Fevour, E. T., BA *Chic.*, MA *Dub.* Res. Fellow  
Walker, K. R., BA *Leeds*, DPhil *Oxon.* Res. Fellow

**Economic History of South-East Asia**

Caldwell, J. A. M., MA *Edin.*, PhD *Nott.*  
Res. Fellow

**Economics of the Near and Middle East**

Penrose, Mrs. Edith T., AB *Calif.*, MA  
PhD *Johns H.* Reader

**History of Africa**

Oliver, R. A., MA PhD *Camb.* Reader  
Fage, J. D., MA PhD *Camb.* Lectr.  
Jones, D. H., MA *Liv.* (West A.) Lectr.

**History of South Asia**

Philips, C. H., MA *Liv.*, PhD  
(Oriental H.) †Prof.  
Basham, A. L., BA PhD, FSA Prof.  
Ballhatchet, K. A., MA *Camb.*, PhD  
(Ind. H.) Reader

De Casparis, J. G., DLitt *Ley.*,  
PhD *Indonesia* (Anc. Ind. H.) Lectr.  
Hardy, P., MA *Camb.*, PhD  
(Muslim Period) Lectr.  
Harrison, J. B., BA *Camb.* (Mod. Ind. H.) Lectr.

**History of South-East Asia**

Tinker, H. R., MA *Camb.*, PhD Prof.  
Cowan, C. D., MA *Camb.*, PhD Reader  
Wolters, O. W., OBE, MA *Oxon.* Lectr.

**History of the Far East**

Beasley, W. G., BA PhD Prof.  
Fraser, A., MA *Oxon.* Lectr.  
Gray, J., MA *Glas.* Lectr.  
Loewe, M. A. N., BA Lectr.

**History of the Near and Middle East**

Lewis, B., BA PhD Prof.

Holt, P. M., MA BLitt DPhil *Oxon.*  
Parry, V. J., MA *Oxon.*, BA *Wales*  
Wansbrough, J. E., BA *Harv.*  
Yapp, M. E., BA *Birm.*, PhD

Reader  
Lectr.  
Lectr.  
Lectr.

**DEPARTMENT OF LAW**

Anderson, J. N. D., OBE, MA LLD *Camb.*  
(Oriental L.) †Prof.  
Gledhill, A., MA *Camb.*, LLD (Oriental L.) Prof.  
Derrett, J. D. M., MA *Oxon.*, PhD  
(Oriental L.) Reader  
Allott, A. N., MA *Oxon.*, PhD  
(African L.) Reader  
Coulson, N. J., BA *Oxon.* (Islamic L.) Lectr.  
McAleavy, H., MA *Camb.*, BA *Manc.*  
(Chinese L.) Lectr.  
Read, J. S., LLB (African L.) Lectr.

**DEPARTMENT OF CULTURAL ANTHROPOLOGY****Asian Anthropology**

Fürer-Haimendorf, C. von, DrPhil *Vienna* Prof.  
Bailey, F. G., MA BLitt *Oxon.*, PhD *Manc.* Lectr.  
Mayer, A. C., BA *St. John's (Md.)*, PhD Lectr.  
Mendelson, E. M., MA *Camb.*, MA  
PhD *Chic.* Lectr.  
Nakane, Chie, MA *Tokyo* Temp. Lectr.

**East African Languages and Cultures**

Huntingford, G. W. B., BSc *Oxon.* Lectr.

**PERCIVAL DAVID FOUNDATION OF CHINESE ART****Chinese Art and Archaeology**

Hansford, S. H., MA DLit Prof.

**ADMINISTRATIVE AND OTHER STAFF**

Dep. Sec.: J. R. Bracken, MA BLitt *Oxon.*  
Asst. Sec.: M. Gatehouse, BA *Camb.* Accountant  
Sheila E. H. Smith, BA, FCA. Asst. Accountant  
Mrs. Maureen Delabye, FCA. Registrar  
Kathleen M. Wooding, MA *Oxon.* Educn. Officer  
H. Blakemore, BA PhD. Student Health Adviser  
N. Malleson, MD, MRCP.  
Dep. Librarian: R. J. Hoy, BSc(Econ), FLA.

Asst. Librarians: J. Lust, BA; E. S. Murrell, BLitt *Oxon.*, MA *Camb.* & *Oxon.*; G. Schofield, BA.  
Editorial Asst.: Doris M. Johnson, MA *Camb.*

PERCIVAL DAVID FOUNDATION OF CHINESE ART.  
Sec.-Librarian: Betsy W. D. Martin, MA *Glas.*  
Curator: Margaret Medley, BA.

**GENERAL INFORMATION**

As a result of the recommendations of the Reay Cttee. in 1908, the sch. was establd. by royal charter in 1916 as the 'School of Oriental Studies, London Institution', in Finsbury Circus; it was granted the status of a sch. of the univ. and was later allocated space for a permanent (not yet fully

completed) bldg. on the Bloomsbury site of the univ. In 1938, among other amendments to the charter, the title of the sch. was changed to 'School of Oriental and African Studies'. During the second world war a large number of intensive courses were given for service personnel, esp.

in Chinese, Japanese, Burmese, Arabic, Turkish, Persian and Urdu, and much translation work was done for the various ministries as well as censorship duties. Largely as a result of the sch.'s initiative an inter-deptl. commission was set up under the Earl of Scarbrough's chairmanship to report on the provision for teaching and res. at univ. level in Oriental, Slavonic, E. European and African studies. The commission recommended \* a substantial expansion of existing facilities, and from 1947 large grants for Oriental and African studies have been made by the U.G.C. In accordance with the commission's recommendation that the whole field of Oriental and African studies should be developed in London, as against a more restricted devel. in other univs., the sch. devoted its energies in the first post-war quinquennium to building up strong, coherent academic depts., in which a proper balance is sought as between linguistic and cultural studies and the classical and mod. aspects of those studies. During the quinquennium 1952-57 expansion continued steadily, though at a slower rate, and the staff was strengthened by numerous new appts.

A sch. of the univ. in facs. of arts and laws.

**INCOME** (1958-59), £433,823 (principal sources : govt. grants, 87.2 per cent. ; contributions from official, foundation and private sources, 6.5 per cent. ; fees, 4.3 per cent. ; endowments, 2 per cent.).

**PERCIVAL DAVID FOUNDATION OF CHINESE ART**, 53 Gordon Square, London, W.C.1 (tel. : Euston 3909), attached to and administered by the sch., comprises collection of Chinese ceramics and associated library presented to univ. by Sir Percival David in 1950, to which was added in 1952 a large collection of Chinese monochrome porcelains given by the Hon. Mountstuart W. Elphinstone. Its object is promotion and teaching of art and culture of China and surrounding region.

**LIBRARY.** Over 220,000 printed books and pamphlets, and 1500 MSS., incl. approx. 16,000 books in the library of Sir Reginald Johnston.

**ADMISSION.** See p. 965 and Appendix II.

**FIRST DEGREES** (of Univ. of London). The sch. provides courses for the BA hons. degree (3 yrs.) of the Univ. of London in Arabic, Bengali, Burmese, classical Chinese, mod. Chinese, Hindi, classical Japanese, mod. Japanese, Malay, Marathi, Pali (with Sansk.), Persian, Sansk., Sinhalese, Tamil, Turkish, Urdu, hist. branch III, hist. branch IV, hist. branch V, African studies.

**HIGHER DEGREES** (of Univ. of London). Supervision provided for LLM, MA, PhD. LLM : courses and supervision in Hindu law, Muhammadan law, constitutional laws of India and Pakistan, African law. MA : courses and supervision in Indo-Aryan, Arabic, Persian, Hebrew &

Aramaic, Old & Middle Iranian, Turkish, Chinese, Japanese, Bengali, Hindi, Sinhalese, Tamil, Urdu, compar. philol., general linguistics & phonetics, hist., Oriental anthropol., Oriental archæol. PhD : candidates supervised in any subj. connected with Oriental or African langs., lit., culture or hist., subject to approval of hd. of appropriate dept.

Min. period of study for all higher degrees, 2 yrs.

**DIPLOMAS.** *Academic postgrad. dipls. of Univ. of London.* Instrucn. provided for all or part of the syllabus for dipls. in anthropol., colonial studies, Chinese archæol., Indian archæol., compar. philol., law, librarianship, phonetics.

*School dipls.* In certain African langs., African law, Arabic, Armenian, Bengali, Burmese, Chinese, Gujarati, Hebrew, Hindi, Islamic & compar. law, Japanese, Kurdish, Malay, Marathi, Pashto, Persian, Sinhalese, Tamil, Turkish, Urdu.

*School Special Dipls.* in Bantu langs., compar. grammar of the Indo-Aryan langs., Hebrew palæog. & epigraphy, Indian palæog. & epigraphy, Indian philos., Iranian, West African langs.

Duration of dipl. courses, 1 to 3 yrs. according to subj.

**CERTIFICATES.** Sch. grants certs., for which it provides instrucn., in phonetics, African law, Islamic & compar. law, Indian ethnog., African ethnog. Duration of cert. course, 1 to 2 yrs. according to subj.

**COMMERCIAL COURSES.** Advanced courses (3½ days' duration) for business executives and others arranged at rate of one per vacation on the econ., pol. and soc. problems of the various regions of Asia and Africa in turn. Details from educn. officer. Courses of lang. instrucn. for reps. of British commercial firms can be arranged on a whole-time or pt.-time basis for from 6 to 10 wks. in each of the 3 terms. Lectures on hist., culture, religions and customs can be included. Details from asst. sec.

**OVERSEAS CIVIL SERVICE COURSES.** Although most overseas civil service probationers are now assigned either to Oxford or to Cambridge for their prelim. trg., instrucn. in certain langs. continues to be provided at the sch. Short intensive courses are provided for probationers assigned to certain territories in Africa and S.E. Asia. Courses in langs. and Oriental and African laws are also provided for officers of the service on leave.

**STUDY LEAVE** regularly granted to enable members of staff to visit and pursue res. in the countries in Asia and Africa with which their studies are concerned. Normal duration : 1 academic yr.

**FEES.** Undergrad. : arts, £45 p.a. ; dipls. or sp. dipls., £45 p.a. Other regular courses : fees on applicn. to registrar. Postgrad. : arts and laws, £36 p.a. Registration fee on first admission,

\* *Oriental, Slavonic, East European and African Studies : Report of Inter-Departmental Commission of Enquiry* (H.M.S.O., 1947), o/p.

£1 : 1s. Union sub. (compulsory), 12s. 6d. per term.

**SCHOLARSHIPS, ETC.** Forlong scholps. (value approx. £300 p.a.) and Forlong exhibitions (value £50) are awarded as funds become available. 5 Governing Body undergrad. scholps. (value £40 p.a.) offered annually, 3 on results of exam. held by London Intercollegiate Scholps. Bd. and 2 on results of interview (tenable for 3 sessions). Governing Body postgrad. exhibitions (approx. £300 p.a.) tenable for 1 session with possibility of renewal. Max. of 2 exhibitors at any one time. Other ad hoc awards may be made to enable grads. of merit to complete work for a higher degree or second first degree (value dependent on individual circumstances). Millicent Harrington scholp. (not less than £120 p.a.), tenable for 2 sessions, with possibility of renewal for one further session for study of Tibetan or other langs.

relevant to Buddhist studies for a higher degree of Univ. of London, is awarded as funds become available. China Assocn. bursary (£250), tenable for 2 terms, for study of Chinese by student who has entered or intends to enter upon an indust. or comml. career. *See also* p. 825.

**STUDENT HEALTH SERVICE.** All sch. students able to consult student health adviser. Consulting rooms in No. 34 Woburn Sq. (tel.: Langham 9028, ext. 50).

**STUDENT UNION.** All sch. students entitled to facilities, incl. membership of jr. common room, facilities for sport and soc. clubs. Affiliated to univ. union (tel.: Langham 0916).

**PUBLICATIONS.** *Calendar* (free); *Annual Report* (free); *Bulletin* (30s. per part; 3 parts issued per yr.).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Rockefeller Foundation, \$250,000 in support of sch.'s res. programme during next 10 yrs.; \$250,000 towards cost of new libr. bldg.; \$57,920 for res. in Tibetan studies.

**NEW DEPARTMENTS AND CHAIRS.** Title of prof. of Islamic art & archæol. conferred on Dr. D. S. Rice.

**RETIREMENT.** Prof. D. G. E. Hall (hist. of S.E. Asia).

**RESIGNATIONS.** A. H. Hill (Malay), apptd. to Syd.; F. R. Allchin (Indian archæol.), apptd. lectr. in Indian studies, Camb.; M. A. Ghul (Arabic), apptd. lectr. in Semitic studies, St. And.; R. A. Hamilton (African hist.), apptd. warden, Livingstone Hall, Makerere; K. C. Rosser (Indian anthropol.), apptd. res. fellow, U.C. of Swansea.

**DEATHS.** H. C. Bowen (reader in hist. of nr. & middle east); B. Matsukawa (lectr. in Japanese, 1943-55).

\* Totals for the entire session 1959-60 were: full-time, 335 (266 m., 69 w.); pt.-time, 249 (189 m., 60 w.)

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year) \*

	Full-Time	Part-Time
Men . . .	235	100
Women . . .	66	34
Total . . .	301	134

Distribution by Faculties. *Arts*, 398; *laws*, 37. Total: 435.

Included in the figures above are:—

Postgraduate students, 147.

New admissions, 230.

Students from other countries, 236. (Countries from which largest numbers came: India, 72; U.S.A., 51; Pakistan, 36; Nigeria, 27).

**DEGREES AWARDED** (by Univ. of London) (1958-59). *Arts*: BA (hons.), 27; MA, 8; PhD, 22. *Laws*: LLM, 4.

**DIPLOMAS AWARDED** (1958-59), 1.

**CERTIFICATES AWARDED** (1958-59), 4.

[Information compiled as at 25/8/60]

## SCHOOL OF PHARMACY

Founded 1841; incorporated by Royal Charter 1952

Postal Address: 29-39 Brunswick Square, London, W.C.1, England

Telephone: Terminus 7651

CHAIRMAN OF COUNCIL—Sir HARRY JEPHCOCK, DSc Birm., MSc, FRIC

DEAN—Professor W. H. LINNELL, MSc PhD *Durh.*, DSc, FRIC  
CLERK TO THE COUNCIL AND SECRETARY—S. R. CURTIS, BA, FCA

## TEACHING STAFF

### Pharmaceutical Chemistry

Linnell, W. H., MSc PhD <i>Durh.</i> , DSc, FRIC	Prof.	Roberts, T. A., BPharm	Asst. Lectr.
Saunders, L., DSc PhD, FRIC	Reader	Lewis, C. J., BPharm	Asst. Lectr.
Mathieson, D. W., BSc <i>Glas.</i> , PhD	Reader	Lund, Barbara M., BSc <i>Manc.</i> , MPharm <i>Nott.</i>	Asst. Lectr.
Sharp, L. K., BSc PhD, FRIC	Sr. Lectr.		
Fleming, R., BPharm PhD	Lectr.		
Gilbert, J. N. T., BPharm, PhD	Lectr.		
Glenn, A. L., BPharm, BSc PhD	Lectr.		
Chapman, G. T., BPharm	Asst. Lectr.		

### Pharmaceutics

Shotton, E., BSc PhD, FRIC	Prof.
Cook, A. M., BPharm PhD DipBact, FRIC	Reader
Train, D., MC, DIC, BPharm BSc(Eng) PhD, FRIC	Reader
Briggs, A., BPharm PhD	Lectr.
Brown, W. R. L., BPharm	Lectr.
Ridout, C. W. T.	Lectr.
Wibberley, K., BPharm	Lectr.
Bergman, L., BPharm	Asst. Lectr.
Brown, M. R., MSc <i>Manc.</i>	Asst. Lectr.

### Pharmacognosy

Fairbairn, J. W., BSc PhD, FRIC, FLS	Prof.
Betts, T. J., BPharm	Lectr.
Challen, S. B., BPharm BSc PhD, FLS	Lectr.
Lavender, C., BPharm	Asst. Lectr.

### Pharmacology

Buttle, G. A. H., OBE, MA <i>Camb.</i>	Wellcome Prof.
West, G. B., DSc PhD BPharm	Reader
Barrett, A. M., BPharm PhD	Lectr.
Bowman, W. C., BPharm PhD	Lectr.
Callingham, B. A., BPharm PhD	Lectr.
Blaber, I. C., BPharm	Asst. Lectr.
Block, B. P., BPharm	Asst. Lectr.
Cass, Rosemary, BSc PhD <i>St.And.</i>	Asst. Lectr.
Spencer, P. S. J., BPharm	Asst. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Librarian : A. J. Evans, BPharm

## GENERAL INFORMATION

The sch., founded by the Pharmaceutical Soc. of Gt. Britain in 1841, was admitted as a sch. of the univ. in 1925. Control of the sch. was transferred from the Pharmaceutical Soc. to a company limited by guarantee in 1949. A royal charter of incorporation was granted to the sch. in 1952. The council of the sch., as now constituted, includes reps. of the Univ. of London, the Pharmaceutical Soc. and the academic bd., as well as certain co-opted members. There is an academic bd. which acts in an advisory capacity.

The sch. is now housed in a new bldg. in Brunswick Sq. which was officially opened by H.M. The Queen Mother in April 1960.

**LIBRARY.** All students are entitled to use the library of the Pharmaceutical Soc. in Bloomsbury Sq.

**ADMISSION.** The sch. is open to men and women students. For admission requirements

see p. 965 and Appendix II. Foreign students are admitted on the same terms as British, but are expected to produce identification papers.

**FIRST DEGREE** (of Univ. of London). All undergrad. entrants to the sch. work for the BPharm hons. degree (3 yrs.).

**HIGHER DEGREES** (of Univ. of London). MPharm and PhD in pharmaceutical chem., pharmaceutics, pharmacol., pharmacognosy, pharmaceutical engin. sci. All depts of the sch. are available for postgrad. and res. work, and the respective profs. and hds. of depts. are always prepared to advise students wishing to undertake res.

**FEES.** Composition fee (incl. union membership), £64 p.a.

**PUBLICATIONS.** *Prospectus*; *Calendar*.

## THE YEAR 1959

RESIGNATIONS. Dr. P. H. Elworthy (pharmaceut. chem.), to Royal Coll. of Sci. & Technol., Glasgow; Dr. Robinson, to S.-W. Essex Tech. Coll.; D. A. Redston, to Inst. of Child Health, London, W.C.1.

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	118	1
Women . .	60	—
Total	178	

Included in the figures above are :—

Postgraduate students, 22.

New admissions, 48.

Students from other countries, 26. (Country from which largest number came : Nigeria, 6).

DEGREES AWARDED (by Univ. of London)  
(1958-59). BPharm (hons.), 39; MPharm, 1; PhD, 7.

[Information compiled as at 18/8/60]

## UNIVERSITY COLLEGE

Founded 1826; incorporated in the University of London, 1907

Postal Address : Gower St., London, W.C.1, England

Cables and Telegrams : University College London

Telephone : Euston 7050

CHAIRMAN OF THE COLLEGE COMMITTEE—The Rt. Hon. LORD COHEN

VICE-CHAIRMAN OF THE COLLEGE COMMITTEE AND TREASURER—Sir FREDERICK JAMES, OBE

PROVOST—Sir IFOR EVANS, DLit

SECRETARY—E. A. L. GUETERBOCK, MA Camb.

LIBRARIAN—J. W. SCOTT, BA

## TEACHING STAFF

## Anatomy and Embryology

Young, J. Z., MA Oxon., DSc Brist., FRS  
(Anat.) Prof., Hd. of Dept.  
Abercrombie, M., MA BSc Oxon., FRS  
(Embryol.) Prof.  
Aitken, J. T., MD Glas. (Anat.) Reader  
Evans, D. H. L., MB BS (Anat.) Reader  
Ludford, R. J., DSc PhD (Cytol.) Hon. Lectr.  
Pritchard, E. A. B., MA MD, FRCP  
(Neurol.) Hon. Lectr.  
Bellairs, Mrs. M. Ruth, PhD Lectr.  
Deuchar, Elizabeth M., MA Oxon.,  
PhD Edin. Lectr.  
Gray, E. G., BSc PhD Wales Lectr.  
Guillery, R. W., BSc PhD (on leave) Lectr.  
Hamlyn, L. H., MB BS Lectr.

James, D. W., MB BS Lectr.  
Quilliam, T. A., PhD MB BS Lectr.  
Charlton, C. A. C., MB BS Asst. Lectr.  
Francis, H. J. L., BSc MB BS Asst. Lectr.  
Kidd, M., BSc MB BS Asst. Lectr.  
MacGregor Williamson, B. C., MB BS Asst. Lectr.  
Downer, J. L. de C., MSc McG.,  
PhD Johns H. Hon. Res. Assoc.  
Robertson, J. D., PhD M.I.T., BS Alabama,  
MD Harv. Hon. Res. Assoc.  
Taylor, W. K., MSc Manc., PhD  
Hon. Res. Assoc.  
3 Res. Assts., 1 Asst., 5 Hon. Res. Assts.,  
1 Hon. Radiologist, 1 Hon. Vet. Con-  
sultant, 1 Radiographer, 1 Artist

**Anthropology**

- Forde, C. D., PhD Prof.  
 Barnicot, N. A., PhD (Phys. A.) Prof.  
 Kaberry, Phyllis M., MA *Syd.*, PhD Reader  
 Douglas, Mrs. M. Mary, MA DPhil *Oxon.*  
 (on leave) Lectr.  
 Garlick, J. P., BA Lectr.  
 Middleton, J. F. M., BA BSc DPhil *Oxon.* Lectr.  
 Horton, W. R. G., BA Asst. Lectr.  
 Smith, Mrs. Marian W., MA PhD *Col.*  
 Hon. Res. Assoc.  
 2 Res. Assts., 1 Hon. Res. Asst.

**Archæology**, see also Egyptol.

(Classical Art &amp; Archæol.) Yates Prof.

**Architecture** (Bartlett School)

- Llewelyn Davies, R., MA *Camb.*, FRIBA Prof.  
 Musgrove, J., BArch *Durh.* Sr. Lectr.  
 White-Cooper, R. C., MC, BA, FRIBA  
 Tutor, Sr. Lectr.  
 Berry, H. C. (Div. of Decoration) Sr. Lectr.  
 Fisher, R. J. Lectr.  
 Foyle, A. M., BA PhD, FRIBA Lectr.  
 Goddard, D. Lectr.  
 Hoar, H. F., BA PhD, FRIBA Lectr.  
 Plant, C. G. H. Lectr.  
 Smeed, C. W. J., FRIBA Lectr.  
 Stammers, J. R., BA, FRIBA Lectr.  
 Watson, N. F., BArch *Durh.* Lectr.  
 Weeks, J. R. Lectr.

**Archives**, see Librarianship**Art** (Slade School of Fine Art)

- Coldstream, Sir William, CBE  
 Slade Prof., Hd. of Slade Sch.  
 Gerrard, A. H. (Sculpture) Prof.  
 Ettlinger, L. D., PhD *Halle*  
 (Hist. of A.) Durning-Lawrence Prof.  
 Townsend, W. Sr. Lectr.  
 Dickinson, T., BA *Oxon.* (Film) Sr. Lectr.  
 Carter, B. A. R., MA *Camb.* Lectr.  
 Forge, A. Lectr.  
 Rogers, C., OBE Lectr.  
 Jenkin, I. E. T., MA *Camb.* Sec., Tutor  
 Aldridge, J. A. M., BA *Oxon.* Asst.  
 Brooker, P. Asst.  
 Butler, R. Asst.  
 Charlton, G. J. Asst.  
 Claughton, R. B. Asst.  
 Collins, J. Asst.  
 Feild, M. Asst.  
 George, P. Asst.  
 Georgiadis, N. Asst.  
 Gross, A. Asst.  
 Haskell, F. J. H., MA *Camb.* Asst.  
 Jones, J. S. Asst.  
 Lamb, L. Asst.  
 McWilliam, F. E. Asst.  
 Monnington, W. T. Asst.  
 Nuttall-Smith, R., BA *Oxon.* Asst.

- Ormrod, F. Asst.  
 Richards, C., CBE Asst.  
 Snow, P. Asst.  
 Sutton, P. Asst.  
 Vaughan, K. Asst.

**Astronomy**

- Allen, C. W., DSc *W. Aust.*  
 Perren Prof., Dir. of Observatory  
 Garstang, R. H., MA PhD *Camb.*  
 Reader, Asst. Dir. of Observatory  
 Foster, E. W., BSc Lectr.  
 McNally, D., MSc *Belf.* Asst. Lectr.  
 1 Observer

**Bibliography**, see English and Librarianship**Biochemistry**

- Baldwin, E. H. F., PhD *Camb.* Prof.  
 Kerly, L. Margaret, MA *Camb.*, PhD Reader  
 Crook, E. M., MSc *Melb.*, PhD *Camb.* Reader  
 Datta, S. P., BSc MB BS Reader  
 Greenbaum, A. L., PhD DSc Reader  
 Clarke, Mrs. Patricia H., BA *Camb.* Lectr.  
 Law, Kathleen, MSc *Melb.*, PhD Lectr.  
 Mathias, A. P., PhD Lectr.  
 Rabin, B. R., MSc PhD Lectr.  
 Shooter, E. M., MA PhD *Camb.* Lectr.  
 Marginson, M. A., BSc *Melb.* Asst. Lectr.  
 Meadow, Pauline M., MA *Oxon.*, PhD Asst. Lectr.  
 Campbell, P. N., PhD Hon. Lectr.  
 Dent, Prof. C. E., BSc PhD MD, FRIC, Hon. Lectr.  
 FRCP  
 Gray, Prof. C. H., MD DSc, FRIC, Hon. Lectr.  
 FRCP  
 Rees, K. R., MSc PhD Hon. Lectr.  
 Warren, Prof. F. L., MA *Oxon.*, PhD DSc, Hon. Lectr.  
 FRIC  
 1 Res. Asst., 3 Hon. Res. Assts.

**Biometry**, see Eugenics**Biophysics**

- Katz, B., MD *Leip.*, PhD DSc, FRS Prof.  
 Fatt, P., BA *Calif.*, PhD Reader  
 Harris, E. J., DIC, PhD DSc Reader  
 Miledi, R., MD *Mexico* Lectr.  
 Niedgergerke, R., MD *Prague* Lectr.  
 Jenkinson, D. H., BA MSc *Dub.* Asst. Lectr.  
 Huxley, H. E., MBE, MA  
 PhD *Camb.*, FRS Hon. Res. Assoc.  
 Parkinson, J. L. Asst. & Faculty Supt.  
 3 Assts., 2 Hon. Res. Assts.

**Botany**

- Lewis, D., DSc, FRS Quain Prof.  
 Bell, P. R., MA *Camb.* Reader  
 Syrett, P. J., MA *Camb.* Reader  
 Fowden, L., PhD (Plant Chem.) Reader  
 White, D. J. B., PhD Sr. Lectr.  
 Chaloner, W. G., PhD *R'dg.* Lectr.  
 Mahoney, Monica F., MSc PhD Lectr.

Newbould, P. J., PhD Lectr.  
 Tristram, H., BSc *Sheff.* Lectr.  
 Wilkie, D., PhD *Glas.* Lectr.  
 Clymo, R. S., BSc Asst. Lectr.  
 Dixon, R. O. D., MSc (Biol.) Quain Student  
 Brink, Prof. R. A., MS *Ill.*, DSc *Harv.* Hon. Res. Assoc.  
 Fogg, Prof. G. E., PhD *Camb.*, BSc Hon. Res. Assoc.  
 Pearsall, Prof. W. H., DSc *Manc. & Durh.*, FRS Hon. Res. Assoc.  
 2 Res. Assts., 3 Hon. Res. Assts.

**Chemical Engineering**, see Engin., Chem.

### Chemistry

Ingold, Sir Christopher, DSc, FRS Prof., Dir. of Labs.  
 Hughes, E. D., PhD *Wales*, DSc, FRIC, FRS Prof., Dep. Hd. of Dept.  
 Lonsdale, Dame Kathleen, DBE, DSc, FRS Prof.  
 Nyholm, R. S., DSc, FRIC, FRS Prof.  
 Craig, D. P., MSc *Syd.*, DSc Prof.  
 Bunton, C. A., PhD Reader  
 Maccoll, A., MSc *Syd.*, PhD DSc Asst. Tutor, Reader  
 Millen, D. J., PhD Reader  
 Poole, H. G., MSc *Melb.*, PhD Reader  
 Wassermann, A., PhD *Munich*, DSc Reader  
 Day, J. N. E., MSc PhD Sr. Lectr.  
 Banthorpe, D. V., PhD Lectr.  
 Callomon, J. H., DPhil *Oxon.* Lectr.  
 Davies, A. G., DSc, FRIC Lectr.  
 Dunn, T. M., MSc *Syd.*, PhD Lectr.  
 Figgis, B. N., MSc *Syd.*, PhD *N.S.W.U.T.* Lectr.

Lewis, J., PhD *Nott.*, DSc Lectr.  
 Milledge, Mrs. H. Judith, MSc *S.A.*, PhD Lectr.  
 Pauling, P. J., BS *Cal.Tech.*, PhD Lectr.  
 Pocker, Y., MSc *Jerusalem*, PhD DSc Lectr.  
 Ridd, J. H., PhD Lectr.  
 Tobá, M. L., PhD Lectr.  
 Vernon, C. A., BSc Asst. Tutor, Lectr.  
 Cooper, R. E., PhD Asst. Lectr.  
 Fuller, M. W., BSc *W.Aust.* Asst. Lectr.  
 Klassen, N. V., PhD *McG.* Asst. Lectr.  
 Strachan, W. M. J., BSc *Tor.* Asst. Lectr.  
 Patai, Prof. S., MSc PhD *Jerusalem* Hon. Res. Assoc.  
 Yamada, Prof. S., DSc *Osaka* Hon. Res. Assoc.  
 10 Hon. Res. Assts.

**Civil and Municipal Engineering**, see Engin., Civil

### Classics

Skutsch, O., DrPhil *Gött.* (Lat.) Prof.  
 Webster, T. B. L., MA *Oxon.*, LittD *Dub.*, FSA (Gk.) Prof.  
 Turner, E. G., MA *Oxon.*, FBA (Papyrology) Prof.

Szemerényi, O. J. L., DrPhil *Bud.* (Compar. Philol.) Prof.  
 Browning, R., MA *Glas. & Oxon.* (Lat. & Gk.) Reader  
 Furley, D. J., MA *Camb.* (on leave) (Gk. & Lat.) Reader  
 McLellan, R. D., PhD (Lat. & Gk.) Sr. Lectr.  
 Kells, J. H., MA *Camb.* (Lat. & Gk.) Asst. Tutor, Sr. Lectr.  
 Coffey, M., MA PhD *Camb.* (Lat. & Gk.) Lectr.  
 Cunningham, Margaret L., MA *Oxon.* (Gk. & Lat.) Lectr.  
 Handley, E. W., MA *Camb.* (Gk. & Lat.) Lectr.  
 Willis, J. A., PhD (Lat. & Gk.) Lectr.  
 Lowe, Joyce E., MA (Lat.) Asst.  
 Broadhead, Prof. H. D., MA *Camb.*, LittD *N.Z.* (Gk.) Hon. Res. Assoc.

**Comparative Philology**, see Classics

**Danish**, see Scand. Studies

**Dutch History and Institutions**, see Hist.

**Economics**, see Polit. Econ.

### Egyptology and Coptic

Emery, W. B., MBE, MA *Liv.*, DLit, FBA, FSA Edwards Prof.  
 Arkell, A. J., MBE, MC, DLitt *Oxon.*, FSA (Egyptian Archæol.) Reader  
 Faulkner, R. O., FSA Lectr.

**Electrical Engineering**, see Engin., Electr.

**Embryology**, see Anat.

### Engineering, Chemical

Donald, M. B., MSc *M.I.T.*, FRIC Ramsay Memorial Prof.  
 Barnard, J. A., DIC, PhD Lectr.  
 Chayen, R., DIC, BSc PhD, FRIC Lectr.  
 Mullin, J. W., BSc *Wales*, PhD, FRIC Lectr.  
 Ridgway, K., BSc PhD Lectr.  
 Thorp, H. W., BSc Lectr.  
 Webb, F. C., DIC, PhD (Biochem. Engin.) Guinness Lectr.  
 Lunt, R. W., MSc PhD *Liv.*, MSc(Eng), FIP Hon. Lectr.  
 Hixson, Prof. A. N., PhD *Col.* Hon. Res. Assoc.  
 1 Hon. Res. Asst.

### Engineering, Civil and Municipal

Chadwick Prof., Dir. of Civil & Mun. Engin. Labs.  
 Thompson, E. H., OBE, BA *Camb.* (Surveying & Photogrammetry) Prof., Actg. Hd. of Dept.  
 Miskin, E. A., MA *Oxon.*, BSc *Sheff.*, PhD (Photogrammetry) Reader  
 Biddle, C. A., MA *Camb.* Sr. Lectr.



Jessop, H. T., TD, MSc, FIP  
(Photoelasticity) Sp. Lectr.  
Walton, Prof. W. S., GM, MD BHy  
DPH *Durh.* (Hyg.) Sp. Lectr.  
Allison, I. M., BSc(Eng) PhD Lectr.  
Brain, R., MEng *Liv.* Lectr.  
Christodoulides, S. P., BSc(Eng) PhD Lectr.  
Elvery, R. H., BSc(Eng) Lectr.  
Ives, K. J., BSc(Eng) PhD Lectr.  
Kemp, K. O., BSc(Eng) Lectr.  
Kemp, P. H., BSc(Eng) PhD Lectr.  
Mroz, A., DiplIng *Warsaw* Lectr.  
Snell, C., MSc Lectr.  
1 Asst., 1 Res. Asst., 1 Hon. Res. Asst.

### Engineering, Electrical

Barlow, H. E. M., BSc(Eng) PhD, MIEE  
Pender Prof., Dir. of Labs.  
Brailsford, F., BSc(Eng) PhD, MIEE Prof.  
Brown, J., MA *Edin.*, PhD DSc(Eng) Reader  
Brookes, B. C., MA *Oxon.* Sr. Lectr.  
Marriott, H., BEng *Sheff.*, BSc(Econ),  
MIEE Sr. Lectr.  
Taylor, W. K., MSc *Manc.*, PhD Sr. Lectr.  
Effemey, H. G. Lectr.  
Gimson, C. E., MSc(Eng) *Nott.* Lectr.  
Kenshole, G. E., BSc(Eng) BA Lectr.  
Parr, G., MIEE Lectr.  
Sims, G. D., MSc PhD Lectr.  
Stephenson, I. M., MSc(Eng) PhD Lectr.  
1 Res. Asst.

### Engineering, Mechanical

Bishop, R. E. D., MA *Camb.*, MS PhD *Stan.*,  
DSc(Eng) Kennedy Prof.  
Billett, H., BSc(Eng) *Birm.* Sr. Lectr.  
Jackson, K. L., MSc(Eng) Lectr.  
Jones, W. J. D., BSc(Eng) Lectr.  
Lambert, T. H., BSc(Eng) PhD Lectr.  
Makomaski, A. H., BSc(Eng) PhD Lectr.  
Massey, B. S., BSc(Eng) PhD Lectr.  
Montgomery, S. R., MA *Camb.*, SM  
ScD *M.I.T.* Lectr.  
Walker, T. H., MEng *Sheff.* Lectr.  
Weiss, H. K., ME *N.S.W.*, DiplIng *Vienna*  
Hon. Res. Assoc.  
1 Asst.

### English

Smith, A. H., OBE, PhD *Leeds*, DLit,  
FSA Quain Prof., Jt. Hd. of Dept.  
Sutherland, J. R., MA LLD *Aberd.*,  
BLitt *Oxon.*, FBA  
Lord Northcliffe Prof., Jt. Hd. of Dept.  
Quirk, R., MA PhD (Engl. Lang.) Prof.  
Brown, A., MA Reader  
Haddakin, Mrs. Lilian F., MA PhD  
Asst. Tutor, Lectr.  
Mitchell, Prof. A. G., MA *Syd.*, PhD  
Hon. Res. Assoc.  
Thomas, D. B., BA *Camb.* Hon. Res. Assoc.  
Wright, Prof. B. A., MA *Oxon.* Hon. Res. Assoc.  
Hulme, Hilda M., MA PhD Sr. Lectr.  
Dodgson, J. M., MA Lectr.

Emslie, McD., MA PhD *Camb.* Lectr.  
Goolden, P., MA BLitt *Oxon.* Lectr.  
Greenslade, B. D., MA Lectr.  
Needham, G. I., MA *Oxon.* Lectr.  
Nowottny, Mrs. Winifred M. T., MA Lectr.  
Palmer, K. J., MA Lectr.  
Peake, C. H., MA Lectr.  
Turner, D. L., MA *Camb.* Lectr.  
Warburg, J. F., AM *Wis.*, MA Lectr.  
Chalker, J., MA Asst. Lectr.  
Petti, A. G. R., MA Quain Student  
1 Res. Asst., 1 Asst., 2 Hon. Res. Assts.

### Eugenics, Biometry and Genetics

Penrose, L. S., MA MD *Camb.*, Hon.  
DSc *McG.*, FRS  
(Eugenics) Galton Prof., Hd. of Dept.  
Grüneberg, H., PhD *Berl.*, MD *Bonn*,  
DSc, FRS (Genetics) Prof.  
Smith, C. A. B., MA PhD *Camb.*  
(Genetical Stats.) Reader  
Kalmus, H., MD DSc *Prague* (Biol.) Reader  
Ellis, J. R., PhD *Manc.* Lectr.  
Holt, Mrs. Sarah B., BSc *Brist.*, PhD  
(Eugenics) Lectr.  
Karn, Miss M. Noel, MA *Camb.* (Eugenics) Lectr.  
Bell, Julia, MA *Dub.*, FRCP  
(Eugenics) Hon. Res. Assoc.  
10 Hon. Res. Assts.

### French, see also Hist.

Woledge, B., MA *Leeds*, DU *Paris* Fielden Prof.  
Tancock, L. W., PhD Reader  
Underwood, V. P., DèS *L. Lille*, PhD Reader  
Walker, D. P., DPhil *Oxon.* Reader  
Smith, C., MA *Manc.*, PhD Sr. Lectr.  
Starke, Dora, MA Asst. Tutor, Lectr.  
Hall, G., PhD Lectr.  
King, C. D., PhD Lectr.  
Lequet, A. E. A., LèsL Dipl'd'ÉtSup  
*Paris*, BA Lectr.  
Beck, Christiane, LèsL Dipl'd'ÉtSup *Stras.* Asst.  
Bertaud, J. E., LèsL Dipl'd'ÉtSup *Paris* Asst.  
Grunwald, Mrs. Eva, PhD Asst.  
Sandoz, M. A., LèsL *Paris* Asst.  
1 Res. Asst.

### Genetics, see Eugenics

### Geography

Darby, H. C., OBE, MA PhD LittD *Camb.* Prof.  
Mead, W. R., MSc(Econ) PhD Reader  
Fleure, Prof. H. J., MA *Manc.*, DSc *Wales*,  
LLD *Edin.*, ScD *Bowdoin*, FRS Hon. Lectr.  
Brown, E. H., MSc *Wales*, PhD  
Asst. Tutor, Lectr.  
Barbour, K. M., BLitt MA *Oxon.* Lectr.  
Bird, E. C. F., PhD *A.N.U.*, MSc Lectr.  
Chandler, T. J., MSc Lectr.  
Coppock, J. T., MA *Camb.*, PhD Lectr.  
Johnson, J. H., MA *Wis.* Lectr.  
Prince, H. C., MA Lectr.  
Sinnhuber, K. A., DPhil *Innsbruck* Lectr.

Thomas, D., MA *Wales* Lectr.  
 French, R. A., MA (Eastern Europe) Lectr.  
 Crossley, J. C., MA *Sheff.*  
 (Latin-Amer. Geog.) Leverhulme Lectr.  
 1 Res. Asst.

**Geology**

Hollingworth, S. E., MA *Camb.*, DSc  
 Yates-Goldsmid Prof.  
 Barnard, T., DIC, PhD  
 (Micropalæontol.) Reader  
 Wells, M. K., MSc PhD Reader  
 Lloyd, A. J., PhD Lectr.  
 Robinson, J. E., PhD *Durh.* Lectr.  
 Rutland, R. W. R., PhD Lectr.  
 Smith, A. J., PhD *Wales* Lectr.  
 Stumpf, E. F., DrRerNat *Heidel.* Lectr.  
 Skevington, D., BSc *Brist.* Asst. Lectr.  
 Hudson, R. G. S., DSc Hon. Res. Assoc.  
 1 Hon. Res. Asst.

**German**

Forster, L. W., MA *Camb.*, DrPhil *Basle* Prof.  
 Wilkinson, Elizabeth M., PhD Prof.  
 Butler, G. P. G., MA *N.Z.* Lectr.  
 Mowatt, D. G., BA Lectr.  
 Rowley, B. A., MA PhD *Camb.*  
 Asst. Tutor, Lectr.  
 Sacker, H. D., MA *Camb.* Lectr.  
 Wells, G. A., MA PhD Lectr.

**Greek, see Classics****Hebrew**

Stein, S., PhD *Heidel.* Reader  
 Weiss, J. G., MA *Jerusalem* Lectr.  
 Wiesenber, E., PhD Lectr.

**History**

Humphreys, R. A., OBE, MA PhD *Camb.*  
 (Latin-Amer. H.) Prof., Hd. of Dept.  
 Thomson, M. A., MA DPhil *Oxon.*  
 (Engl. H.) Astor Prof.  
 Allen, H. C., MC, MA *Oxon.*  
 (Amer. H.) Commonwealth Fund Prof.  
 Cobban, A. B. C., MA PhD *Camb.*  
 (French H.) Prof.  
 Momigliano, A. D., MA *Oxon.*,  
 DLitt *Turin & Brist.*, FBA (Anc. H.) Prof.  
 Hurstfield, J., BA (Mod. H.) Prof.  
 Burns, J. H., MA *Edin. & Oxon.*,  
 PhD *Aberd.* (H. of Pol. Thought) Reader  
 Kossmann, E. H., LittD *Ley.*  
 (Dutch H. & Instns.) Reader  
 Reddaway, T. F., MA *Camb.*, FSA  
 (London H.) Reader  
 Drower, Margaret S., MBE, BA  
 (Anc. H.) Sr. Lectr.  
 Taylor, A. J., MA *Manc.*  
 (Engl. H.) Asst. Tutor, Lectr.  
 Barrow, G. W. S., MA *St. And.*,  
 BLitt *Oxon.* (Engl. H.) Lectr.  
 Christie, I. R., MA *Oxon.* (Engl. H.) Lectr.

Holdsworth, C. J., MA PhD *Camb.*

(Engl. H.) Lectr.  
 Morris, J. R., BA *Oxon.*, PhD (Anc. H.) Lectr.  
 Pole, J. R., BA *Oxon.*, PhD *Prin.*  
 (on leave) (Amer. H.) Lectr.  
 Thompson, F. M. L., MA DPhil *Oxon.*  
 (Engl. H.) Lectr.  
 Neale, Prof. Sir John E., MA *Liv. & Manc.*,  
 DLitt *Wales & Birm.*, LittD *Liv.*,  
 LHD *Amherst, FBA*  
 (Engl. H.) Hon. Res. Assoc.  
 Van Alstyne, Prof. R. W., PhD *Stan.*  
 Hon. Res. Assoc.  
 1 Res. Asst., 1 Hon. Res. Asst.

**Icelandic, see Scand. Studies****Italian**

Weiss, R., BA *Oxon.* Prof.  
 Aquilecchia, G., DottLett *Rome* Reader  
 Fahy, C., MA *Camb.*, PhD *Manc.* Lectr.

**Latin, see Classics****Laws**

Keeton, G. W., MA LLD *Camb.*  
 (Engl. L.) Prof., Hd. of Dept.  
 Lloyd, D., MA *Camb.*, LLD  
 (Jurisp.) Quain Prof.  
 Powell, R., DCL *Oxon.* (Roman L.) Prof.  
 Ryder, E. C., MA LLB *Camb.* (Engl. L.) Prof.  
 Ivamy, E. R. H., LLB PhD (Law) Prof.  
 Schwarzenberger, G., DrJur *Tübingen*,  
 PhD (Internat. L.) Reader  
 Millner, M. A., BA LLB *Rand*, BCL *Oxon.*  
 (Engl. L.) Reader  
 Webber, G. J., LLB *Manc.* (Engl. L.) Reader  
 Scamell, E. H., LLM (Engl. L.) Reader  
 Forrest, R. M., LLB (Internat. L.) Hon. Lectr.  
 Goodman, A., MA *Camb.*, LLM  
 (Engl. L.) Hon. Lectr.  
 Jacob, I. H., LLB (Engl. L.) Hon. Lectr.  
 Cheng, B., LicenDr *Geneva*, PhD  
 (Internat. L.) Lectr.  
 Green, L. C., LLB (Internat. L.) Lectr.  
 Hargrove, B., LLM (Engl. L.) Lectr.  
 Holland, D. C., MA *Camb.* (Engl. L.) Lectr.  
 Korah, Mrs. Valentine, LLM (Engl. L.) Lectr.  
 Parkinson, F., BA (Internat. L.) Lectr.  
 Prevezer, S., MA *Camb.*, LLM *Harv.*  
 (Engl. L.) Lectr.  
 Waters, D. W. M., MA BCL *Oxon.*  
 (Engl. L.) Lectr.

**Librarianship and Archives**

Irwin, R., MA *Oxon.*, FLA Prof., Dir. of Sch.  
 Piggott, Mary, BA, FLA Sr. Lectr.  
 Staveley, R., BA, FLA Sr. Lectr.

Watson, A. G., MA *Oxon.*, FLA Lectr.  
 Denham, E. W., MA *Oxon.* (Palaeog.) Lectr.  
 Ede, J. R., MA *Camb.* (Archive Admin.) Lectr.  
 Foskett, D. J., MA, FLA (Sp. Libraries) Lectr.  
 Nixon, H. M., BA *Oxon.*, FSA (Bibliog.) Lectr.  
 Pafford, J. H. P., MA, FSA, FLA  
 (Univ. Libraries) Lectr.  
 Timings, E. K., MA *Camb.*, FSA  
 (Admin. Hist.) Lectr.  
 Vollans, R. F., FLA (Public Libraries) Lectr.  
 i Demr.

### Mathematics

Dean, W. R., MA *Camb.* Goldsmid Prof.  
 Rogers, C. A., DSc, FRS Astor Prof.  
 Du Val, P., PhD *Camb.*, BSc (Geom.) Reader  
 Bosanquet, L. S., MA DSc DPhil *Oxon.*  
 (Pure M.) Reader  
 Estermann, T., DNatSc *Hamburg*, DSc Reader  
 Roth, K. F., BA *Camb.*, MSc PhD, FRS Reader  
 Stevenson, A. C., MSc (Appl. M.) Reader  
 Kestelman, H., MSc Asst. Tutor, Reader  
 Archbold, J. W., MA *Camb.* Sr. Lectr.  
 Harris, F. C., MSc PhD Sr. Lectr.  
 Few, L., PhD Lectr.  
 Gilson, J. G., MSc PhD Lectr.  
 Gladwell, G. M. L., PhD (on leave) Lectr.  
 Hocking, L. M., MA *Camb.*, MSc PhD Lectr.  
 Michael, D. H., BSc *Wales*, PhD *Camb.* Lectr.  
 Murray, J. D., PhD *St. And.* Lectr.  
 Power, E. A., MSc PhD Lectr.  
 Rigby, Constance M., MA *Oxon.*, PhD Lectr.  
 Watson, G. L., MA *Camb.*, PhD Lectr.  
 Wigglesworth, L. A., MSc Lectr.  
 Pearson, Prof. E. S., CBE, MA *Camb.*,  
 DSc Hon. Res. Assoc.  
 i Hon. Res. Asst.

**Mechanical Engineering**, see Engin.,  
 Mechanical

**Municipal Engineering**, see Engin., Civil

**Norwegian**, see Scand. Studies

### Pharmacology

Winton, F. R., MA MD *Camb.*, DSc Prof.  
 Schild, H. O., MD *Munich*, PhD *Edin.*,  
 DSc Reader  
 Mongar, J. L., PhD  
 (Chem. Pharmacol.) Reader  
 Laurence, D. R., MD, MRCP  
 (Pharmacol. & Therapeutics) Reader  
 Dicker, S. E., MD *Brussels*, PhD  
 DSc *Brist.* Lectr.  
 Steinberg, Hannah, PhD Lectr.  
 Bergel, Prof. F., DPhilNat *Freib.*, PhD  
 DSc, FRIC, FRS  
 (Pharmacol. Chem.) Hon. Lectr.  
 Danielli, Prof. J. F., PhD *Camb. & Lond.*,  
 DSc, FRS (Cell P.) Hon. Lectr.  
 Feldberg, W. S., MA *Camb.*, MD *Berl.*,  
 FRS Hon. Lectr.

Gaddum, J. H., MA ScD *Camb.*, FRS  
 Hon. Lectr.  
 Work, T. S., PhD DSc *Edin.*  
 (Chemotherapy) Hon. Lectr.  
 Edman, K. A. P., MD *Uppsala* Hon. Res. Assoc.  
 2 Hon. Res. Assts.

**Philology**, see Classics

### Philosophy

Hampshire, S. N., MA *Oxon.*, FBA  
 (P. of Mind & Logic) Grote Prof.  
 Wollheim, R. A., MA *Oxon.* Reader  
 Basson, A. H., BA Lectr.  
 Downing, P. B., MA *Camb.*, PhD Lectr.  
 Watling, J. L., PhD Lectr.  
 Williams, B. A. O., MA *Oxon.* Lectr.

### Phonetics

Fry, D. B., PhD (Exper. P.) Prof.  
 Coustenoble, Hélène, DLit Reader  
 Arnold, G. F., BA Lectr.  
 Chapallaz, Marguerite, MA Lectr.  
 Denes, P., MSc *Manc.* Lectr.  
 Fourcin, A. J., BSc(Eng) PhD Lectr.  
 Gimson, A. C., BA Lectr.  
 O'Connor, J. D., BA Lectr.  
 Pring, J. T., MA *Oxon.* Lectr.  
 Tooley, Olive M., BA Lectr.  
 Goldman-Eisler, Mrs. Frieda, DrPhil *Vienna*  
 Hon. Res. Assoc.

### Physics

Massey, Sir Harrie, MSc *Melb.*, DSc *Belf.*,  
 PhD *Camb.*, FRS  
 Quain Prof., Dir. of Labs.  
 Burhop, E. H. S., BA MSc *Melb.*,  
 PhD *Camb.* Prof.  
 Hamilton, J., MA *Camb.*, MSc *Belf.*,  
 PhD *Manc.* Prof.  
 Gibbs, R. E., DSc, FIP  
 Reader, Dep. Dir. of Undergrad. Labs.  
 Boyd, R. L. F., BSc(Eng) PhD Reader  
 Brown, G. B., MSc *Manc.*, PhD Reader  
 Dodd, C., PhD Reader  
 Hasted, J. B., MA DPhil *Oxon.* Reader  
 Seaton, M. J., BSc PhD Reader  
 Brown, R. C., PhD Sr. Lectr.  
 Aitken, D. K., PhD Lectr.  
 Davis, D. G., PhD Lectr.  
 Fox, J. W., PhD Lectr.  
 Griffith, T. C., PhD *Wales* Lectr.  
 Groves, G. V., MA *Camb.*, PhD Lectr.  
 Heddle, D. W. O., PhD *R'dg.* Lectr.  
 Henderson, C., PhD Lectr.  
 Heyland, G. R., PhD Lectr.  
 Heymann, F. F., BSc(Eng) *Cape T.*, PhD Lectr.  
 Jennings, R. E., PhD Lectr.  
 Lasich, W. B., MSc PhD *Melb.* Lectr.  
 Percival, I. C., PhD Lectr.  
 Roberts, P. W., PhD  
 Lectr., Adviser on Radiation Hazards  
 Willmore, A. P., PhD Lectr.  
 Wood, D. O., MSc, FIP Lectr.

Zienau, S., PhD *Liv.* Lectr.  
 Buckingham, R. A., PhD *Camb.* Hon. Res. Assoc.  
 Edmonds, A. R., PhD *Birm.* Hon. Res. Assoc.  
 Robins, M. O., MA *Oxon.*, FIP Hon. Res. Assoc.  
 1 Asst., 19 Hon. Res. Assts.

**Physiology**

Huxley, A. F., MA *Camb.*, FRS Jodrell Prof.  
 Gray, J. A. B., MA MB BChir *Camb.* Prof.  
 Eggleton, M. Grace, DSc Reader  
 Harkness, R. D., BSc MB BS Reader  
 Wilkie, D. R., MD *Yale*, MB BS, MRCP (Exper. P.) Reader  
 Diamond, J., PhD MB BS (on leave) Lectr.  
 Harkness, Mrs. Margaret L. R., BSc Lectr.  
 Hubbard, S. J., PhD Lectr.  
 Hutter, O. F., PhD Lectr.  
 Lippold, O. C. J., MB BS Lectr.  
 Pascoc, J. E., BSc Lectr.  
 Schachter, M., MSc MD CM *McG.* Lectr.  
 Lewis, H. E., BSc MB ChB *Cape T.* Hon. Lectr.

Grieve, D. W., MSc Asst. Lectr.  
 Diete-Spiff, K., BSc Sharpey Scholar  
 Bayliss, L. E., BA PhD *Camb.* Hon. Res. Assoc.  
 Davson, H., DSc Hon. Res. Assoc.  
 Dawson, G. D., MSc MB ChB *Manc.* Hon. Res. Assoc.  
 Hill, Prof. A. V., CH, OBE, ScD *Camb.*, I.L.D *Belf. & Edin.*, DSc *Oxon.*, *Manc.*, *Liège, Johns H. & Col.*, MD *Louvain*, FRS Hon. Res. Assoc.  
 Kleeman, C. R., MD *Calif.* Hon. Res. Assoc.  
 1 Asst., 1 Res. Asst., 5 Hon. Res. Assts.

**Political Economy**

Allen, G. C., CBE, MCom PhD *Birm.* Prof.  
 Bowley, Marian E. A., BSc(Econ) PhD Reader  
 Corlett, W. J., MA *Camb.* Reader  
 Tout, H., CMG, MA *Oxon.* Reader  
 Stomer, A. W., MA *Oxon.*, DPhil *Heidel.* Tutor, Sr. Lectr.  
 Sturmeay, S. G., MEc *Adel.*, PhD *Manc.* Asst. Tutor, Lectr.  
 Cramp, A. B., BA *Durh.*, PhD Lectr.  
 Donnithorne, Audrey G., MA *Oxon.* Lectr.  
 Spraos, J., MA *Edin.* Lectr.  
 Mazumdar, D., BA *Calc. & Camb.*, PhD *Camb.* Asst. Lectr.  
 2 Res. Assts.

**Psychology**

Drew, G. C., MA *Brist.* Prof.  
 Whitfield, J. W., MA *Camb.* Reader  
 Keir, Gertrude H., MA *St.And.* Sr. Lectr.  
 Audley, R. J., PhD Lectr.  
 Banks, E. K. Charlotte, PhD Lectr.  
 de Monchaux, Cecily, BA *Syd.*, PhD *Lond.* Lectr.  
 Dixon, N. F., MBE, PhD *R'dg.* Lectr.  
 Foulds, G. A., MA *Liv.*, PhD Lectr.  
 Green, R. T., PhD Lectr.  
 Jonckheere, A. R., PhD Lectr.

Kelvin, R. P., MA *Oxon.*, PhD Asst. Tutor, Lectr.  
 Marshak, Mildred, BA *San Francisco*, PhD Lectr.  
 Pond, D. A., MD *Camb. & Duke*, DPM, FRCP Lectr.  
 Rawlings, Grace, BA Lectr.  
 Summerfield, A., BSc *Manc. & Lond.* Lectr.  
 Soddy, K., MD, DPM Hon. Lectr.  
 Buzzard, R. B., BM BCh *Oxon.* Hon. Res. Assoc.  
 Downer, J. L. de C., MSc *McG.*, PhD *Johns H.* Hon. Res. Assoc.  
 Marriott, R., MSc *Manc.* Hon. Res. Assoc.  
 1 Demr., 1 Asst., 11 Hon. Res. Assts.

**Scandinavian Studies**

Smith, Prof. A. H., OBE, PhD *Leeds*, DLit, FSA (see also Engl.) Dir.  
 Knudsen, Prof. T. Visiting Prof.  
 Foote, P. G., MA (Old Scand.) Reader  
 Glyn Jones, W., PhD *Camb.* (Danish) Queen Alexandra Lectr.  
 Stöverud, T., CandPhilol *Oslo* (Norwegian) W. P. Ker Lectr.  
 Bergmann, S. A., FilMag *Göteborg* (Swedish) Crown Princess Louise Lectr.  
 Benedikz, E., CandPhil *Copenhagen* (Mod. Icelandic) Hon. Lectr.

**Science, History and Philosophy of**

McKie, D., DSc PhD, FRIC Prof.  
 Armitage, A., MSc PhD Reader  
 Heathcote, N. H. de V., PhD Reader  
 Gibbs, F. W., DSc PhD, FRIC (Hist. of Technol.) Hon. Lectr.  
 Underwood, E. A., MA BSc MD *Glas.* (Hist. of Med.) Hon. Lectr.  
 Smeaton, W. A., MSc PhD, FRIC Lectr.  
 Wilkie, J. S., PhD Lectr.  
 Finlay, M. S., BS *Northwestern*, MA *Tor.* Asst. Lectr.

**Statistics**

Bartlett, M. S., MA *Camb.*, DSc Prof.  
 David, Florence N., DSc (Probability & Stats.) Reader  
 Johnson, N. L., MSc PhD, FIA (on leave) Reader  
 Barton, D. E., PhD Lectr.  
 Please, N. W., BSc Lectr.  
 Saw, J. G., BSc *Birm.*, PhD Asst. Lectr.  
 1 Demr. & Res. Asst., 1 Asst.

**Surveying, see Engin., Civil****Swedish, see Scand. Studies****Town Planning**

Holford, Sir William, MA *Liv.*, DCL *Durh.*, FRIBA Prof.  
 Keeble, L. B., MC, MA *Manc.*, BSc Sr. Lectr., Dir. of Studies  
 Clarke, J. J., MA *Liv.* Sp. Lectr.

Watson, A. G., MA *Oxon.*, FLA Lectr.  
 Denham, E. W., MA *Oxon.* (Palæog.) Lectr.  
 Ede, J. R., MA *Camb.* (Archive Admin.) Lectr.  
 Foskett, D. J., MA, FLA (Sp. Libraries) Lectr.  
 Nixon, H. M., BA *Oxon.*, FSA (Bibliog.) Lectr.  
 Pafford, J. H. P., MA, FSA, FLA  
 (Univ. Libraries) Lectr.  
 Timings, E. K., MA *Camb.*, FSA  
 (Admin. Hist.) Lectr.  
 Vollans, R. F., FLA (Public Libraries) Lectr.  
 1 Demr.

### Mathematics

Dean, W. R., MA *Camb.* Goldsmid Prof.  
 Rogers, C. A., DSc, FRS Astor Prof.  
 Du Val, P., PhD *Camb.*, BSc (Geom.) Reader  
 Bosanquet, L. S., MA DSc DPhil *Oxon.*  
 (Pure M.) Reader  
 Estermann, T., DNatSc *Hamburg*, DSc Reader  
 Roth, K. F., BA *Camb.*, MSc PhD, FRS Reader  
 Stevenson, A. C., MSc (Appl. M.) Reader  
 Kestelman, H., MSc Asst. Tutor, Reader  
 Archbold, J. W., MA *Camb.* Sr. Lectr.  
 Harris, F. C., MSc PhD Sr. Lectr.  
 Few, L., PhD Lectr.  
 Gilson, J. G., MSc PhD Lectr.  
 Gladwell, G. M. L., PhD (on leave) Lectr.  
 Hocking, L. M., MA *Camb.*, MSc PhD Lectr.  
 Michael, D. H., BSc *Wales*, PhD *Camb.* Lectr.  
 Murray, J. D., PhD *St.And.* Lectr.  
 Power, E. A., MSc PhD Lectr.  
 Rigby, Constance M., MA *Oxon.*, PhD Lectr.  
 Watson, G. L., MA *Camb.*, PhD Lectr.  
 Wigglesworth, L. A., MSc Lectr.  
 Pearson, Prof. E. S., CBE, MA *Camb.*,  
 DSc Hon. Res. Assoc.  
 1 Hon. Res. Asst.

**Mechanical Engineering**, see Engin.,  
 Mechanical

**Municipal Engineering**, see Engin., Civil

**Norwegian**, see Scand. Studies

### Pharmacology

Winton, F. R., MA MD *Camb.*, DSc Prof.  
 Schild, H. O., MD *Munich*, PhD *Edin.*,  
 DSc Reader  
 Mongar, J. L., PhD  
 (Chem. Pharmacol.) Reader  
 Laurence, D. R., MD, MRCP  
 (Pharmacol. & Therapeutics) Reader  
 Dicker, S. E., MD *Brussels*, PhD  
 DSc *Brist.* Lectr.  
 Steinberg, Hannah, PhD Lectr.  
 Bergel, Prof. F., DPhilNat *Freib.*, PhD  
 DSc, FRIC, FRS  
 (Pharmacol. Chem.) Hon. Lectr.  
 Danielli, Prof. J. F., PhD *Camb. & Lond.*,  
 DSc, FRS (Cell P.) Hon. Lectr.  
 Feldberg, W. S., MA *Camb.*, MD *Berl.*,  
 FRS Hon. Lectr.

Gaddum, J. H., MA ScD *Camb.*, FRS  
 Hon. Lectr.  
 Work, T. S., PhD DSc *Edin.*  
 (Chemotherapy) Hon. Lectr.  
 Edman, K. A. P., MD *Uppsala* Hon. Res. Assoc.  
 2 Hon. Res. Assts.

**Philology**, see Classics

### Philosophy

Hampshire, S. N., MA *Oxon.*, FBA  
 (P. of Mind & Logic) Grote Prof.  
 Wollheim, R. A., MA *Oxon.* Reader  
 Basson, A. H., BA Lectr.  
 Downing, P. B., MA *Camb.*, PhD Lectr.  
 Watling, J. L., PhD Lectr.  
 Williams, B. A. O., MA *Oxon.* Lectr.

### Phonetics

Fry, D. B., PhD (Exper. P.) Prof.  
 Coustenoble, Hélène, DLit Reader  
 Arnold, G. F., BA Lectr.  
 Chapallaz, Marguerite, MA Lectr.  
 Denes, P., MSc *Manc.* Lectr.  
 Fourcin, A. J., BSc(Eng) PhD Lectr.  
 Gimson, A. C., BA Lectr.  
 O'Connor, J. D., BA Lectr.  
 Pring, J. T., MA *Oxon.* Lectr.  
 Tooley, Olive M., BA Lectr.  
 Goldman-Eisler, Mrs. Frieda, DrPhil *Vienna*  
 Hon. Res. Assoc.

### Physics

Massey, Sir Harrie, MSc *Melb.*, DSc *Belf.*,  
 PhD *Camb.*, FRS  
 Quain Prof., Dir. of Labs.  
 Burhop, E. H. S., BA MSc *Melb.*,  
 PhD *Camb.* Prof.  
 Hamilton, J., MA *Camb.*, MSc *Belf.*,  
 PhD *Manc.* Prof.  
 Gibbs, R. E., DSc, FIP  
 Reader, Dep. Dir. of Undergrad. Labs.  
 Boyd, R. L. F., BSc(Eng) PhD Reader  
 Brown, G. B., MSc *Manc.*, PhD Reader  
 Dodd, C., PhD Reader  
 Hasted, J. B., MA DPhil *Oxon.* Reader  
 Seaton, M. J., BSc PhD Sr. Lectr.  
 Brown, R. C., PhD Lectr.  
 Aitken, D. K., PhD Lectr.  
 Davis, D. G., PhD Lectr.  
 Fox, J. W., PhD Lectr.  
 Griffith, T. C., PhD *Wales* Lectr.  
 Groves, G. V., MA *Camb.*, PhD Lectr.  
 Heddle, D. W. O., PhD *R'dg.* Lectr.  
 Henderson, C., PhD Lectr.  
 Heyland, G. R., PhD Lectr.  
 Heymann, F. F., BSc(Eng) *Cape T.*, PhD Lectr.  
 Jennings, R. E., PhD Lectr.  
 Lasich, W. B., MSc PhD *Melb.* Lectr.  
 Percival, I. C., PhD Lectr.  
 Roberts, P. W., PhD  
 Lectr., Adviser on Radiation Hazards  
 Willmore, A. P., PhD Lectr.  
 Wood, D. O., MSc, FIP Lectr.

Zienau, S., PhD *Liv.* Lectr.  
 Buckingham, R. A., PhD *Camb.* Hon. Res. Assoc.  
 Edmonds, A. R., PhD *Birm.* Hon. Res. Assoc.  
 Robins, M. O., MA *Oxon.*, FIP  
 Hon. Res. Assoc.  
 1 Asst., 19 Hon. Res. Assts.

**Physiology**

Huxley, A. F., MA *Camb.*, FRS Jodrell Prof.  
 Gray, J. A. B., MA MB BChir *Camb.* Prof.  
 Eggleton, M. Grace, DSc Reader  
 Harkness, R. D., BSc MB BS Reader  
 Wilkie, D. R., MD *Yale*, MB BS,  
 MRCP (Exper. P.) Reader  
 Diamond, J., PhD MB BS (on leave) Lectr.  
 Harkness, Mrs. Margaret L. R., BSc Lectr.  
 Hubbard, S. J., PhD Lectr.  
 Hutter, O. F., PhD Lectr.  
 Lippold, O. C. J., MB BS Lectr.  
 Pascoe, J. E., BSc Lectr.  
 Schachter, M., MSc MD CM *McG.* Lectr.  
 Lewis, H. E., BSc MB ChB *Cape T.* Lectr.

Grieve, D. W., MSc Hon. Lectr.  
 Diete-Spiff, K., BSc Asst. Lectr.  
 Bayliss, L. E., BA PhD *Camb.* Sharpey Scholar  
 Davson, H., DSc Hon. Res. Assoc.  
 Dawson, G. D., MSc MB ChB *Manc.* Hon. Res. Assoc.  
 Hill, Prof. A. V., CH, OBE, ScD *Camb.*,  
 LLD *Belf. & Edin.*, DSc *Oxon.*, *Manc.*,  
*Liège, Johns H. & Col.*, MD *Louvain*,  
 FRS Hon. Res. Assoc.  
 Kleeman, C. R., MD *Calif.* Hon. Res. Assoc.  
 1 Asst., 1 Res. Asst., 5 Hon. Res. Assts.

**Political Economy**

Allen, G. C., CBE, MCom PhD *Birm.* Prof.  
 Bowley, Marian E. A., BSc(Econ) PhD Reader  
 Corlett, W. J., MA *Camb.* Reader  
 Tout, H., CMG, MA *Oxon.* Reader  
 Stonier, A. W., MA *Oxon.*, DPhil *Heidel.*  
 Tutor, Sr. Lectr.  
 Sturmeay, S. G., MEc *Adel.*, PhD *Manc.*  
 Asst. Tutor, Lectr.  
 Cramp, A. B., BA *Durh.*, PhD Lectr.  
 Donnithorne, Audrey G., MA *Oxon.* Lectr.  
 Spraos, J., MA *Edin.* Lectr.  
 Mazumdar, D., BA *Calc. & Camb.*,  
 PhD *Camb.* Asst. Lectr.  
 2 Res. Assts.

**Psychology**

Drew, G. C., MA *Brist.* Prof.  
 Whitfield, J. W., MA *Camb.* Reader  
 Keir, Gertrude H., MA *St.And.* Sr. Lectr.  
 Audley, R. J., PhD Lectr.  
 Banks, E. K. Charlotte, PhD Lectr.  
 de Monchaux, Cecily, BA *Syd.*,  
 PhD *Lond.* Lectr.  
 Dixon, N. F., MBE, PhD *R'dg.* Lectr.  
 Foulds, G. A., MA *Liv.*, PhD Lectr.  
 Green, R. T., PhD Lectr.  
 Jonckheere, A. R., PhD Lectr.

Kelvin, R. P., MA *Oxon.*, PhD  
 Asst. Tutor, Lectr.  
 Marshak, Mildred, BA *San Francisco*,  
 PhD Lectr.  
 Pond, D. A., MD *Camb. & Duke*, DPM,  
 FRCP Lectr.  
 Rawlings, Grace, BA Lectr.  
 Summerfield, A., BSc *Manc. & Lond.* Lectr.  
 Soddy, K., MD, DPM Hon. Lectr.  
 Buzzard, R. B., BM BCh *Oxon.*  
 Hon. Res. Assoc.  
 Downer, J. L. de C., MSc *McG.*,  
 PhD *Johns H.* Hon. Res. Assoc.  
 Marriott, R., MSc *Manc.* Hon. Res. Assoc.  
 1 Demr., 1 Asst., 11 Hon. Res. Assts.

**Scandinavian Studies**

Smith, Prof. A. H., OBE, PhD *Leeds*,  
 DLit, FSA (see also Engl.) Dir.  
 Knudsen, Prof. T. Visiting Prof.  
 Foote, P. G., MA (Old Scand.) Reader  
 Glyn Jones, W., PhD *Camb.*  
 (Danish) Queen Alexandra Lectr.  
 Stöverud, T., CandPhilol *Oslo*  
 (Norwegian) W. P. Ker Lectr.  
 Bergmann, S. A., FilMag *Göteborg*  
 (Swedish) Crown Princess Louise Lectr.  
 Benedikz, E., CandPhil *Copenhagen*  
 (Mod. Icelandic) Hon. Lectr.

**Science, History and Philosophy of**

McKie, D., DSc PhD, FRIC Prof.  
 Armitage, A., MSc PhD Reader  
 Heathcote, N. H. de V., PhD Reader  
 Gibbs, F. W., DSc PhD, FRIC  
 (Hist. of Technol.) Hon. Lectr.  
 Underwood, E. A., MA BSc MD *Glas.*  
 (Hist. of Med.) Hon. Lectr.  
 Smeaton, W. A., MSc PhD, FRIC Lectr.  
 Wilkie, J. S., PhD Lectr.  
 Finlay, M. S., BS *Northwestern*, MA *Tor.*  
 Asst. Lectr.

**Statistics**

Bartlett, M. S., MA *Camb.*, DSc Prof.  
 David, Florence N., DSc  
 (Probability & Stats.) Reader  
 Johnson, N. L., MSc PhD, FIA  
 (on leave) Reader  
 Barton, D. E., PhD Lectr.  
 Please, N. W., BSc Lectr.  
 Saw, J. G., BSc *Birm.*, PhD Asst. Lectr.  
 1 Demr. & Res. Asst., 1 Asst.

**Surveying, see Engin., Civil****Swedish, see Scand. Studies****Town Planning**

Holford, Sir William, MA *Liv.*, DCL *Durh.*,  
 FRIBA Prof.  
 Keeble, L. B., MC, MA *Manc.*, BSc  
 Sr. Lectr., Dir. of Studies  
 Clarke, J. J., MA *Liv.* Sp. Lectr.

Youngman, G. P., MA *Camb.*

(Landscape Design) Lectr.

Baker, L. F., MA Lectr. & Drawing Office Instr.

Glass, Mrs. Ruth, MA *Col.* Hon. Res. Assoc.

Schlaffenberg, B., DrArch *Rome* Visiting Lectr.  
2 Hon. Res. Assts.

### Zoology and Comparative Anatomy

Medawar, P. B., CBE, MA DSc *Oxon.*,

DULiège, FRS Jodrell Prof.

Wells, G. P., MA ScD *Camb.*, FRS Prof.

Freeman, R. B., MBE, MA *Oxon.*

(Taxonomy) Reader

Blest, A. D., DPhil *Oxon.*, BSc Lectr.

Boycott, B. B., BSc Lectr.

Brent, L., PhD Lectr.

O'Connor, F. B., PhD *Wales* Lectr.

Robinson, Pamela Lamplugh, PhD Lectr.

Smith, J. M., BA *Camb.*, BSc

Lectr.

Stevenson, J. P., PhD

Lectr.

Whitear, Mary, PhD

Lectr.

Kermack, K. A., PhD

(Biol. Stats.) Lectr.

Vickerman, K., BSc

(Protozool.) Wellcome Res. Fellow &  
Hon Lectr.

Comfort, A., MA MB BChir *Camb.*,

PhD

Hon. Res. Assoc.

Corliss, Prof. J. O., PhD N.Y. Hon. Res. Assoc.

Flynn, Prof. T. T., MBE, DSc *Syd.*

Hon. Res. Assoc.

Fraser, Elizabeth A., DSc

Hon. Res. Assoc.

Newth, Prof. D. R., PhD Hon. Res. Assoc.

Watson, Prof. D. M. S., DSc *Cape T., Manc.*

& *Rand*, LLD *Aberd.*, FRS

Hon. Res. Assoc.

3 Res. Assts., 6 Hon. Res. Assts.

## ADMINISTRATIVE AND OTHER STAFF

ADMINISTRATIVE OFFICERS. Finance Sec. and Accountant: H. W. Claxton, OBE, FCA. Bursar: E. H. Swain. Registrar: A. J. L. Cahill, BSc(Econ). Establishment Officer: J. A. Hussey, OBE. Asst. Sec.: Winifred Radley. Exec. Asst.: S. Angus, OBE, MA. Supt. of Office Services: R. L. Gregory.

TUTORS. Sr. Tutor and Tutor to Arts Students: R. D. McLellan, PhD. Tutor to Laws Students: D. C. Holland, MA *Camb.* Tutor to Science Students: R. E. Gibbs, DSc, FIP. Tutor to Engin. Students: H. Marriott, BEng *Sheff.*, BSc(Econ), MIEE. Tutor to Medical Students: O. C. J. Lippold, MB BS. Tutor to Women Students: Mrs. Olive D. Maguinness, MSc

DSc. Adviser to Postgrad. Students: D. J. B. White, PhD. Supervisor of Dental Students: R. D. Harkness, BSc, MB BS.

LIBRARY. Dep. Librarian: D. G. F. Walker, MA LLB *Glas.*

WARDENS OF HALLS OF RESIDENCE. R. B. Freeman, MBE, MA *Oxon.* (Bentham Hall); Kathleen Law, MSc *Melb.*, PhD (Campbell Hall).

STUDENT HEALTH CENTRE. Dir. & Asst. Physician: C. J. Lucas, MB BS DPM; Physician: A. Linken, MB BCh *Rand.*

APPOINTMENTS. Careers Adviser: D. O. Wood, MSc, FIP.

## GENERAL INFORMATION

University Coll., London, was founded in the year 1826 and opened on Oct. 1, 1828, under the title of the University of London. It was incorporated as University Coll., London, by royal charter dated Nov. 28, 1836. This charter was annulled by act of parliament, passed June 24, 1869, whereby the coll. was reincorporated with addtnl. powers and divested of its proprietary character. On Jan. 1, 1907, in accordance with the provisions of the University Coll. London (Transfer) Act, 1905, passed July 11, 1905, the coll. was incorporated in the Univ. of London. The facs. of arts and laws, and med., were establd. in 1832, the fac. of sci. in 1870 and the fac. of engin. in 1908; the Slade Sch. of Fine Art in 1871, the Bartlett Sch. of Archit. in 1913, and the Sch. of Librarianship in 1919. Full admission of women to the coll. was permitted in 1878.

INCOME. Total income (1958-59), £1,605,090 (govt. grants, 84.1 per cent; fees, 10.2 per cent.; endowments, 2.9 per cent.; misc., 2.8 per cent.).

FACULTIES AND DEANS. Arts, Prof. J. R. Sutherland (Engl.); engin., Prof. H. E. M.

Barlow (electr. engin.); laws, Prof. D. Lloyd; med. scis., Prof. J. Z. Young (anat.); sci., Prof. E. D. Hughes (chem.). The fac. of arts includes the Slade sch. of fine art, the sch. of librarianship & archives, the Bartlett sch. of archit. (incl. the div. of decoration) and the dept. of town planning.

COLLEGE PRECINCT. The college bldgs. are being devel. within a precinct bordered by Gower St., Gower Place, Gordon St. and Square, and Torrington Place. The dept. of town planning is situated outside this precinct, in Flaxman House, Flaxman Terrace, W.C.1.

LIBRARY. Some 675,000 vols. and pamphlets, covering all subjs. taught in the coll. The working collections in classical archaeol., Egyptol., London, American and Latin-American hist., and Scand. studies, and its sets of periodicals in all subjects, are particularly strong. Important MSS. collections are: papers of Jeremy Bentham (75,000 sheets); over 50,000 letters addressed to Lord Brougham; minute books, correspondence, etc., of the Soc. for the Diffusion of Useful Knowledge; papers of Sir Edwin Chadwick; and

papers of Sir W. Ramsay. Other sp. collections are Graves early sci. libr.; Barlow Dante libr.; Whitley Stokes Celtic libr.; Smith Woodward palaeontol. libr.; C. K. Ogden libr.

The libraries of the following learned socs. are housed in the coll. library: British Soc. of Franciscan Studies; Geologists' Assocn.; Folk-Lore Soc.; Hertfordshire Nat. Hist. Soc. & Field Club; Huguenot Soc.; London Mathematical Soc.; Malacological Soc.; Mocatta Libr. of Anglo-Judaica; Philological Soc.; Viking Soc. for Northern Res.

**MUSEUMS, OBSERVATORY, BOTANICAL GARDEN and FIELD STATION.** *Museums*: anat., archit., bot., Egyptol., geol. & mineral., Jewish antiquities (Gustave Tuck), vulcanological (Johnston-Lavis collection), zool. *Univ. Observatory*, Mill Hill Park, N.W.7 (tel.: Mill Hill 1618): administered by Univ. Coll. since 1951; designed to meet needs of undergrad. and postgrad. workers in astron. Applicn. for admission should be made to the dir., Prof. C. W. Allen, DSc *W. Aust. Nuffield Res. Garden*, Regent's Park, N.W.1.: administered by Univ. Coll. since 1953; for population and cytogenetic studies on plants. *Blakeney Field Stn.*: maintained by dept. of bot. since 1910 for field trg. and res. on maritime ecol.

**COMMUNICATION RESEARCH CENTRE.** Formed in 1953; concerned with usage and efficiency of signs and symbols, and at present engaged in res. on lang. of business, governmental and other orgns.; enquiries to sec., Communication Res. Centre, Univ. Coll., Gower St., W.C.1.

**ADMISSION.** See p. 965 and Appendix II. Admissions to undergrad. courses are arranged by the fac. tutors in consultation with the depts. concerned. There is no general coll. entrance exam., but sp. entrance tests are set for candidates desiring admission to certain lang. depts. A very limited number of places is available in certain facs. and depts. for students who are not registered with univ. and wish to attend individual lecture courses.

Foreign students are admitted to the coll. on the same terms as British, but their applicns. should be made through the appropriate authorities in this country or through the British Council. The Ramsay Memorial fellowships in chem. sci. founded by certain foreign govts. are tenable at Univ. Coll., Lond., among other places.

**FIRST DEGREES** (of Univ. of London). The coll. provides courses for degrees of the Univ. of London as listed below. 3 yrs.—BA hons. in classics, Engl., French, geog., German, hist., Italian, philos., psychol., etc.; BSc(Econ); LLB; BSc (spec.) in biochem., bot., chem., geog., geol., maths., phys., physiol., psychol., stats., zool., etc.; BSc(Eng) in chem., civil, electr., mech. engin.; 5 yrs.—BA hons. in archit.; 5 terms—med. (pre-clin. only).

**HIGHER DEGREES** (of Univ. of London). MA, MSc(Econ), LLM, MSc, MSc(Eng), 2 yrs. from corresp. 1st degree. Courses of instructn. pro-

vided for most master's degrees. PhD in arts, econ., laws, sci., engin., med., 2 yrs. from 1st degree (3 yrs. sci., engin.). Higher degrees are open to grads. of other univs.

**DIPLOMAS.** *Awarded by Univ. of London.* Undergrad.: fine art, 4 yrs. Postgrad.: anthropol., archæol., Egyptol., phonetics, normally 2 yrs.; archive admin., law, librarianship, psychol., stats., town planning, normally 1 yr. *Awarded by the coll.* Undergrad.: archit., 5 yrs. (recog. as exempting from R.I.B.A. final exam.). Postgrad.: chem. engin., surveying, photogrammetry, biochem. engin., micropalæontol., conservation, 1 yr.

**CERTIFICATES.** *Awarded by the coll.* Undergrad.: decoration, 3 yrs.; landscape design, 2 yrs.; town planning, phonetics, Scand. langs., normally 1 yr.

**RESEARCH.** All depts. as set out above in the teaching staff list are available for postgrad. res. work, and the respective profs. are always prepared to advise students wishing to undertake res.

**FEES** (1960-61). Entrance registration, £2: 10s.; overseas students, £3: 10s. Tuition composition fee. *Degree courses*—undergrad.: arts, £52 to £62 p.a.; archit., £67 p.a.; laws, day, £53 p.a., evg., £32 p.a.; sci., £57 to £67 p.a.; engin., £67 p.a.; med., for 2nd exam., £116 (5 terms); econ., £52 p.a. Postgrad.: full-time, MA, MSc(Econ), LLM, PhD in arts, econ. & laws, £37 p.a.; MSc and PhD in sci., £37-£67 p.a.; MSc(Eng) and PhD in engin. and med., £67 p.a. *Univ. academic or postgrad. dipls.*: anthropol., archæol., archive admin., librarianship, psychol., £52 (1st yr.), £37 (2nd yr., if necessary); stats., £62; law, £41; phonetics, £39; town planning, £26: 10s.; univ. dipl. in fine art, £57 p.a. *Coll. dipls. and certs.*: archit. dipl., £67 p.a.; decoration cert., £67 p.a.; landscape design cert., day, £25: 10s. (1 yr.), evg., £18 p.a. (2 yrs.); town planning cert., day, £41, evg., £26: 10s.; Scand. studies cert., £6; chem. engin. dipl., £67 (1st yr.), £45 (2nd yr., if necessary); photogrammetry dipl., £67; surveying dipl., £67, cert., £67; biochem. engin. dipl., £67; micropalæontol. dipl., £67; conservation dipl., £67.

**ACADEMIC YEAR.** Oct. to June, 3 terms of 10 weeks each.

**VACATION COURSE** (2 wks., in July) in Engl. phonetics for foreign students and teachers.

**ENTRANCE SCHOLARSHIPS.** Open awards for undergrads.: in arts, 7, agg. value £285 p.a.; archit., 2, agg. value £80 p.a.; fine art, 2, agg. value £80 p.a.; librarianship & archives, 2, agg. value £80 p.a.; sci., 2, agg. value £80 p.a.; laws, 1, value £40 p.a.; med. sci., 3, agg. value £124 p.a.; engin., 1, value £50 p.a.; archit. or fine art, 1, value £40 p.a.; any fac., 2, agg. value £80 p.a. Most of these are eligible for supplementation by the Ministry of Educn.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.



**OLD STUDENTS' ASSOCIATION**, founded in 1890.

**STUDENT HALLS OF RESIDENCE.** Bentham Hall, 31-44 Cartwright Gdns., W.C.1 (tel.: Euston 1836), for men; fees, £122 to £135 per session. Campbell Hall, 5-10 Taviton St., W.C.1 (tel.: Euston 5891), for women; fees, £122 to £135 per session.

**STUDENT HEALTH ASSOCIATION.** Establd. in 1945 for students and other members of the coll. Its work is governed by cttee. representative of union and coll. cttee. Every student of the coll. is a member; membership is optional for other members of the coll. Health centre in coll. for treatment and general health exams.; general practitioner service under N.H.S. Act available to

all members of coll. who register with assocn.'s physician; dental treatment; mass radiography survey.

**STUDENTS' UNION.** The original union soc. (founded 1893) and the women's union soc. (founded 1897) were federated in 1954. The athletic ground is at Shenley, Herts.

**PUBLICATIONS.** *Calendar* (Oct.), 9s.; *Annual Report*; *University Coll., London, 1826-1926*, by Prof. H. Hale Bellot (Univ. of London Press; enquiries to University Coll.), 1929, 25s.; *Inaugural Lectures* (list from University Coll.); *Students' Handbook*; students' magazine, *New Phineas*; students' newspaper, *PI*; various fac. and depl. *Prospectuses*.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** T. W. Batt, residuary legacy, approx. £20,000 for endowment of scholp. in sci.; U.S. Air Force, \$54,302 for res. in phonetics, chem. engin., chem. and anat.; Wellcome Trust, £14,900 for res. on nerve fibres and synapses.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: 2nd stage of med. sci. depts., animal house.

**RETIREMENTS.** Prof. H. J. Collins (civil & munic. engin.); A. Gwynne-Jones (fine arts); H. Warren Wilson (archit.-decoration).

**RESIGNATIONS.** Prof. A. J. Ayer (philos.), apptd. Wykeham prof. of logic, Oxford; R. Capildeo (maths.), apptd. hd., new tech. coll., W. Indies; Prof. E. H. J. Gombrich (fine arts), apptd. dir., Warburg Inst.; Mary B. Hesse (hist. & philos. of sci.), apptd. asst. lectr., Camb.; Rita J. Maurice (pol. econ.), to appt. with Min. of Health; J. H. Ottaway (biochem.), apptd. to Edin.; D. J. Payne (laws), apptd. reader, Oxford; L. S. Pressnell (pol. econ.), apptd. reader, L.S.E.; K. R. Rees (biochem.), apptd. sr. lectr., Univ. Coll. Hosp., Lond.; K. C. Richardson (anat. & embryol.), to appt. at Wash. (Mo.); E. J. Smith (phys.), to appt. at Levington Res. Stn.; P. A. Sweet (astron.), apptd. regius prof. of astron., Glas.

**DEATHS.** Prof. R. C. FitzGerald (Engl. law, since 1946); Edith Goodyear (geol., 1904-45, tutor to women students, 1926-45); J. W. Jeaffreson (French, 1919-49, 1951-53); R. J. Wilkins (civil engin. since 1957).

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	2212	413
Women . . .	714	220
Total . . .	2926	633

Distribution by Faculties. *Arts*, 1572; *econ.*, 153; *engin.*, 256; *laws*, 395; *med. sci.*, 167; *sci.*, 1016. Total: 3559.

*Included in the figures above are* :—

Postgraduate students, 811.

New admissions (full-time). Undergrad., 798; postgrad., 199.

Students from other countries, 605. (Countries from which largest numbers came: India, 58; U.S.A., 55; Nigeria, 51).

**DEGREES AWARDED** (by Univ. of London) (1958-59). *Archit.*: BA, 4; (hons.), 2; MA, 1; PhD, 2. *Arts*: BA, 1; (hons.), 163; MA, 13; PhD, 20 (incl. 1 student jtly. registered at another instn.); DLit, 1. *Econ.*: BSc(Econ), 7 (incl. 2 students jtly. registered at another instn.); (hons.), 32 (incl. 5 students jtly. registered at another instn.); MSc(Econ), 7. *Engin.*: BSc (Eng), 17; (hons.), 18; BSc(ChemEngin), 5; (hons.), 11; PhD, 14. *Law*: LLB, 22; (hons.), 44; LLM, 6; PhD, 1. *Med.*: PhD, 2. *Sci.*: BSc, 11; (hons.), 150; MSc, 43; PhD, 69 (incl. 2 students jtly. registered at another instn.); DSc, 1. *Total number of first degrees awarded*, 487.

**DIPLOMAS AWARDED** (1958-59). *By Univ. of London*: anthropol., 1; archive admin., 6; fine art, 27; law, 4; librarianship, 11; psychol., 3; town planning, 25; town planning & civic archit., 6; town planning & civic engin., 1. *By Coll.*: archit., 15; chem. engin., 8; photogrammetry, 5; surveying, 4.

**CERTIFICATES AWARDED** (1958-59). *By Univ. of London*: proficiency in Engl. for foreign students, 1. *By Coll.*: archit., 17; decoration, 4; landscape design, 5; phonetics, 38; preservation & restoration of historical bldgs., 2; town planning, 24.

[Information compiled as at 29/7/60]

**WESTFIELD COLLEGE\***

Founded 1882 ; incorporated by Royal Charter 1933

*Postal Address* : Kidderpore Avenue, Hampstead, London, N.W.3, England*Telephone and Telegrams* : Hampstead 7601

CHAIRMAN OF COUNCIL—Rt. Rev. THE LORD BISHOP OF CHESTER

PRINCIPAL—KATHLEEN CHESNEY, MA DPhil DLitt Oxon.

SECRETARY TO COUNCIL—ROSALIE M. FORSTER, BA

**TEACHING STAFF**

<b>Botany</b>		Waldeck, Marie-Luise M. L., BA	Asst. Lectr.
Fogg, G. E., PhD Camb., BSc	Prof.	Braun, Margarete	Lektorin
<b>Chemistry</b>		<b>History</b>	
Klyne, W., MA Oxon., PhD Edin., DSc	Prof.	McKisack, May, MA BLitt Oxon., FSA	Prof.
<b>Classics</b>		Hill, Rosalind M. T., MA BLitt Oxon., FSA, FRHistS	Reader
Jones, D. M., MA Oxon.	Prof.	Carsten, F. L., DPhil Oxon.	Reader
Barratt, Christine, MA Oxon.	Lectr.	Rubinstein, N., PhD Florence, FRHistS	Lectr.
Glanville, Irene M., MA Oxon., PhD	Lectr.	Anderson, Mrs. Olive R., MA BLitt Oxon.	Lectr.
	Asst. Lectr.	<b>Italian</b>	
<b>English Language and Literature</b>		Waley, Mrs. Pamela, BA	Lectr.
Jenkins, H., DLitt Rand, MA	Prof.	<b>Mathematics, Pure and Applied</b>	
Davis, B. E. C., MA Oxon.	Reader	Sondheimer, E. H., MA PhD Camb.	Prof.
White, Beatrice M. I., MA DLit, FRSL, FRHistS, FSA	Reader	Stanley, Gertrude K., BSc Oxon., MSc	Reader
Dorsch, T. S., BA Adel., MA Oxon.	Lectr.	Pennington, W. B., MA PhD Camb.	Reader
Mackenzie, Eileen K. A., PhD	Lectr.	Hardiman, Nellie J., MSc PhD	Lectr.
Thomas, Elizabeth J., BA	Asst. Lectr.	Fishel, B., BSc	Lectr.
<b>French Language and Literature</b>		Bowers, J. F., MSc PhD	Asst. Lectr.
	Prof.	<b>Physics</b>	
Dickinson, Gladys, Lèsl Lyons, BA	Reader	Bellamy, E. H., MA Camb., PhD Glas.	Prof.
Chesney, Kathleen, MA DPhil DLitt Oxon.	Lectr.	<b>Spanish</b>	
Rutherford, Mrs. Marie-Rose, MA PhD	Lectr.	Varey, J. E., MA PhD Camb.	Reader
Curtis, Renee L., PhD	Lectr.	Deyermond, A. D., MA BLitt Oxon.	Lectr.
Hodson, W. L., BA Wales	Asst. Lectr.	Chapman, Janet A., MA Oxon.	Asst. Lectr.
Marzac, Nicole A. D., Lèsl DipId'EtSup Paris	Lectrice	Bleiberg, Alicia, LicenFil&Let Madrid	Lectora
<b>German</b>		<b>Zoology</b>	
Beare, Mary, MA Belf. & Camb., PhD Bonn	Reader	Webb, J. E., DSc PhD	Prof.
Wynn, Mrs. Marianne, MA Melb., PhD Camb.	Lectr.	<b>MAYNARD DIVINITY LECTURER</b>	
		1960-61—The Rev. W. J. F. Huxtable, MA	

**ADMINISTRATIVE AND OTHER STAFF**

Librarian : Dorothy M. Moore, BA Belf., Asst. Sec. : Eileen McCully, BA. Bldgs. Officer :  
 FLA. Registrar : Joan M. Sims, MA Camb. J. B. Bate. Domestic Bursar : Marion D.  
 Finance Officer : Gwen Chambers, MA Oxon. McCall.

\* For women. (Men are admitted for postgraduate work.)

## GENERAL INFORMATION

Founded in 1882 by Miss Dudin Brown for the higher educn. of women, the coll. is undenominational, but the principal must be a member of the Church of England. Governed by a council which incl. the principal and reps. of the L.C.C., the univ., the staff and old students. A sch. of the univ. in arts, offering in addn. approved courses in maths. (hons. and spec.) in the fac. of sci. Recog. as sch. of the univ. in sci. in Dec. 1959. New depts. of bot., chem., phys. & zool., headed by profs., will open in Oct. 1961. Situated nr. Hampstead Heath with residential accomm. for 280 students.

**LIBRARIES.** The coll. libraries have spacious reading rooms and contain approx. 48,000 vols. and pamphlets and a microfilm reader.

**ADMISSION.** See p. 965 and Appendix II. Students are not admitted under the age of 18 and are required to take the coll. scholp. and entrance exam., at which open scholps. and exhibitions (aggregate value, £700) are awarded annually. Men as well as women students are admitted to read for higher degrees.

**FIRST DEGREES** (of Univ. of London). The coll. provides 3-yr. courses for the following degrees of the Univ. of London: BA (hons.) in classics, Greek (with Latin), Latin (with Greek), Engl.,

hist., French, German, Spanish, maths.; BSc (spec.) and BSc (gen.) in bot., chem., maths., phys., zool.

**HIGHER DEGREES** (of Univ. of London). MA and PhD in classics, Engl., hist., French, German, Spanish, maths.; MSc and PhD in bot., chem., maths., phys., zool.

**FEES.** Tuition—Undergrad.: arts, £45 p.a.; maths. (arts or sci.), £50 p.a.; sci., £60 p.a. Postgrad.: arts, £21 p.a.; maths. (arts or sci.), £21 p.a.; sci., £30 p.a. Union sub. (compulsory) £2 : 5s. p.a. Residence, £145 per session.

**STUDY LEAVE.** Study leave (1 or 2 terms) is normally given every 7th yr. to members of staff in lectr. and higher grades.

**HEALTH SERVICE.** A student health service has been establd. under the care of the nursing sister (S.R.N.) with a sick-room and dispensary.

**ATHLETIC FACILITIES.** Near-by athletic ground with 3 tennis courts, hockey, net-ball and cricket pitches. There are also 3 hard and 2 grass tennis courts in the coll. grounds.

**PUBLICATIONS.** *Prospectus* (May), *Report* (Oct.), both issued free of charge; *Hermes* (students' mag.), 1s. 6d.; *Old Students' Directory*, 3s. 6d.

## THE YEAR 1959

**NEW BUILDINGS.** No. 314 Finchley Rd. bought to house 12 students & 1 sr. member from Oct. 1960.

**RESIGNATIONS.** Dr. Eveline C. Martin (hist.).

## Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	—	2
Women . .	290	12
Total	290	14

Distribution by Faculties. *Arts*, 258; *sci.*, 46. Total : 304.

*Included in the figures above are :—*

Postgraduate students, 17.

New admissions, 96.

Students from other countries, 17. (Country from which largest number came : U.S.A., 7).

**DEGREES AWARDED** (by Univ. of London) (1958-59). *Arts*: BA (hons.), 68; MA, 2; PhD, 3. *Sci.*: BSc (spec.), 8. Total number of first degrees awarded, 76.

[Information compiled as at 1/8/60]

## WYE COLLEGE

(THE COLLEGE OF ST. GREGORY AND ST. MARTIN AT WYE)

Founded 1893

**Postal Address:** Wye, Ashford, Kent, England

**Cables and Telegrams:** College, Wye

**Stations:** Ashford, 5 m., Wye, ½ m.

**Telephone:** Wye 401

**VISITOR—His Grace THE LORD ARCHBISHOP OF CANTERBURY**

**CHAIRMAN OF GOVERNING BODY—The Rt. Hon. LORD NORTHBOURNE**

PRINCIPAL—D. SKILBECK, CBE, MA *Oxon.*VICE-PRINCIPAL AND LIBRARIAN—E. SITA SMYTH, BA *Brist.*, FLA

SECRETARY AND CLERK TO GOVERNING BODY—C. W. A. GARLAND, BSc

## TEACHING STAFF

[†=Part-Time]

## Agriculture

Holmes, W., BSc(Agric) PhD <i>Glas.</i>	Prof.
Maddison, A. E., BA <i>Oxon.</i> , DipAgricSc <i>Camb.</i>	Lectr.
Duckworth, J. E., BSc(Agric) PhD <i>Durh.</i> (Pig Husb. Res.)	Lectr.
Jones, J. G. W., BSc <i>Durh.</i> , PhD <i>Aberd.</i>	Lectr.
Murray, Marion, BSc(Agric) <i>Edin.</i> , MSc <i>Ohio</i>	Lectr.
Innes, P., BSc <i>Durh.</i>	Asst. Lectr.
Hunton, P., BSc <i>Durh.</i> , MSc	Asst. Lectr.
White, N., BSc <i>Durh.</i>	Asst. Lectr.
Paterson, J. D.	†Lectr.
Gregg, A. S., BSc <i>R'dg.</i>	
(Seconded from Nat. Inst. of Agric. Bot.)	
Keen, P. H., BSc(Agric)	Exper. Officer Farm Mgr.

## Biological Sciences

Selman, I. W., BSc PhD	Reader
Harrison, R. M., BSc	Lectr.
Schimmer, Frieda C., MSc	Lectr.
Ede, D. A., BSc PhD <i>Edin.</i>	Lectr.
Pegg, G. F., MSc <i>Nott.</i> , PhD	Lectr.
Dowrick, N. J., BSc PhD	Lectr.
Kelly, W. A., BSc <i>Wales</i>	Asst. Lectr.
Hill, T. A., BA <i>Camb.</i>	Asst. Lectr.
Hooper, M. D., BSc PhD	Asst. Lectr.
Hinchliffe, J. R., BA <i>Oxon.</i>	Demr.
Hull, R., BA <i>Camb.</i>	Demr.

## Economics

Wibberley, G. P., BSc(Agric) PhD <i>Wales</i> , MS <i>Ill.</i>	Reader
Folley, R. R. W., BSc BCom <i>Leeds</i>	Lectr.
Reid, I. G., DipAgric <i>Camb.</i> , BSc(Econ)	Lectr.
Sykes, J. D., BSc(Agr) <i>Leeds</i> , DipAgricEcon <i>Oxon.</i>	Lectr.
Allanson, G., BA <i>Camb.</i>	Lectr.
Clayton, E. S., BSc(Econ)	Lectr.
Best, R. H., BSc <i>Durh.</i> , MSc	Asst. Lectr.
Tyler, G. J., MSc	Asst. Lectr.
Halls, H. G.	Admin. Asst.
Hooper, J. H., DipAgric	Admin. Asst.

## Hops

Darling, H. S., BSc MAgr <i>Belf.</i> , PhD	Hd. of Dept.
Thompson, F. C., BSc MSc(AgricChem) <i>Durh.</i>	Sr. Scientific Officer
Beard, F. H., DipHort	Sr. Exper. Officer
Neve, R. A., BSc <i>R'dg.</i> , DipAgricSc <i>Camb.</i>	Sr. Scientific Officer
Williams, I. H., MSc PhD <i>Nott.</i>	Sr. Scientific Officer
Coley-Smith, J. R., BSc PhD <i>Birm.</i>	Scientific Officer
Roberts, J. B., MSc <i>Sheff.</i>	Scientific Officer
Farrar, R. F.	Exper. Officer

## Horticulture

Miles, H. W., MSc <i>Brist.</i> , PhD DSc <i>Manc.</i>	Prof.
Wilkinson, E. H., BSc <i>Birm.</i> , PhD <i>Brist.</i>	Sr. Lectr.
Jackson, A. A., BSc <i>Manc.</i>	Lectr.
Sykes, J. T., BSc BSc(Hort)	Asst. Lectr.
Page, Mary	Asst.
Lewis, R. S.	Mkt. Gdns. Mgr.

## Physical Sciences

Wain, R. L., MSc PhD <i>Sheff.</i> , DSc, FRIC, FRS	(Agric. Chem.) Prof.
Smith, Margaret S., BSc PhD	Sr. Lectr.
Askew, G. P., BSc(Agric) BSc	Lectr.
Ingram, Jeanne, BSc(Agric) <i>Edin.</i> , MSc	Lectr.
Williams, D. R., MSc <i>Wales</i>	Lectr.
Garraway, J. L., BSc	Asst. Lectr.
Rutherford, P. P., BA <i>Camb.</i> , PhD <i>Dub.</i>	Asst. Lectr.
Weston, E. W., BSc	Asst. Lectr.
Jones, M. A., BSc	Asst. Lectr.
Whitehead, D. C., BSc PhD <i>R'dg.</i>	Asst. Lectr.
Scientific Officers (Agric. Res. Council Growth Substance & Fungicide Unit)	
Fawcett, C. H., MSc PhD	
Spencer, D. M., BSc <i>Wales</i> , PhD	
Taylor, H. F., BSc(Hort)	
Clarke, G. G., BSc PhD <i>Brist.</i>	
Wright, S. T. C., BSc <i>R'dg.</i> , PhD <i>Brist.</i>	
Rothwell, K., BSc <i>Hull</i> , PhD	
Carter, G. A., BSc <i>R'dg.</i>	

## ADMINISTRATIVE AND OTHER STAFF

Warden of men students : I. H. Williams, MSc  
PhD *Nott.* Warden of women students : E. Sita  
Smyth, BA *Brist.*, FLA. Registrar, Appointments

Sec. & Curator of Museum : A. G. Page, MA  
*Oxon.* Accounts Officer : A. Ireland. Domestic  
Bursar : Eleanor M. Knight.

## GENERAL INFORMATION

Originally founded by cardinal archbishop John Kempe in 1447 as a secular foundation, the coll. continued as a teaching instn. until 1893, as part of the original foundation consisted of a grammar sch. In 1893 it was reorganized as an agric. coll. for men under the principalship of the late Sir A. D. Hall. In 1945 Swanley Hortic. Coll. (for women) was incorporated.

Closely associated with the coll. is the S.E. sub-provincial headquarters of the national agric. advisory service (N.A.A.S.), the central offices and labs. of which are located on the coll. estate.

**CONSTITUTION.** Sch. of Univ. of London since 1900, and now the dept. of agric. & hortic. for the univ. Royal charter granted in 1948. Governing body of 32 members, incl. reps. of univ., Ministry of Agric., coll. staff, S.E. counties, Oxford and Cambridge univs., old students' assocns., etc.

**INCOME (1958-59).** Approx. £252,000 (univ., 54 per cent.; govt. depts., 21 per cent.; fees, 20 per cent.; other sources, 5 per cent.).

**COLLEGE PRECINCT.** The bldgs. of the original 15th-cent. foundation remain in use, with considerably extended teaching and residential accomm. added mainly in the present cent. In addn. there is a mod. hall of residence at Withersdane, about a quarter of a ml. from the coll. The estate comprises approx. 850 acres, incl. farm, hortic., hop res., etc.

**LIBRARY.** Approx. 12,000 vols.

**LABORATORIES.** Bot., chem., geol., hop res., hortic., pathol., phys., zool. **MUSEUM** of agric. implements (at Court Lodge Farm, Brook, Wye).

**ADMISSION.** See p. 965 and Appendix II. The requirements of the fac. of sci. must be satisfied.

**FIRST DEGREES** (of Univ. of London). The coll. provides courses for the following degrees of the Univ. of London: BSc(Agric), BSc(Hortic), BSc(Agric) with hons., 3 yrs. Hons. degree re-

quires higher pre-entry standard in chem. and bot. or zool. or biol., and course proceeds to greater depth in pure sci. subjects.

**HIGHER DEGREES** (of Univ. of London): MSc, 2 yrs. from BSc, in agric., hortic. and allied sci. subjects by res., or exam. and dissertation; MSc in poultry sci., 2 yrs. from BSc(Agric), zool., or vet. sci. by exam. PhD, 3 yrs. from BSc by res.; candidates normally required to register first for MSc.

**RESEARCH.** Facilities for postgrad. res. in agric., hortic., agric. chem., bot., zool., geol., agric. econ., hops.

**FEES PER SESSION.** Tuition—undergrad., £60; postgrad., £30. Student union sub. (compulsory), £4.

**ACADEMIC YEAR.** Oct.—June, 3 terms of 10 weeks each.

**ADULT EDUCATION.** Lectures given to agric., hortic. and sci. socs., farmers' clubs, etc.

**COLLEGE APPOINTMENTS BUREAU** assists in placing qualified students in suitable employment.

**GRADUATES' ASSOCIATION.** Agricola club and Swanley guild (men and women).

**STUDENT RESIDENCES.** Main coll. bldgs. and Withersdane Hall for 135 men and 50 women; Squires residence for 12 postgrad. men. Fees, £165 per session (30 wks.) for full bd. residence.

**STUDENT UNION.** All students belong to the union, which has an elected pres., vice-pres., and council.

**PUBLICATIONS.** *Prospectus*; *Annual Report*; various occasl. publicns., esp. on econ. and hops; reprints from scientific journals and other publicns.; student magazine (3s. per term).

**OTHER FEATURES.** Agric. Res. Council growth substance & fungicide unit & plant morphogenesis unit housed at the coll.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Approaching completion*: new labs.

**RESIGNATIONS.** K. E. Carling (phys. sci.), apptd. lectr., Natnl. Coll. of Food Technol.; Elizabeth Emmerson (hort.), on marriage; W. L. Hinton (econ.), apptd. lectr. in agric. econ., Camb.; Beryl Rickard (phys. sci.).

## Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	201	2
Women . . .	42	1
Total	243	

Distribution by Faculties. *Sci.*, 246 (incl. agric., 176; hort., 64; agric. econ., 6).

*Included in the figures above are:—*

Postgraduate students, 39.

New admissions, 87.

Students from other countries, 16.

**DEGREES AWARDED** (by Univ. of London) (1958-59). BSc(Agric) hons., 13; BSc(Agric), 22; BSc(Hort), 17; MSc, 2; PhD, 3. *Total number of first degrees awarded, 52.*

## THEOLOGICAL SCHOOLS OF THE UNIVERSITY

[Information compiled as at 1/8/60]

## APPOINTED AND RECOGNIZED TEACHERS

In the following list the names of the Theological Schools are indicated thus :

KING'S COLLEGE, THEOLOGICAL DEPT. (KT)

NEW COLLEGE, LONDON (N)

RICHMOND COLLEGE (R)

## Theology

Blackman, Rev. E. C., BD MA <i>Camb.</i>	Lectr. (N)	Simon, Rev. U. E., MTh	Reader (KT)
.....	Samuel Davidson Prof.	*Tasker, Rev. R. V. G., MA BD <i>Camb.</i>	Prof. (KT)
Nuttall, Rev. G. F., MA DD <i>Oxon.</i>	Lectr. (N)	Ward, A. M., MA <i>Camb.</i>	Lectr. (R)
Roberts, Rev. H., MA <i>Wales</i> , PhD <i>Camb.</i> , DD	Lectr. (R)		

## GENERAL INFORMATION

§KING'S COLLEGE, THEOLOGICAL DEPARTMENT (Church of England), Strand, London, W.C.2 (tel. : Temple Bar 5454). Dean - Rev. Canon S. H. Evans, MA BD *Durh.* Sec.—I. P. Shaw, MA. Founded 1846 (*see* p. 1008). Complete courses for all theol. degrees of the univ. Fees : for tuition, undergrad. course, £50 per session. Hostel for students, King's Coll. Theological Hostel, Vincent Square, S.W.1. Fee for residents, £150 per session. Full-time students, 307 ; internal students of the univ., 115 ; pt.-time students, 11. (*Degrees obtained*, 1958-59 : BD, 15 ; DD, 1. Univ. dipls. and certs., 7.) The coll. grants the AKC dipl. in theol. to Anglican students who satisfactorily complete the 3-yr. course in the Strand and a 4th yr. in the dept.'s coll. at St. Boniface College, Warminster, Wilts. (tel. : 3122), warden : Rev. E. J. Townroe, MA *Oxon.*

• §NEW COLLEGE, LONDON (Congrega-

\* Appointed Teacher

tional), 527 Finchley Road, London, N.W.3 (tel. : Hampstead 3719). Principal—Rev. W. J. F. Huxtable, MA. Sec.—Miss M. A. Canning. New College, London, the origin of which goes back to 1673, is a theol. coll. (a div. sch. of the Univ. of London), primarily for the trg. of men and women for the Congregational ministry. Internal students of the univ., 40. Fees (for students not on the foundation) : sessional composition fee of the univ., £50 ; or 9 gs. for each class. (*Degrees obtained*, 1958-59 : BD, 2.)

§RICHMOND COLLEGE (Methodist), Richmond, Surrey (tel. : Richmond 1886). Principal—Rev. H. Roberts, MA *Wales*, PhD *Camb.*, DD. Opened 1843. Students are, normally, candidates who have been accepted for ministry of the Methodist church, but other univ. students may be admitted. Residential accomm. for about 60. Internal students of the univ., 64. Fees : £250 per session for residence and tuition. (*Degrees obtained*, 1958-59 : BD, 7.)

§ Not in receipt of U.G.C. grants

# UNDERGRADUATE MEDICAL AND DENTAL SCHOOLS

[Information compiled as at 18/8/60]

## CHARING CROSS HOSPITAL MEDICAL SCHOOL

Founded 1834

Postal Address: 62-65 Chandos Place, London, W.C.2, England

Telephones: Temple Bar 0581-4, 5256-9

CHAIRMAN—The Rt. Hon. THE LORD INMAN

DEAN—Professor W. J. HAMILTON, DSc *Glas.*, MD, FRCOG

SECRETARY—B. S. DREWE, TD, MA *Camb.*, LLB, FTCL

### TEACHING STAFF

[†=Part-Time]

#### Anæsthesia

Ashworth, H. K., TD, MB ChB *Manc.*,  
FFARCS †Sr. Lectr.  
Hopkins, J. L., FFARCS †Lectr.  
Smith, A. J., FFARCS †Lectr.  
Hopkin, D. A. Buxton, MD DTM&H,  
FFARCS †Lectr.  
Thompson, R. C. W., MB BS, FFARCS †Lectr.  
Fairer, J. G., MB BS, FFARCS †Lectr.

McAllister, R. A. C., BSc *Edin.* Lectr.  
Bone, A. H., BSc Lectr.

#### Dentistry

Blennerhassett, T. H., FDSRCS †Sr. Lectr.

#### Dermatology

Scott, O. L. S., MA MB BChir *Camb.*,  
MRCP †Sr. Lectr.

#### Anatomy

Hamilton, W. J., DSc *Glas.*, MD, FRCOG Prof.  
Glenister, T. W., PhD MB BS Reader  
Hill, W. C. O., MD *Birm.* †Lectr.  
Backhouse, K. M., MB BS Lectr.  
McAllister, Jean R. W., BSc MB ChB *Edin.* Lectr.

#### Forensic Medicine

Gorsky, J. A. †Sr. Lectr.

#### Medicine

De Wardener, H. E., MBE, MD, FRCP Prof.  
Hickling, R. A., BA MD *Camb.*, FRCP †Sr. Lectr.  
Smith, K. Shirley, MD BSc, FRCP †Sr. Lectr.  
Warner, E. C., BSc MD, FRCP †Sr. Lectr.  
Plummer, N. S., MD, FRCP †Sr. Lectr.  
Ironside, R., MB ChB *Aberd.*, FRCP †Sr. Lectr.

#### Biochemistry and Organic Chemistry

Patterson, J., MSc PhD *St. And.* Prof.  
Sykes, W. O., MSc *Sheff.* Sr. Lectr.

Parsons-Smith, B. G., OBE, MA MD *Camb.*,  
FRCP †Sr. Lectr.  
Fowler, P. B. S., BA DM *Oxon.*, MRCP  
†Sr. Lectr.

**Morbid Anatomy and Histopathology**

Symmers, W. St. C., MD *Belf.*, PhD *Birm.*,  
MRCP Prof.  
Sloper, J. C., MA MD *Camb.*, MRCP Reader  
Evans, W. E. D., MD †Sr. Lectr.  
Shore, J., MD Sr. Lectr.

**Neuro-Surgery**

Oliver, L. C., MB BS, FRCS †Sr. Lectr.

**Obstetrics and Gynæcology**

Morris, N. F., MD, FRCOG Prof.  
Arthur, H. G. E., MD, FRCS, FRCOG  
†Sr. Lectr.  
Barnes, A. Josephine M. T., MA DM *Oxon.*,  
MRCP, FRCS, FRCOG †Sr. Lectr.  
Huntingford, P. J., MB BS Lectr.

**Ophthalmology**

Milner, J. G., MA MB BChir *Camb.*,  
FRCS †Sr. Lectr.

**Orthopædic Surgery**

Trevor, D., MB MS, FRCS †Sr. Lectr.

**Oto-Rhino-Laryngology**

Sharp, H. S., BA MB BChir *Camb.*,  
FRCS †Sr. Lectr.  
Taylor, L. R. S., BA MB BChir *Camb.*,  
FRCS †Sr. Lectr.

**Pædiatrics**

Bell, A. D. C., MA DM BCh *Oxon.*,  
FRCP †Sr. Lectr.  
Jolly, H., MA MD, MRCP †Sr. Lectr.

**Pathology, Chemical**

Patterson, J., MSc PhD *St. And.* Prof.  
Swale, J., MB BS Sr. Lectr.

**Pathology, Clinical**

Shaw, S., MD (Hæmatol.) Reader  
Winner, H. I., MA MD *Camb.* (Bacteriol.) Reader

**Pharmacology**

Baker, J. B. E., BSc MA BM BCh *Oxon.* Reader

**Physical Medicine**

Dunham, W. F., BA BM BCh *Oxon.* †Sr. Lectr.

**Physiology**

Burns, W., DSc MB ChB *Aberd.* Prof.  
Lee, J., MB BS, MRCP Sr. Lectr.  
Jones, J. J., BSc MB BS PhD Lectr.

**Psychological Medicine**

Randell, J. B., BSc MB BCh *Wales*,  
MRCP †Sr. Lectr.

**Public Health**

Walton, W. S., GM, MD BHy DPH *Durh.* †Prof.  
Stewart, A. B., MD ChB DPH *St. And.* †Sr. Lectr.

**Radiology, Diagnostic**

Reynolds, S. J. R., MA MB BChir  
DMRE *Camb.* †Sr. Lectr.  
MacLean, C. D. T., MD ChB *Glas.*,  
MRCPEd †Lectr.

**Radiotherapy**

Kunkler, P. B., MA MD, MRCP †Sr. Lectr.

**Surgery**

Rains, A. J. H., MB MS, FRCS Prof.  
MacLeod, A. C., MB BS, FRCS †Sr. Lectr.  
Tanner, N. C., MD ChB *Brist.*, FRCS †Sr. Lectr.  
Greening, W. P., FRCS †Sr. Lectr.  
Makey, A. R., MS, FRCS †Sr. Lectr.  
Philip, P. F., MS, FRCS †Sr. Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Accountant : C. Wilkins. Librarian : B. Armitage, FLA.

**GENERAL INFORMATION**

Charing Cross Hosp. and Med. Sch. were founded in 1818 by Dr. Benjamin Golding, and were formally opened in 1834. A royal charter of incorporation was granted in 1883, and the constitution thereafter continued unchanged until 1948 when, with the introduction of the National Health Service Act, the med. sch. became incorporated as a separate unit.

ADMISSION. See p. 965 and Appendix II.

COURSES. Courses for degrees in med. and surg. Each student holds clin. appts. in every dept. of the hosp. House posts available for most students after qualification.

LIBRARY. Over 9500 vols. Small branches in some depts. and associated hospas.



**MUSEUMS, ETC.** Pathol. museum (incl. Lockyer collection of gynæcol. & obstet. pathol.). Anat. dept. contains unique collection of human uteri in various stages of gestation.

**SCHOLARSHIPS.** Numerous scholps., exhibitions and prizes awarded annually.

**STUDENTS' CLUB.** Provides facilities for rugger, soccer, cricket, hockey, tennis, golf, netball, swimming, sailing, fencing and athletics, and

includes the medical, dramatic, musical, folk-dancing and debating societies.

**FEES.** Annual composition fee, £73 : 10s. (incl. boarding charges during studentship in the associated hosps. of the group and union membership).

**PUBLICATIONS.** *Prospectus*. Students : *Charing Cross Hospital Gazette* (once a term).

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed* : new library.

**NEW DEPARTMENT AND CHAIR.** Surg.

**RETIREMENTS.** E. A. Crook (surg.).

**RESIGNATIONS.** F. A. Elliott (phys.), apptd. to chair of clin. neurol., Penn.

*Included in the figures above are :—*

Postgraduate students, nil.

New admissions, 45.

Students from other countries, 12. (Countries from which largest numbers came : Nigeria, 1 ; Australia, 3).

### Statistics

STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	180	—
Women . . .	52	—
Total	232	

**DEGREES (1958-59).** MB BS Lond., 39 ; MD Lond., 2 ; MB BChir Camb., 1.

**DIPLOMAS, ETC. (1958-59).** LRCP, MRCS, 2 ; MRCP, 1 ; DCH, 2 ; DRCOG, 6 ; DPM, 1 ; DA, 2 ; FRCOG, 1.

[Information compiled as at 30/7/60]

## GUY'S HOSPITAL MEDICAL SCHOOL

Founded 1724

*Postal Address* : St. Thomas's Street, London Bridge, London, S.E.1, England

*Telephone* : Hop 7600

DEAN—E. R. BOLAND, CBE, MD, FRCP

SUB-DEAN (Medical School)—J. C. HOUSTON, MD, FRCP

SUB-DEAN (Dental School)—F. S. WARNER, FDSRCS

SECRETARY—W. F. COOK

## APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time Clin. Teacher]

### Anæsthetics

McConnell, W. S., MB BS, FFARCS (†)  
Helliwell, P. J., MB ChB *Edin.*, FFARCS (†)  
Hutton, A. M., FFARCS (†)

Joseph, J., MD *Glas.* Reader  
Thomas, G. A., PhD BSc Sr. Lectr.  
Williams, P. L., MA MB BChir *Camb.* Sr. Lectr.

### Anatomy

Warwick, R., BSc PhD MD *Manc.* Prof.

### Bacteriology

Knox, R., MD Prof.  
Gorrill, R. H., MD Reader

<b>Biochemistry</b>		Hardwick, C., MD <i>Camb.</i>	(†)
Haslewood, G. A. D., DSc PhD	Prof.	Baker, C. G., OBE, MD	(†)
		Kauntze, R., MD <i>Camb.</i>	(†)
		Macleay, K. S., MD <i>Camb.</i>	(†)
		Houston, J. C., MD	(†)
<b>Biology</b>			
Foxon, G. E. H., MA <i>Camb.</i> , MSc <i>Wales</i>	Prof.		
Baxter, E. W., PhD BSc	Sr. Lectr.		
<b>Cardiology</b>			
Baker, C. G., OBE, MD	(†)	<b>Mental Diseases</b>	
Kauntze, R., MD <i>Camb.</i>	(†)	Stafford-Clark, D., MD, DPM	(†)
<b>Chemistry</b>			
Gent, W. L. G., PhD BSc	Reader	<b>Neurology</b>	
Brain, F. H., MA PhD BSc	Sr. Lectr.	McArdle, M. J. F., FRCP	(†)
<b>Children's Diseases</b>			
Evans, P. R., MD MSc <i>Manc.</i>	(†)	<b>Obstetrics and Gynaecology</b>	
MacKeith, R. C., MA DM <i>Oxon.</i>	(†)	Gibberd, G. F., MS, FRCS, FRCOG	(†)
		Blakley, J. B., MB BS, FRCS, FRCOG	(†)
		Lewis, T. L. T., MB BChir <i>Camb.</i> , FRCS	(†)
		Tomkinson, J. S., FRCS	(†)
<b>Dental Medicine</b>		<b>Ophthalmology</b>	
		Law, F. W., MA MD <i>Camb.</i> , FRCS	(†)
Rushton, M. A., CBE, MA MD <i>Camb.</i> , FDSRCS	Prof.	Cook, C. A. G., MC, GM, FRCS	(†)
Cooke, B. E. D., FDSRCS	Reader	<b>Orthopaedics</b>	
		Stamm, T. T., MB BS, FRCS	(†)
<b>Dental Prosthetics</b>		Batchelor, J. S., FRCS	(†)
Neill, D. J., DFC, FDSRCS	Sr. Lectr.	<b>Oto-Rhino-Laryngology</b>	
<b>Dental Surgery</b>		Cann, R. J., MS	(†)
Warner, F. S., FDSRCS	(†)	Reading, P. V., MS	(†)
Herbert, W. E., FDSRCS	Prof.	Salmon, L. F. W., MBE, MS	(†)
Mansie, J. W., FDSRCS	(†)	<b>Pædiatric Research</b>	
Thompson, A. R. F., BDS, FDSRCS	(†)	Polani, P. E., MD <i>Pisa</i>	Prince Philip Prof.
Macdonald, D. M., FRFPGlas, FRCSEd	(†)	<b>Pathology</b>	
Pringle, K. E., FDSRCS (Orthodontics)	(†)	Wright, G. Payling, DM <i>Oxon.</i>	Prof.
Rix, R. E., FDSRCS (Orthodontics)	(†)	De Navasquez, S. J., MD	Reader
Emslie, R. D., BDS, FDSRCS		Gorer, P. A. I., DSc, FRS	Reader
(Preventive Dent.)	Reader	<b>Pathology, Chemical</b>	
Tulley, W. J., BDS, FDSRCS		Thompson, R. H. S., DM <i>Oxon.</i>	Prof.
(Orthodontics)	Reader	Webster, G. R., MA BM BCh <i>Oxon.</i>	Reader
Vale, W. A., BDS	Sr. Lectr.	Baker, R. W. R., MA PhD	Sr. Lectr.
<b>Dermatology</b>		Wright, P. H., MSc MB ChB	Lectr.
Forman, L., MD	(†)	<b>Pathology, Clinical</b>	
Moynahan, E. J., MRCP	(†)	Merivale, W. H. H., MB BS	(†)
<b>Endocrinology</b>		<b>Pharmacology</b>	
Bishop, P. M. F., DM <i>Oxon.</i>	(†)	Robson, J. M., DSc MD <i>Leeds</i>	Prof.
		Nissim, J. A., MD	Reader
<b>Experimental Medicine</b>		<b>Physics applied to Medicine</b>	
Butterfield, J. W. H., OBE, MA, MRCP	Prof.	Allsopp, C. B., MA PhD DSc	Prof.
Trounce, J. R., MD	(Therap.) Reader	<b>Physiology</b>	
<b>Forensic Medicine</b>		Spurrell, W. R., MS, FRCS	Prof.
Simpson, C. K., MD	†Reader	Bishop, P. M. F., DM <i>Oxon.</i>	(†)
<b>Medicine</b>		Hunt, J. N., DSc MD	Reader
Douthwaite, A. H., MD	(†)		
Boland, E. R., CBE, MD	(†)		
Mann, W. N., MD	(†)		

Anderson, D. J., MSc BDS  
Macdonald, I., PhD MD

### Radiology

Hills, T. H., DMRE *Camb.*, MB BS  
Dow, J. D., MC, MD

### Radiotherapy

Wayte, A. B., DMRE *Camb.*, MB BS

### Surgery

Massie, G., CBE, MS

Reader	Eckhoff, N. L., MS	(†)
Lectr.	Atkins, H. J. B., DM MCh <i>Oxon.</i>	(†)
	Wass, S. H., MS	(†)
	Blackburn, G., OBE, MCh <i>Oxon.</i>	(†)
	Lawrie, R. S., MD MS	(†)
	Glover, F. N., MS	(†)
	Brain, R. H. F., FRCS	(†)
	Clarkson, P. W., MBE, FRCS	(†)
	Kilpatrick, F. R., MS (Genito-Urinary)	(†)
	Kinder, C. H., MChir <i>Camb.</i>	(†)
		(Genito-Urinary) (†)
		(Thoracic) (†)
	Brock, Sir Russell, MS	(†)

## ADMINISTRATIVE AND OTHER STAFF

Warden of the College: C. G. Baker, OBE, MD.  
Director of Student Health Service: R. Kauntze, MD *Camb.*

## GENERAL INFORMATION

**MEDICAL SCHOOL.** The sch. of med. & surg. may be considered to date its formal commencement from about the year 1769.

**LIBRARY.** The Wills library, available for the use of students, contains approx. 20,000 vols., incl. up-to-date text-books, and the usual med. journals.

**MUSEUM.** The Gordon museum, presented to the sch. in 1905, contains specimens of pathol. anat. which form a collection unrivalled for its extent and educnl. value.

**ADMISSION.** See p. 965 and Appendix II.

**COURSES.** Teaching covers all subjects of the med. curriculum, incl. a course for the 1st exam. for med. degrees. Approved courses in the fac. of sci. in anat., physiol. and chem. are also provided.

**RESIDENCE.** Accommodation is provided for approx. 65 sr. students.

**SCHOLARSHIPS.** 2 pre-clin. entrance scholps. of £40 p.a. each for 5½ yrs., awarded annually in March; War Memorial entrance scholp. of £40 p.a., awarded in alternate yrs.; confined jr. sci. scholp. of £100 p.a.; confined Epsom scholp. entitling holder to free med. educn. for 5½ yrs.; clin. entrance scholp. entitling holder to free med. educn. for 3 yrs., and exhibition of £120.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**DENTAL SCHOOL.** Establd. 1888, it is fully equipped on mod. lines and provides for the teaching of the entire dent. curriculum. Dent. students benefit by the intimate assocn. with the med. sch. *Scholps.*: 1 War Memorial entrance scholp. of £50 p.a.; 1 entrance scholp. of the same value; 1 confined jr. sci. scholp. of the value of £100; Jubilee scholp. of £50 p.a. for sons and daughters of men and women who have (a) obtained a registrable qualif. in med., dent. or nursing after studying at Guy's, or (b) held a teaching appt. in the hosp. or schs. for a period of not less than 5 yrs.; 1 confined Epsom scholp. and 1 confined Christ's Hospital scholp. entitling the holders to free dent. educn.; 1 Newland-Pedley confined scholp. of £600 offered every 3rd yr. to a grad. of Oxford or Camb. *Scholps.* (except jr. sci. scholps.) are for normal period of students' course. Annual and other studentships, prizes and medals. See also p. 825.

**FEES.** Annual composition fee (incl. union membership): med., £69 : 9s.; dent., 1st BDS, £69 : 9s., remainder of dent. course, £79 : 9s.

**PUBLICATIONS.** *Guy's Hospital Gazette* (fortnightly); *Guy's Hospital Reports* (quarterly).

## THE YEAR 1959

### Statistics

#### MEDICAL SCHOOL

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	500	62
Women . . .	78	8
Total	578	70

Included in the figures above are:—

Postgraduate students, 46.

New admissions, 106.

**DEGREES** (1958-59). MB BS Lond., 77; MD Lond., 5; BSc Lond., 6; PhD Lond., 1; MB BChir Camb., 25; MD Camb., 2; MCh Wales, 1; BM BCh Oxon., 4; MS Lond., 1.

**DIPLOMAS, ETC.** (1958-59). LRCP, MRCS, 87; LMSSA, 7; FRCS, 3; FRCSEd, 1; MRCP, 9; MRCOG, 1; DA, 4; DOBstRCOG,

28; DCH, 5; DMRD, 1; DPM, 7; DPH, 3;  
DLO, 1; FFARCS, 3; FRCP, 4.

*Included in the figures above are :—*

New admissions, 76.

DEGREES, ETC. (1958–59). BDS Lond., 28;  
PhD Brist., 1; FDSRCS, 4; DO, 1; LDSRCS,  
53.

### DENTAL SCHOOL

STUDENT NUMBERS, 1959–60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	383	19
Women . .	63	10
Total	446	29

Students (full-time) from other countries at  
med. and dent. schs., 103.

[Information compiled as at 18/8/60]

## KING'S COLLEGE HOSPITAL MEDICAL SCHOOL

Founded 1831

*Postal Address* : Denmark Hill, London, S.E.5, England

*Cables and Telegrams* : King's Medical School, London, S.E.5

*Telephone* : Brixton 8661

DEAN—V. F. HALL, CVO, FFARCS

VICE-DEAN—R. C. F. CATTERALL, MChir *Camb.*, FRCS

SUB-DEAN OF THE DENTAL SCHOOL—Professor R. COCKER, MB ChB *Manc.*, FDSRCS

SECRETARY—W. F. GUNN, LLB, FCIS

LIBRARIAN—LILIAN SERGEANT, FLA

### APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

#### Anæsthetics

Hall, V. F., CVO, FFARCS  
Cartwright, F. F., FFARCS  
Galley, A. H., MB BS, FFARCS  
Mason, S. A., MB BS, FFARCS

† Lectr.  
† Lectr.  
† Lectr.  
† Lectr.

Halder, A. R.  
Gimson, A. F.  
Cawson, R. A., MB BS BDS, FDSRCS

Sr. Lectr.  
Sr. Lectr.

Bennett, D. T., FDSRCS  
Schreiber, C. K.  
2 Demrs.

Sr. Lectr.  
Sr. Lectr.  
Lectr.

#### Dental Surgery

Cocker, R., MB ChB *Manc.*, FDSRCS  
Liddelow, K. P., FDSRCS  
Moore, A. S.  
Wade, W. N. L.  
Clarke, R. E., FDSRCSed  
Collyer, W. F., FDSRCS  
Leighton, B. C., MDS  
Kettle, M. A., FDSRCS  
Mayhew, R. A. J., BDS, FDSRCS  
Rosenstiel, E.

Prof.  
Prof.  
† Lectr.  
† Lectr.  
† Lectr.  
Sr. Lectr.  
Sr. Lectr.  
† Lectr.  
Sr. Lectr.  
Sr. Lectr.

#### Dermatology

Williams, D. I., MB BS, FRCP  
Marten, R. H., BM BCh *Oxon.*, MRCP

† Lectr.  
† Lectr.

#### Diseases of Children

Sheldon, Sir Wilfrid, KCVO, MD, FRCP  
Wilmers, Mary J., MD, FRCP

† Dir.  
† Tutor

**Forensic Medicine**

Cogswell, A. P. L., MB BS †Lectr.  
 Rushton, D. G., MB BS †Lectr.

**Industrial Medicine****Medicine**

Hoyle, J. C., MD, FRCP †Dir.  
 Livingstone, J. L., MD, FRCP †Lectr.  
 Critchley, M., MD *Brist.*, FRCP †Lectr.  
 Nevin, S., MD *Belf.*, BSc, FRCP †Lectr.  
 Pearson, R. S. B., DM *Oxon.*, FRCP †Lectr.  
 Oakley, W. G., MA MD *Camb.*, FRCP †Lectr.  
 Oram, S., MD, FRCP †Lectr.  
 Anderson, J., MA MD BSc *Durh.* Sr. Lectr.  
 Pyke, D. A., MD *Camb.*, MRCP †Lectr.  
 Hugh-Jones, P., MA MD *Camb.*, FRCP †Lectr.  
 Freedman, B., MB BS †Assoc. Teacher

**Mental Diseases**

Hill, J. D. N., MB BS DPM, FRCP †Lectr.  
 Wheelan, Lorna, MD *Aberd.*, DPM †Lectr.  
 Freudenberg, R. K., MD *Freib.* †Lectr.

**Obstetrics and Gynaecology**

Peel, Sir John, KCVO, MA BM BCh *Oxon.*, FRCS, FRCOG †Dir.  
 Clayton, S. G., MD MS, FRCS, FRCOG †Lectr.  
 Feroze, R. M., MD, FRCS †Tutor  
 Burt, Lady Joyce M., MB BS †Assoc. Teacher

**Ophthalmology**

Savin, L. H., MD MS, FRCS †Lectr.  
 Lyle, T. K., CBE, MA MD MChir *Camb.*, FRCS †Lectr.  
 Crick, R. P., FRCS †Lectr.

**Oto-Rhino-Laryngology**

Daggett, W. I., MA MB BChir *Camb.*, FRCS †Lectr.  
 Cawthorne, T., FRCS †Lectr.  
 Lewis, R. S., MA MB BChir *Camb.*, FRCS †Lectr.  
 Mawson, S. R., MB BChir *Camb.*, FRCS †Lectr.

**Pathology**

Magnus, H. A., MD, FRCP Prof.  
 Gray, C. H., MD DSc, FRIC, FRCP Prof.  
 Cunliffe, A. C., MA MD *Camb.* Prof.  
 Davidson, W. M., MD *Aberd.* Prof.  
 Cardell, B. S., MD Reader

Smith, M. J. H., MPharm *Wales*, PhD,

FRIC

Jackson, F. L., MB BS DipBact Reader  
 Powell, M. E. A., MB BS Sr. Lectr.  
 Nicholson, D. C., PhD *Leeds* Lectr.  
 Flute, P. T., MB BS Lectr.  
 Rawstron, J. R., MB BS Lectr.  
 Allott, E. N., MA DM *Oxon.*, FRCP, Assoc. Teacher  
 FRIC

Booth, Mollie, MB BS *Syd.*, PhD  
 Brostoff, D. V., PhD Roussel Fellow  
 Tsapogas, M. J. C., MD *Athens* S.K.F. Fellow  
 4 Demers. Pfizer Fellow

**Physical Medicine**

Cooksey, F. S., OBE, MD, FRCP †Lectr.

**Public Health**

Standring, T., MD †Lectr.

**Radiology**

Blewett, J., MD *Melb.*, FFR †Lectr.  
 Rackow, A. M., BSc MB BS DMRE †Lectr.

**Radiotherapy**

Shawcross, E. W. H., MA *Camb.*, DMRE †Lectr.  
 Dalley, Vera M., MB BS DMRT †Lectr.

**Surgery**

Edwards, H. C., CBE, MS, FRCS †Dir.  
 Yates-Bell, J. G., MB BS, FRCS †Lectr.  
 Wood, H. L. C., MS, FRCS †Lectr.  
 Kendall, A. W., MS, FRCS †Lectr.  
 Muir, E. G., MS, FRCS †Lectr.  
 Heriot, A. J., MS, FRCS †Lectr.  
 Rees, H., MA MCh *Oxon.*, FRCS †Lectr.  
 Cleland, W. P., MB BS *Adel.*, FRCS †Lectr.  
 Moore, F. T., OBE, FRCS †Lectr.  
 Catterall, R. C. F., MChir *Camb.*, FRCS †Lectr.  
 Taylor, S. F., MA BM MCh *Oxon.*, FRCS †Tutor  
 Cotton, L. T., MCh *Oxon.*, FRCS †Lectr.  
 Murray, J. G., MB ChB *Aberd.*, FRCSed Sr. Lectr.  
 McCrea, A. N., MB BChir *Camb.*, FRCS †Assoc. Teacher

**Tropical Medicine**

Walters, J. H., MD *Camb.*, FRCP †Lectr.

**Venereal Diseases**

Lydon, F. L., MB BCh BAO *N.U.I.* †Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Student Medical Officer: D. A. Pyke, MD *Camb.*, MRCP. Physicist: R. D. Moore, MSc. Consultant Statistician: M. P. Curwen,

MA *Camb.* Accountant: C. H. Meredith. Asst. Sec.: D. J. Britten, BSc(Econ).

## GENERAL INFORMATION

King's Coll. Hospital Med. Sch. was founded in 1831 and was admitted as a sch. of the univ. in the fac. of med. in 1909. The med. sch. provides the clin. trg. for students reading for the degrees of London, Oxford and Cambridge univs. Under the conditions of the incorporation of King's Coll. in the univ., the univ. continues to teach in the King's Coll. bldgs. the prelim. and inter. med. studies leading to the MB BS and BDS degrees of the Univ. of London.

The new bldgs. of the med. sch. were opened in 1933, and the new dent. sch. in 1940. A further extension to the med. sch. was completed in 1958. The present bldgs. incl. a library (7000 vols.) and reading-room and a pathol. museum. The students' hostel is within 5 minutes' walk of the hosp. and med. sch., and the athletic ground is within 10 minutes' walk. There is a 2nd athletic ground near by.

TEACHING HOSPITALS. King's Coll. H.; Belgrave H.; Dulwich H.

ADMISSION. See p. 965 and Appendix II.

FIRST DEGREES. Clin. course only for MB BS

Lond., MB BChir Camb., BM BCh Oxon., each 3 yrs.; for BDS Lond., 3 yrs. 3 mos.

LICENCE. Clin. course for LDS of Royal Coll. of Surgeons, 3 yrs.

RESEARCH. Facilities in all branches of pathol. Sp. M.R.C. res. inst. in deafness.

ALLIANCE. Registrar exchange scheme with Univ. of Toronto.

SCHOLARSHIPS. Scholps. to the value of £2000 are available for award annually. 23 approved intern appts. are made every 6 mos.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 825.

FEES. Annual composition fee (incl. union membership): med. and dent., £66.

STUDENT HEALTH SERVICE. Instituted 1938; a pt.-time med. officer, who is also available for consultation, is in charge.

PUBLICATIONS. Official: Med. and Dent. Sch. *Prospectuses*, *Annual Report*. Student: *King's Coll. Hospital Gazette* (3 times p.a.). *King's and Some King's Men*, by W. Lyle (O.U.P., 1935, 25s.; *Addendum*, 1950, 30s.).

## THE YEAR 1959

NEW DEPARTMENTS AND CHAIRS. Dept. of forensic med.; chairs in dent. surg. and dent. prosth.

RETIREMENT. C. F. T. East (med.).

RESIGNATION. J. M. Talbot (bacteriol.) to consultant post, Kingston-on-Thames.

DEATHS. A. Gilpin (consultant in med.); P. Pringley (lectr. in indust. med.).

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	234	—
Women . . .	45	—
Total	279	

Distribution by Faculties. *Dent.*, 83; *med.*, 192; *sci.*, 4.

Included in the figures above are:—

Postgraduate students, 26.

New admissions, 78 (53 med., 23 dent., 2 sci.).

Students from other countries, 15. (Countries from which largest numbers came: Ghana, 4; Nigeria, 2).

DEGREES (1958-59). *Dent.*: BDS Lond., 21. *Med.*: MB BS Lond., 45; MB BChir Camb., 3; MD Lond., 2; DM Oxon., 1; MD Camb., 2. *Total number of first degrees awarded*, 69.

DIPLOMAS, ETC. (1958-59). LRCP, MRCS, 38; LDSRCS, 23; LMSSA, 1; MRCP, 1; FRCS, 4; MRCOG, 3; DA, 2; DPM, 3; FFARCS, 2.

[Information compiled as at 18/8/60]

## LONDON HOSPITAL MEDICAL COLLEGE

Founded 1785; incorporated as a constituent School of the University of London in 1900

Postal Address: Turner Street, London, E.1, England

Telephones: Bishopsgate 0644-8

CHAIRMAN—R. M. M. PRYOR, MBE

DEAN—H. B. MAY, MD Camb., FRCP

MEDICAL SUB-DEAN—J. V. CRAWFORD, MBE, MB BS, FRCS

DENTAL SUB-DEAN—N. L. WARD, DDS *Chic.*, LDS *Liv.*

SECRETARY—H. P. LAIRD, BA

## APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

**Anæsthetics**

Brown, A. I. P., FFARCS (†)  
 Fox, G. P., MA *Camb.*, FFARCS (†)

**Anatomy**

Harrison, R. J., DSc *Glas.*, MA MD *Camb.* Prof.  
 Johnson, F. R., MD Reader

**Bacteriology**

Barwell, C. F., MA MD *Camb.* Prof.  
 White, R. G., MA DM *Oxon.* Reader

**Biochemistry**

Warren, F. L., MA *Oxon.*, PhD DSc, FRIC Prof.

**Biochemistry, Experimental**

Morris, C. J. O. R., PhD MSc, FRIC Prof.

**Dental Anatomy**

Fearnhead, R. W., MDS Sr. Lectr.

**Dental Pathology**

Miles, A. E. W., FDSRCS Prof.

**Dental Prosthetics**

Allen, A. G., FDSRCS Dir.

**Dental Surgery**

Allen, S. G., FDSRCS (†)  
 Beresford, J. S., BDS *N.Z.*, DOrth (†)  
 Hankey, G. T., OBE, TD, FDSRCS (†)  
 Keizer, W. R., FDSRCS (†)  
 Slack, G. L., OBE, TD, DDS *Liv.*, FDSRCS Prof.  
 Ward, N. L., DDS *Chic.*, LDS *Liv.* Asst. Dir. of Conservative Dent.  
 Wilson, H. E., LDS *Belf.* (†)

**Dermatology**

Russell, B. F., MD, FRCP (†)

**Diseases of Children**

Dobbs, R. H., MD *Camb.*, FRCP

**Forensic Medicine**

Camps, F. E., MD Reader

**Medicine**

Bomford, R. R., DM *Oxon.*, FRCP (†)

Brain, Sir Russell, MA DM BCh *Oxon.*,  
 DCL *Durh.*, LLD *Belf.*, FRCP,  
 FRFPGlas

Brigden, W. W., MD, FRCP (†)  
 Ellis, J. R., MBE, MD *Camb.*, FRCP (†)  
 Evans, Lord, GCVO, MD, FRCP (†)  
 Evans, W., MD DSc, FRCP (†)  
 Henson, R. A., MD, FRCP (†)  
 Hunter, D., CBE, MD, FRCP (†)  
 Ledingham, J. M., MD Reader  
 Perry, K. M. A., MD, FRCP (†)  
 Rusby, N. L., DM *Oxon.*, FRCP (†)  
 Wilson, C., MA DM *Oxon.*, FRCP Prof.

**Mental Diseases**

Wilson, H. L., MD *Camb.*, FRCP (†)

**Morbid Anatomy**

Doniach, I., MD Prof.  
 Landells, J. W., MB BChir *Camb.* Reader

**Neuro-Surgery**

Northfield, D. W. C., MS, FRCS (†)  
 Crawford, J. V., MBE, MB BS, FRCS (†)

**Obstetrics and Gynæcology**

Brews, R. A., MD MS, FRCS, FRCOG  
 Percival, R. C., FRCS, FRCOG (†)

**Ophthalmology**

Lister, A., MB BChir *Camb.*, FRCS (†)

**Orthopædics**

Clarke, H. Osmond, CBE, MB BCh  
 BAO *Dub.*, FRCS, FRCSI • (†)  
 Law, W. A., OBE, TD, MD *Camb.*, FRCS (†)  
 Vaughan Jackson, O. J., BM BCh *Oxon.*, FRCS (†)  
 Watson-Jones, Sir R. W., BSc MChOrth *Liv.*,  
 Hon. FRCS, Hon. FRACS, Hon.  
 FACS, FRCSEd (†)

**Oto-Rhino-Laryngology**

Bowen-Davies, A., MB BChir *Camb.*, FRCS (†)  
 Keogh, C. A., MB BCh BAO *Belf.*, FRCS (†)  
 Lindahl, J. W. S. H., MA MChir *Camb.*, FRCS (†)

**Pathology**

May, H. B., MD *Camb.*, FRCP (†)  
 Salaman, M. H., MA MD DipBact

**Pharmacology**

Weatherall, M., MA DM *Oxon.* Prof.

**Physical Medicine**

Tegner, W. S., MA BM BCh Oxon., FRCP (†)

**Social and Preventive Medicine**

Morris, J. N., MA Glas., DPH, FRCP

**Physiology**Cross, K. W., PhD MB BS, MRCP  
Glaser, E. M., MC, PhD Camb.,  
MD Bratislava, MRCP

Prof.

Reader

**Surgery**Butler, E. C., MB BS, FRCS  
Dix, V. W., MA, FRCS  
Moore, A. M. A., FRCS  
Richardson, J. E., MS, FRCS  
Taylor, H., MA MD MChir Camb., FRCS  
Tresidder, G. C., MB BS, FRCS

Prof.

**Plastic Surgery**Heanley, C. L., TD, MB BChir Camb.,  
FRCS

(†)

**Radiology**Murray, R. S., MD Belf., DMR, FRCSI  
Rae, L. J., MA MB BChir Camb., DMRE**Thoracic Surgery**Thompson, V. C., MB BS, FRCS  
Flavell, G., FRCS**Radiotherapy**

Shanks, W., MSc MB BCh BAO Belf., FFR

**Venereal Diseases**

King, A. J., MB BS, FRCS

**GENERAL INFORMATION**

The hosp. and annexe at Brentwood provide

**LIBRARY AND MUSEUM.** Library (11,000 vols.) incl. Thomson Yates res. library, containing chief British and foreign periodicals for anat., physiol. and pathol. New addns. to museum incl. section on forensic med.

**LABORATORIES.** Teaching and res. labs. are provided for (1) bacteriol., (2) pathol. & morbid anat. in the Bernhard Baron Inst. of Pathol., (3) anat., (4) pharmacol., (5) physiol. & histol., (6) org. chem. & biochem., (7) exper. biochem., (8) forensic med., (9) med. & surg. res. labs., (10) dent. pathol., (11) conservative & prosthetic dent.

**ADMISSION.** See p. 965 and Appendix II.

**FIRST DEGREES.** MB BS Lond., 4½ yrs.; BM BCh Oxon., MB BChir Camb., each 3 yrs.; BSc (spec.) Lond., 1 yr. after passing 2nd MB Lond.; BDS Lond., 4½ yrs.

**FEES.** Annual composition fee (incl. union membership): med. and dent., £70.

**SCHOLARSHIPS.** There are 48 scholps. and prizes.

**RESIDENCE.** Hostel for 128 men and 16 women students adjacent to coll. (tel.: Bishopsgate 7017). Charges: £2 : 18s. : 6d. to £3 : 12s. : 6d. per week.

**PUBLICATIONS.** *Prospectus* and *Calendar* (annual); *Directory of former students* (every 3 yrs.); *The Hist. of the London Hosp.* (Arnold & Co., 1910); (students) *L.H. Gazette*.

**THE YEAR 1959**

**PRINCIPAL BENEFACTIONS.** Estate of Dr. L. Smith, £10,000 for postgrad. scholp.

**MAJOR BUILDING DEVELOPMENTS.** New hall and extension to students' hostel.

**RETIREMENT.** Prof. Dorothy S. Russell (morbid anat.).

**RESIGNATIONS.** Dr. R. Creese (physiol.); Dr. H. Harris (biochem. genetics); Dr. R. G. F. Parker (morbid anat.).

**DEATH.** Sir Robert Hutchison (consulting physician).

**HONORARY DEGREES.** DSc—Dr. D. Hunter; Rt. Hon. The Lord Evans.

**Statistics**

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

**MEDICAL AND DENTAL***Full-Time Part-Time*

Men	451
Women	93
Total	544

**Distribution by Faculties.** Dent., 124; med., 416; sci., 4. Total: 544.  
Postgraduate students, 7.



*Included in the figures above are :—*

New admissions, 111.

Students (full-time, med. and dent.) from other countries, 31.

DEGREES (1958-59). BDS Lond., 17 ; MB BS

Lond., 51 ; BSc Lond., 8 ; DSc Lond., 4 ; MB BChir Camb., 16 ; MD Camb., 2 ; BM BCh Oxon., 3.

OTHER QUALIFICATIONS (1958-59). LDS, 12 ; LRCP, MRCS, 34.

[Information compiled as at 18/8/60]

## MIDDLESEX HOSPITAL MEDICAL SCHOOL

Founded 1835

*Postal Address* : Mortimer St., London, W.1, England

*Cables and Telegrams* : Middlesex Hospital Medical School, London, W.1

*Telephone* : Museum 8333

CHAIRMAN—Colonel The LORD ASTOR OF HEVER

DEAN—Professor Sir B. W. WINDEYER, MB BS *Syd.*, DSc *Br. Col.*, DMRE *Camb.*, MRCP, FRCS, FRCSEd, FRACS, FFR

SECRETARY—EILEEN M. WALTON

### APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

<b>Anæsthetics</b>		<b>Dermatology</b>	
Dinnick, O. P., MB BS		(†) Bettley, F. R., TD, MD, FRCP	(†)
<b>Anatomy</b>		<b>Diseases of Children</b>	
Walls, E. W., BSc MD <i>Glas.</i>	Prof.	Hart, E. W., MBE, MA MD <i>Camb.</i> , DCH	(†)
Silver, P. H. S., PhD MB BS	Reader	<b>Diseases of Nervous System</b>	
<b>Bacteriology</b>		Kremer, M., MD BSc, FRCP	(†)
Thompson, R. E. M., MB BS	Reader	Gilliatt, R. W., MC, MA DM <i>Oxon.</i> , MRCP	(†)
<b>Biochemistry</b>		<b>Hæmatology</b>	
Dodds, Sir Charles, MVO, DSc PhD MD, FRCP, FRIC, FRS	Prof.	Stewart, J. W., MB BS	Reader
Dickens, F., MA <i>Camb.</i> , DIC, DSc PhD, FRIC, FRS	Prof.	<b>Medicine</b>	
Lawson, W., MSc <i>Liv.</i> , FRIC	Reader	Bedford, D. E., MD, FRCP	(†)
Kellie, A. E., PhD	Sr. Lectr.	Marriott, H. L., CBE, MD, FRCP	(†)
Jepson, J. B., MA <i>Camb.</i> , BSc DPhil <i>Oxon.</i> , FRIC	Sr. Lectr.	Willcox, A., MA MD <i>Camb.</i> , FRCP	(†)
<b>Biology</b>		Hadley, G. D., MA MD <i>Camb.</i> , FRCP	(†)
Newth, D. R., PhD	Prof.	Kekwick, A., MA MB BChir <i>Camb.</i> , FRCP	Prof.
<b>Cardiology</b>		Scadding, F. H., MD, FRCP	(†)
Somerville, W., MD <i>N.U.I.</i> , MRCP	(†)	Nabarro, J. D. N., MD	(†)
<b>Chemistry</b>		<b>Mental Diseases</b>	
O'Sullivan, D. G., DIC, BSc PhD	Lectr.	Hobson, J. A., BSc MD, DPM	(†)
Holt, S. J., BSc PhD, FRIC	Lectr.	<b>Morbid Anatomy</b>	
		Thackray, A. C., MD <i>Camb.</i>	Reader

<b>Neuro-surgery</b>		<b>Plastic Surgery</b>	
Logue, V., FRCS	(†)	Mowlem, R., MB ChB N.Z., FRCS	(†)
<b>Obstetrics and Gynaecology</b>		<b>Radiodiagnosis</b>	
Roques, F. W., MA MD MChir Camb., FRCS, FRCOG	(†)	Golding, F. C., MB ChM Syd., DMRE Camb., FRCP, FFR	(†)
Winterton, W. R., MA MB BChir Camb., FRCS	(†)	<b>Radiotherapy</b>	
Jackson, I. M., BA MB BChir Camb., FRCS	(†)	Windeyer, Sir B. W., MB BS Syd., DSc Br. Col., DMRE Camb., MRCP, FRCS, FRCSED, FRACS, FFR	Prof., Dean of Med. Sch.
<b>Ophthalmology</b>		Snelling, Margaret D., BS, FRCS	(†)
Goldsmith, A. J. B., MB BS, FRCS	(†)	<b>Surgery</b>	
<b>Orthopaedics</b>		Riches, Sir Eric, MC, MB MS, FRCS	(†)
Newman, P. H., DSO, MC, FRCS	(†)	Patey, D. H., MB MS, FRCS	(†)
<b>Oto-Rhino-Laryngology</b>		Handley, R. S., OBE, MA MB BChir Camb., FRCS	(†)
Wilson, C. P., CVO, FRCS	(†)	Murray, C. J. B., MS, FRCS	(†)
Monkhouse, J. P., MB BS, FRCS	(†)	Lloyd-Davies, O. V., MS, FRCS	(†)
Ranger, D., MB BS	(†)	Ferguson, J. H. L., MA MB BChir Camb., FRCS	(†)
<b>Pathology</b>		<b>Thoracic Surgery</b>	
Scarff, R. W., MB BS	Prof.	Sellors, T. H., MA DM MCh Oxon., FRCS	(†)
<b>Pharmacology</b>		<b>SPECIAL LECTURESHIPS</b>	
Keele, C. A., MD, FRCP	Prof.	<b>Medicine</b>	
Hobbiger, F., MD Vienna, PhD	Reader	Joules, H., MD, FRCP	(†)
<b>Physical Medicine and Rheumatism</b>		Avery Jones, F., MD, FRCP	(†)
Boyle, A. C., MD, FRCP	(†)	Asher, R. A. J., MD, FRCP	(†)
<b>Physics</b>		Ball, K. P., MD, MRCP	(†)
Roberts, J. E., DSc, FIP	Prof.	<b>Surgery</b>	
Cook, H. F., BSc PhD, FIP	Reader	Illyd James, T. G., BSc MCh MB, FRCS	(†)
<b>Physiology</b>		Fergusson, J. D., MA MD Camb., FRCS	(†)
Neil, E., BSc MD	Prof.		
Green, J. H., MA MB BChir Camb., PhD	Reader		

## ADMINISTRATIVE AND OTHER STAFF

Accountant : N. D. Stone. Librarian : Jean Hickling, FLA.

## GENERAL INFORMATION

The sch. was built as a complete med. sch. for the teaching of anat. and physiol., chem., phys. and biol. in 1835, but teaching in the wards had begun in the earliest days of the hosp.'s existence, nearly 100 yrs. before.

The first section of the new pre-med. and pre-clin. sch. was occupied in Jan. 1960. It comprises large teaching labs. and lecture theatres.

The second section will contain professorial rooms, res. labs., dining hall, admin. rooms, etc., and the final phase will be the residential coll. for 175 students which will also contain student amenities.

The theoretical and practical teaching of all the

2 M

subjects of the med. curriculum, incl. chem., phys. and biol. for the 1st MB exam., is carried out within the sch., which contains the Bland-Sutton Inst. of Pathol., with museum and labs.; Barnato-Joel res. labs. (phys.); S. A. Courtauld Inst. of Biochem.; Ferens Inst. of Otol.; Meyerstein Inst. of Radiotherapy; clin. res. inst.; professorial med. unit and surg. unit.

**LIBRARY.** The Boldero library (5015 vols.) is open to all students of the sch. and contains the latest med. text-books and the leading med. journals.

**ADMISSION.** See p. 965 and Appendix II.

**RESIDENCE.** There is limited accomm. for resident students. Surgical dressers live in during their 'emergency week', as do the extern clerks during their course in midwifery.

**SCHOLARSHIPS AND PRIZES.** Numerous scholps. and prizes are awarded annually to a total value of over £1000. These incl. 2 entrance scholps. to the value of £100 each; 2 scholps. value £100 each for Univ. of London students of the med. sch. who have completed studies in anat. and physiol.; and 2 open to students of the univs. of Oxford and Camb. who have completed the curriculum for, or passed, the exams. in anat. and physiol.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**FEES.** Entrance, £15:15s.; annual tuition fee, £60 p.a.; clubs' sub. (compulsory), £7:7s. p.a.

**ALLIANCE.** An exchange scheme exists at consultant and professorial level with the med. fac. of the Univ. of Toronto.

**STUDY LEAVE.** Applicns. for study leave are considered individually by the sch. council.

**PUBLICATIONS.** *Med. School Prospectus* (annually in mid-Sept.); *The Story of the Middlesex Hosp. Med. School 1835-1935*, by Dr. H. C. Thomson (written for sch.'s centenary); *Middlesex Hosp. Journal* (produced by students bi-monthly).

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* phase I, new pre-med. & pre-clin. teaching block.

**NEW CHAIR.** Biol. as appl. to med.

**RETIREMENTS.** Prof. J. H. Woodger (biol.); H. W. Breese (cons. dent. surg.).

**RESIGNATIONS.** N. G. Harris (cons. psych. med.); R. V. Hudson (cons. surg.); P. Wiles (cons. orthop. surg.).

**DEATHS.** Dr. B. R. M. Johnson (cons. anæsth.); Sir Robert Young (hon. cons. med.); Prof. J. Kirk (emer. prof. anat.).

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	381	—
Women . . .	83	—
Total . . .	464	—

*Included in the figures above are:—*

Postgraduate students, 51 (47 m., 4 w.).

New admissions, 65 (53 m., 12 w.).

Students from other countries, 46 (42 m., 4 w.).

(Countries from which largest numbers came: India, 4; Ghana, 3; Jordan, 3).

**DEGREES** (1958-59). MB BS Lond., 51; PhD Lond., 8; MB BChir Camb., 20; BM BCH Oxon., 8. *Total number of first degrees awarded, 79.*

**OTHER QUALIFICATIONS** (1958-59). LRCP, MRCS, 19; LMSSA, 1; MRCP, 4; FRCS, 4.

[Information compiled as at 31/7/60]

## ROYAL DENTAL HOSPITAL OF LONDON, SCHOOL OF DENTAL SURGERY

Founded 1858

*Postal Address:* 32 Leicester Square, London, W.C.2, England

*Telephone:* Whitehall 6427

**CHAIRMAN OF THE COUNCIL—**The Rt. Hon. VISCOUNTESS MONCKTON OF BRENCHELEY, CBE

**DEAN—**Professor R. B. LUCAS, MD DPH *Edin.*, MRCP

**SCHOOL SECRETARY—**K. R. McK. BIGGS, BA

# APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

<b>Children's Dentistry</b>		<b>Oral Anatomy</b>	
Hovell, J. H., FDSRCS	†Hd. of Dept.	Blackwood, H. J. J., MD BDS <i>Belf.</i>	Reader
James, P. M. C., LDS DPD	Sr. Lectr.		
<b>Conservative Dentistry</b>		<b>Oral Pathology</b>	
Pickard, H. M., FDSRCS	Reader	Lucas, R. B., MD DPH <i>Edin.</i> , MRCP	Prof.
<b>Dental Prosthetics</b>		<b>Oral Surgery</b>	
Chick, A. O., MDS PhD <i>Brist.</i>	Prof.		Prof.
<b>Dental Surgery</b>		<b>Orthodontics</b>	
Hovell, J. H., FDSRCS	(†)		
James, P. M. C., LDS DPD	Sr. Lectr.	Walther, D. P.	Reader
Fickling, B. W., FRCS, FDSRCS	(†)		
Walker, D. G., MA MD BAO		<b>Radiology</b>	
MDentSc <i>Dub.</i> , FDSRCS	(†)		
Hardwick, H. L., FDSRCS	(†)	Blackman, S., DMRE <i>Camb.</i>	(†)
Graham, M. P., FDSRCS	(†)		

## ADMINISTRATIVE AND OTHER STAFF

Asst. Dean : P. M. C. James, LDS DPD. Hon. Librarian : H. M. Pickard, FDSRCS.  
Asst. School Secretary : Beryl D. Cottell. Accountant : E. G. Smith.

## GENERAL INFORMATION

Founded 1858 by Odontological Soc. of London. Opened in Soho Square 1859, after successful appeal to Royal Coll. of Surgeons and parliament for establ. of exam. for licentiate in dent. surg. Moved to Leicester Square in 1874. Present bldg. erected 1901. A sch. of the univ. since 1911. Incorporated 1948, pursuant to section 15 of the N.H.S. Act (1946), when its parent hosp. was designated to St. George's Hosp. group.

**CONSTITUTION.** Governed by a council incl. repas of univ., Royal Dental Hosp. and teaching staff.

**INCOME (1958-59).** Total income : £99,056 (endowments, 1 per cent. ; univ. court, 87 per cent. ; fees, 9 per cent. ; other sources, 3 per cent.).

**LIBRARY.** Stobie memorial library, 2667 vols. ; full reading service.

**FACILITIES OF SPECIAL INSTITUTIONS.** Pre-clin. students attend courses in anat. and physiol. at St. Bartholomew's Hosp. Med. Coll. Clin. students attend courses in general med. and surg. at Charing Cross Hosp. Med. Sch. New dept. of pathol. provides teaching of general pathol. and bacteriol. as well as dental aspects of these subjects.

**ADMISSION.** See p. 965 and Appendix II. Students are admitted in Oct. to courses leading to the BDS degree of the univ. or LDS dipl. of the Royal Coll. of Surgeons. Candidates must

have satisfactory qualifs. in general educn. and pass or gain exemption from the 1st MB or pre-med. exam., except that a limited number of selected students may now be admitted to the 1st MB course at St. Bartholomew's Hosp. Med. Coll. Admission to LDS course now severely restricted.

**DURATION OF COURSES.** BDS, approx. 4½ yrs. after passing 1st MB exam. LDS, approx. 4 yrs. after passing pre-med. exam.

**FEES.** BDS degree or LDS dipl.—entrance fee, 10 gs. ; composition fee (incl. all normal tuition fees, materials, hire of apparatus, etc.) 75 gs. p.a. (final instalment for BDS students, £25).

**SCHOLARSHIPS.** Numerous scholps. and prizes are awarded annually, incl. an entrance scholp. of £100.

**STUDENTS' SOCIETY AND ATHLETIC CLUB.** Provide facilities for academic and soc. meetings, debates, etc., and the following sports : athletics, badminton, cricket, fencing, golf, hockey, rugby, sailing, soccer, squash, swimming, tennis.

**STUDENT HEALTH SERVICE.** Annual exam. of all students by mass miniature radiog. by arrangement with univ. General student health service by arrangement with St. George's Hosp. Med. Sch. has operated since 1951.

**PUBLICATIONS.** *Calendar ; Royal Dental Hosp. Magazine.*

## THE YEAR 1959

RETIREMENT. N. J. Ainsworth (dent. surg.).

New admissions, 43 (incl. 39 pre-clin.\*).

## Statistics

Students from other countries, 12. (Countries from which largest numbers came: Spain, 3; India, 2; Kenya, 2; S. Africa, 2).

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time*</i>	<i>Occasional</i>
Men . .	127	36	29
Women .	36	16	6

DEGREES AWARDED (by Univ. of London) (1958-59). BDS Lond., 17.

Total . 163 52 35

Included in the figures above are:—

Postgraduate students, 39.

DIPLOMAS, ETC. (1958-59). DOrthRCS, 2; LDSRCS, 26 (incl. 13 students who also graduated BDS).

\* BDS students attending pre-clin. courses at other schs. of the univ.

[Information compiled as at 18/8/60]

## ROYAL FREE HOSPITAL SCHOOL OF MEDICINE

Founded 1874

Postal Address: Hunter Street, Brunswick Square, London, W.C.1, England

Telephone: Terminus 5385

PRESIDENT—Professor MARY F. LUCAS KEENE, DSc MB BS, FRCS

DEAN—KATHARINE G. LLOYD-WILLIAMS, CBE, MD, FFARCS

CHAIRMAN OF THE COUNCIL—Sir FRANCIS W. LASCELLES, KCB, MC

HON. TREASURER—Sir DONALD F. ANDERSON, MA Oxon.

SECRETARY—STEPHANIE C. S. ROBINSON, MA

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

## Anæsthetics

Dawkins, C. J. M., MA MD *Camb.*,  
 FFARCS (†)  
 Lloyd-Williams, Katharine G., CBE, MD,  
 FFARCS (†)  
 Steel, G. C., FFARCS (†)  
 Willis, J., FFARCS (†)  
 Wynter, T., MD, FFARCS (†)

## Biology

Lucas, Catherine L. T., MSc Sr. Lectr.  
 Hughes, Mrs. Margaret, BSc PhD Sr. Lectr.

## Chemistry, Inorganic

Sanderson, Phyllis M., DIC, BSc PhD Sr. Lectr.  
 Kurzer, F., BSc PhD DSc Sr. Lectr.

## Anatomy

Bowden, Ruth E. M., MB BS DSc Prof.  
 Napier, J. Reader  
 Davis, P. R., PhD MB BS Sr. Lectr.  
 MacKinnon, Pamela C. B., PhD MB BS Lectr.

## Chemistry, Organic

Lawson, A., BSc PhD *Glas.*, DSc Reader

## Dermatology

Calnan, C. D., MA MB BChir *Camb.*,  
 MRCP (†)

## Biochemistry

Ryman, Brenda E., MA *Camb.*, PhD *Birm.* Lectr.

**Hæmatology**

 Fleming, W. J. D., MB BChir *Camb.* Sr. Lectr.

**Infectious Diseases**

 Gunn, W., MA MB ChB *Aberd.*, DPH, FRCP (†)  
 Ramsay, A. M., MA MD (†)

**Laryngology and Otology**

 Scott-Brown, W. G., CVO, MA MD *Camb.*, FRCS (†)

**Medical Microbiology**

Crowley, Nuala F. T. Sr. Lectr.

**Medicine**

 Compston, N. D., MA MD, FRCP (†)  
 Davis, H., MA MB BChir *Camb.*, FRCP (†)  
 Dimsdale, Mrs. Helen E., MA MD *Camb.*, FRCP (†)  
 Gardner, Frances V., MD, FRCP (†)  
 Hancock, P. E. T., MB BChir *Camb.*, FRCP (†)  
 Ledingham, Mrs. Una C., MD, FRCP (†)  
 Lee Lander, F. P., OBE, MD, FRCP (†)  
 Macpherson, Alice M. C., MD, FRCP (†)  
 Sherlock, Sheila P. V., MD *Edin.*, FRCP Prof.

**Mental Diseases**

 Brown, F. W., DM *Oxon.*, MRCP (†)  
 Hardwick, S. W., MD, MRCP (†)

**Morbid Anatomy**

Scott, G. B. D., MD Reader

**Obstetrics and Gynæcology**

 Barnes, A. Josephine, MA DM *Oxon.*, MRCP, FRCS, FRCOG (†)  
 Howkins, J., MD MS, FRCS, FRCOG (†)  
 Mocatta, Sybil G., MD, FRCS (†)  
 Moore, Jocelyn A. M., MB BS, FRCS, FRCOG (†)  
 Robinson, Kathleen M., MD, FRCS, FRCOG (†)

**Ophthalmology**

 Dollar, Jean M., MS, FRCS (†)  
 Hobbs, H. E., MB BS, FRCS (†)

**Oto-Rhino-Laryngology**
**Pædiatrics**

 Hart, E. W., MBE, MD *Camb.*, FRCP (†)  
 James, Ursula, MB BS, FRCP (†)  
 Moncrieff, Zina E., MA MB ChB *Aberd.*, MRCP (†)  
 Shelley, Ursula, MD, FRCP (†)

**Pathology**

Hill, K. R., BSc MD, MRCP Prof.

**Pathology, Chemical**

Baron, D. N., MD Reader

**Pharmacology**

 Zaimis, Mrs. Eleanor J., BSc MD *Athens* Prof.  
 Hodges, J. R., BPharm PhD Sr. Lectr.

**Physics**

 Simons, H. A. B., MA *Camb.*, PhD Reader

**Physiology**

 Downman, C. B. B., BSc PhD Prof.  
 Scott, Mrs. Patricia P., BSc PhD Sr. Lectr.  
 Duke, Helen N., PhD MB ChB *Edin.* Lectr.  
 Moore, R. E., PhD MB BS Lectr.

**Radiotherapy**

Wade, Phyllis, MB BS (†)

**Surgery**

 Gray, C. H., BSc MB ChB *Manc.*, FRCS (†)  
 Hindenach, J. C. R., MD *N.Z.*, FRCS (†)  
 Johnson, H. D., MA MB BChir *Camb.*, FRCS (†)  
 MacLeod, A. C., MB BS, FRCS (†)  
 Qvist, G., MB BS, FRCS (†)  
 Rees, H., MA MCh *Oxon.*, FRCS (†)  
 Emlyn Williams, A., BSc MB BCh *Wales*, FRCS (†)

**ADMINISTRATIVE AND OTHER STAFF**

Registrar : Pauline McCormick, BA. Accountant : Winifred Webb. Asst. Sec. : Mrs. Gladys

Barnes, BA. Librarian : Patricia Fear. House Steward : Carmen Norfolk.

**GENERAL INFORMATION**

Founded 1874. Incorporated as a sch. of the univ. in 1900. Royal charter granted 1938.

COURSES. Entry is restricted to students over the age of 18 to read for univ. degrees. Complete

courses of study for med. exams. of the univ., incl. 1st MB. Courses in anat. and physiol. in fac. of sci. Facilities in clin. and pre-clin. depts. for postgrad. and res. students. Pre-clin. teaching is given in the main sch. bldgs., clin. teaching in the Royal Free Hosp. teaching group (over 900 beds), comprising the parent hosp. in Gray's Inn Rd., W.C.1, and its annexes at Lawn Rd., Hampstead, and Liverpool Rd., N.1, the Elizabeth Garrett Anderson and Hampstead General Hosps.

**LIBRARIES AND MUSEUMS.** Main library (10,000 vols.) in sch. bldgs. Small libraries in depts. and in all hosps. New anat. museum in main sch.; pathol. at Gray's Inn Rd.

**ADMISSION.** See p. 965 and Appendix II.

**FEES.** Entrance fee, £5. Annual composition

fee (incl. students' union sub.): undergrad., £65; postgrad., £40.

**SCHOLARSHIPS.** Entrance scholps. and undergrad. awards to total value of £2000 offered annually, and postgrad. scholps. to total value of £2500, incl. Annie McCall fellowship in mid-wifery, value £1500. See also p. 825.

**STUDENT HEALTH SERVICE.** Full med. exam. every 2nd yr. Physician-in-charge holds weekly clinics.

**ATHLETIC FACILITIES.** The sch.'s athletic ground is at Myddelton House, Enfield. Pitches for rugby and assocn. football, hockey, lacrosse, net-ball, cricket and tennis. Club-house and gardens adjoining.

**PUBLICATIONS.** *Annual Prospectus*; *Annual Report*; *Royal Free Hosp. Journal* (quarterly).

## THE YEAR 1959

**NEW DEPARTMENTS AND CHAIRS.** Professorial unit in med.

**RETIREMENTS.** R. T. Brain (dermatol.); D. Josephine Collier (oto-rhino-laryngol.); Lilian M. Dickson (anat.); Gladys Hill (obstet. & gynæcol.); Agnes Kennedy (anæsth.).

### Statistics

#### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	81	4
Women . . .	366	1
Total . . .	447	5

Distribution by Faculties. *Med.*, 436; *sci.*, 16. Total: 452.

*Included in the figures above are :-*

Postgraduate students, 22.

New admissions, 110.

Students from other countries, 50. (Countries from which largest numbers came: Malaya, 7; W. Indies, 5; Nigeria, 5).

**DEGREES AWARDED** (by Univ. of London) (1958-59). BSc (anat.), 2; BSc (physiol.), 2; MB BS, 74; MSc (physiol.), 1; PhD, 2; MD, 2; MS, 1.

**DIPLOMAS, ETC.** (1958-59). LRCP, MRCS, 86; FRCS, 1; FFARCS, 2; MRCP, 2; MRCOG, 2; DA, 3; DCH, 5; DMRD, 1; DMRT, 1; DPhysMed, 1; DPM, 2; DPH, 3; DRCOG, 7; DTM&H, 1.

[Information compiled as at 18/8/60]

## ST. BARTHOLOMEW'S HOSPITAL MEDICAL COLLEGE

Founded 1662

*Postal Address:* West Smithfield, London, E.C.1, England

*Telephone:* Monarch 7404

**PRESIDENT**—Sir GEORGE AYLWEN

**VICE-PRESIDENT**—F. C. W. CAPPS, FRCS

**DEAN**—D. F. ELLISON NASH, FRCS

**SUB-DEAN**—R. A. BOWEN, MB BS, FFARCS

**SECRETARY**—C. E. MORRIS, FCA

## APPOINTED AND RECOGNIZED TEACHERS

**Anæsthetics**

Evans, F. T., MB BS, FFARCS  
 Hewer, C. L., MB BS, FFARCS  
 Ellis, G. H., FFARCS  
 Bowen, R. A., MB BS, FFARCS  
 Ballantine, R. I. W., FFARCS

**Anatomy**

Cave, A. J. E., MD DSc *Manc.*, FRCS, FLS Prof.

**Bacteriology**

Garrod, L. P., MD *Camb.*, FRCP Prof.  
 Shooter, R. A., MD *Camb.* Reader

**Biochemistry**

Wormall, A., DSc *Leeds*, FRS, FRIC Prof.  
 Francis, G. E. C., PhD *Lond.*, FRIC Reader  
 Wills, E. D., MA *Camb.*, MSc PhD  
 Hawkins, J. D., MA *Camb.*, PhD *Lond.*

**Children's Diseases**

Harris, C. F., MD, FRCP  
 Franklin, A. W., MA MB BChir *Camb.*, FRCP

**Dental Surgery**

Hankey, G. T., OBE, TD, FDSRCS

**Dermatology**

MacKenna, R. M. B., MD *Camb.*, FRCP

**Medicine**

Black, K. O., MD *Camb.*, FRCP  
 Cullinan, E. R., MD, FRCP  
 Gibb, W. E., DM *Oxon.*, FRCP  
 Hayward, G. W., MD, FRCP  
 Oswald, N. C., MD *Camb.*, FRCP  
 Scott, R. Bodley, DM *Oxon.*, FRCP  
 Scofield, E. F., MD, FRCP Reader  
 Spence, A. W., MD *Camb.*, FRCP  
 Spencer, A. G., MD *Lond.*, MRCP Reader  
 Turner, J. W. A., DM *Oxon.*, FRCP

**Obstetrics and Gynæcology**

Beattie, W. J. H. M., MD *Camb.*, FRCS, FRCOG  
 Fraser, D. B., BM BCh *Oxon.*, FRCS  
 Howkins, J., MD MS, FRCS, FRCOG

**Ophthalmology**

Stallard, H. B., MBE, TD, MD *Camb.*,  
 Hon. LLD *St. And.*, FRCS

**Orthopædics**

Burrows, H. J., MA MD *Camb.*, FRCS, FRACS  
 Coltart, W. D., MB BS, FRCS

**Oto-Rhino-Laryngology**

Capps, F. C. W., FRCS  
 Jory, N. A., FRCS  
 Hogg, J. C., MB BChir *Camb.*, FRCS

**Pathology**

Blacklock, J. W. S., MD *Glas.*, FRFPGlas Prof.  
 Lehmann, H., MD *Basle*, PhD *Camb.*, FRIC  
 Stansfeld, A. G., MD BChir *Camb.*  
 Brewer, H. F., MD *Camb.*  
 Anderson, A. B., PhD, FRIC

**Pharmacology**

Quilliam, J. P., MSc MB BS *Lond.* Reader

**Physics**

Rotblat, J., DSc *Warsaw* Prof.  
 Banks, T. E., PhD *Birm.*, FIP Sr. Lectr.

**Physiology**

Daly, M. de B., MA MB BChir *Camb.* Prof.  
 McDonald, D. A., MB BCh *Oxon.* Reader

**Psychiatry****Radiology**

Harper, R. A. K., MD *Edin.*, FFR, FRCPed, FRFPGlas  
 Simon, G., MD DMRE *Camb.*, FFR  
 Williams, I. G., DMRE *Camb.*, MB BS, FRCS, FFR

**Surgery**

Badenoch, A. W., MA MD ChM *Aberd.*, FRCS  
 Hill, I. M., MS, FRCS  
 Hunt, A. H., DM MCh *Oxon.*, FRCS  
 Nash, D. F. E., FRCS  
 Naunton Morgan, C., MB BS, FRCS  
 O'Connell, J. E. A., MS, FRCS  
 Taylor, G. W., MB BS, FRCS Prof.  
 Tubbs, O. S., MB BChir *Camb.*, FRCS  
 Tuckwell, E. G., MCh *Oxon.*, FRCS

**Venereal Diseases**

Nicol, C. S., MD

**Zoology and Comparative Anatomy**

Lacy, D., MA *Oxon.*, PhD *Lond.*



## ADMINISTRATIVE AND OTHER STAFF

Warden : G. Ellis, FFARCS. Medical Officer : J. H. Coulson, DCH. Librarian : J. L. Thornton.

## GENERAL INFORMATION

St. Bartholomew's Hosp. was founded in 1123 by the monk Rahere, who subsequently founded the priory of St. Bartholomew's. The med. coll. was founded in 1662.

The coll. forms part of the Univ. of London and carries out its clin. teaching in St. Bartholomew's Hosp. in the city of London. Non-members of the univ. may be admitted to classes but each case is considered separately. Grads. of the univs. of Oxford and Camb. may undertake their clin. trg. in the coll.

**COURSES.** Full course in the fac. of med. for MB BS, 5½ yrs. Postgrad. courses are run for DMR students and the final fellowship exam. of the Royal Coll. of Surgeons.

**LIBRARY AND MUSEUM.** Approx. 23,000 vols. in 2 libraries (one in pre-clin. sch., the other in clin. sch.) which contain all the standard works on med., surg. and the allied scis., med. and other scientific periodicals, with a valuable collection of works on religion, hist. and general lit. The museum contains a complete series of pathol. specimens in addition to extensive series of casts and drawings and large collections of specimens illustrating general and compar. anat., physiol., zool. and morphol.

**ADMISSION.** See p. 965 and Appendix II.

**FEES.** Annual tuition fee, £65. Union sub. (compulsory) : 7 gs. p.a.

**STUDENT RESIDENCE.** Residence in College Hall (accomm. for 80 men and 20 women) is restricted to internal students of the coll. who are undertaking their clin. studies.

**SCHOLARSHIPS.** Total annual sum of the value of over £2000 available for scholps.; entrance scholps. in arts and sci., value £40 p.a. for 5 yrs.; Jeaffreson exhibition, value £40 p.a. for 3 yrs.; 4 scholps. for res. (in med., surg. and pathol.) are open to grads. of any univ. studying at St. Bartholomew's Hosp. See also p. 825.

**STUDENTS' HEALTH SERVICE.** There is a whole-time med. officer. Incl. in the service are the various protective measures against infectious dis.

**STUDENTS' UNION.** All full-time students become life members of the students' union on payment of the appropriate fee. Full-time students are eligible to join all clubs and each student receives a free copy of the *Journal* monthly.

**PUBLICATION.** *Handbook* (annual).

## THE YEAR 1959

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	508	52
Women . . .	120	2
Total . . .	628	54

Included in the figures above are :—

Postgraduate students, 79 (25 full-time).

New admissions, 106.

Students from other countries, 64. (Countries from which largest numbers came : Hungary, 9; S. Africa, 6).

**DEGREES** (1958-59). MB BS Lond., 32; MB BChir Camb., 26; BM BCh Oxon., 10.

**OTHER QUALIFICATIONS** (1958-59). MRCS, LRCP, 9; LMSSA, 2.

[Information compiled as at 18/8/60]

## ST. GEORGE'S HOSPITAL MEDICAL SCHOOL

Founded 1752

Postal Address : Hyde Park Corner, London, S.W.1, England

Telephone : Belgravia 1716

CHAIRMAN OF THE MEDICAL SCHOOL COUNCIL—The Rt. Hon. Sir GERALD UPJOHN, CBE, MA Camb.

DEAN—M. I. A. HUNTER, MD *Camb.*, FRCPVICE-DEAN—A. H. CHARLES, TD, MB BChir *Camb.*, FRCS, FRCOG

HON. LIBRARIAN—G. EDWARDS, FFARCS

SECRETARY—C. R. CUTHBERT

## APPOINTED AND RECOGNIZED TEACHERS

**Anæsthetics**

Edwards, G., FFARCS	Sr. Lectr.
Johnson, E. F., MB BS, FFARCS	Sr. Lectr.
Landau, E., FFARCS	Sr. Lectr.
Headley, S. R. T., MB BS, FFARCS	Sr. Lectr.

**Bacteriology**

Elek, S. D., PhD MD DSc DCP DPH	Prof.
Hilson, G. R. F., MD BS	Reader
Stern, H., PhD MB ChB <i>Glas.</i>	Lectr.

**Cardiology**

Hunter, M. I. A., MD <i>Camb.</i> , FRCP	Sr. Lectr.
Leatham, A. G., MB BChir <i>Camb.</i> , FRCP	Sr. Lectr.

**Chemical Pathology**

Martin, N. H., BSc <i>Durh.</i> , MA BM BCh <i>Oxon.</i> , FRIC	Prof.
Cameron, C. B., MD <i>N.Z.</i>	Sr. Lectr.
Perkins, D. J., MSc PhD, FRIC	Sr. Lectr.

**Dental Surgery**

Fickling, B. W., FRCS, FDSRCS	Sr. Lectr.
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**Dermatology**

Gordon, H. W., MC, BA MB BChir <i>Camb.</i> , FRCP	Sr. Lectr.
Gold, S. C., MD <i>Camb.</i>	Sr. Lectr.

**Forensic Medicine**

Teare, R. D., MD <i>Camb.</i> , MRCP	Sr. Lectr.
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**Genito-Urinary Surgery**

Nicholls, M. F., CBE, MA MChir <i>Camb.</i> , FRCS	Sr. Lectr.
Anderson, H. F., MB BChir <i>Camb.</i> , FRCS	Sr. Lectr.

**Hæmatology**

Stafford, J. L., MB <i>Birm.</i>	Sr. Lectr.
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**Infectious Diseases**

McEntee, J. C., MA MD <i>Dub.</i> , MRCP	Sr. Lectr.
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**Medicine**

Dornhorst, A. C., MD, FRCP	Prof.
Dow, J. F., BA MB BChir <i>Camb.</i> , FRCP	Sr. Lectr.
Hunter, M. I. A., MD <i>Camb.</i> , FRCP	Sr. Lectr.
Leatham, A. G., MB BChir <i>Camb.</i> , FRCP	Sr. Lectr.

2 M 2

Robson, K., MA MD <i>Camb.</i> , FRCP	Sr. Lectr.
Nassim, J. R., MA BM <i>Oxon.</i> , FRCP	Sr. Lectr.

**Mental Diseases (Psychiatry)**

Curran, D., MB BChir <i>Camb.</i> , DPM, FRCP	Sr. Lectr.
Mallinson, Sir Paul, MA BM BCh <i>Oxon.</i>	Sr. Lectr.
Miller, E., MA DPM <i>Camb.</i> , FRCP	Sr. Lectr.
Partridge, M., MA DM BCh <i>Oxon.</i> , DPM, MRCP	Sr. Lectr.

**Neurology**

Williams, D. J., CBE, DSc MD <i>Manc.</i> , FRCP	Sr. Lectr.
Paterson, J. H., MD BS, FRCP	Sr. Lectr.

**Neuro-Surgery**

McKissock, W., OBE, MB MS, FRCS	Sr. Lectr.
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**Obstetrics and Gynæcology**

Gwillim, C. M., MD DPH, FRCP, FRCS, FRCOG	Sr. Lectr.
Charles, A. H., TD, MA MB BChir <i>Camb.</i> , FRCS, FRCOG	Sr. Lectr.

**Ophthalmology**

Duke-Elder, Sir Stewart, KCVO, MA MD DSc <i>St. And.</i> , PhD, FRCS, FRS	Sr. Lectr.
Bridgeman, Hon. G. J. O., MB BChir <i>Camb.</i> , FRCS	Sr. Lectr.
Miller, S. J. H., MD <i>Aberd.</i> , FRCS	Sr. Lectr.

**Orthopædics**

Burns, B. H., MB BChir <i>Camb.</i> , FRCS	Sr. Lectr.
Young, R. H., MB BChir <i>Camb.</i> , FRCS	Sr. Lectr.

**Oto-Rhino-Laryngology**

Peacock, J. R., MB BChir <i>Camb.</i> , FRCS	Sr. Lectr.
Pereira, A. L., MB BS, FRCS	Sr. Lectr.

**Pædiatrics**

Pinckney, C. P., MA MB BChir <i>Camb.</i> , FRCP	Sr. Lectr.
Kesson, C. W., MD BS	Sr. Lectr.

**Pathology**

Crawford, T., BSc MD <i>Glas.</i> , FRFPGlas	Prof.
Dexter, D., MD <i>Sheff.</i>	Reader

**Physical Medicine**Shields, D. C., BM BCh *Oxon.*

Sr. Lectr.

**Radiotherapy**Richmond, J. J., MB BS *Metb.*, DMRT,  
FRCS

Sr. Lectr.

**Plastic Surgery**Blake, H. E., MA MB BChir *Camb.*,  
FRCS

Sr. Lectr.

**Surgery**Marnham, Sir Ralph, KCVO, MA  
MChir *Camb.*, FRCS

Sr. Lectr.

**Proctology**Marnham, Sir Ralph, KCVO, MA  
MChir *Camb.*, FRCS

Sr. Lectr.

Nicholls, M. F., CBE, MA MChir *Camb.*,  
FRCS

Sr. Lectr.

Riddell, V. H., MA MD *Camb.*, FRCS

Sr. Lectr.

**Radiology**Allen, E. H., DMRE *Camb.*

Sr. Lectr.

Siddons, A. H. M., BA MChir *Camb.*,  
FRCS

Sr. Lectr.

Bull, J. W. D., MA MD *Camb.*, DMR,  
FRCP, FFR

Sr. Lectr.

Smith, E. R., MS, FRCS

Sr. Lectr.

Anderson, H. F., MB BChir *Camb.*,  
FRCS

Sr. Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Dean's Sec. : Maureen Rattue. Accountant : W. H. Martin.

Asst. Librarian : Major L. Carr, MBE.

**GENERAL INFORMATION**

St. George's Hosp. was opened in 1734 and the physicians and surgeons were permitted to have a limited number of pupils from its inception. The sch. has been unchanged since 1868 until the present rebuilding scheme was begun. Since 1906 the teaching in the sch. has been devoted entirely to the clin. subjects, although recently univ. units in med. and surg. have been set up and a prof. has been apptd. to a chair of med. By arrangement, students entering for the full course do the pre-clin. work at King's Coll., London, but clin. students are also accepted from the univs. of Cambridge and Oxford. The numbers entering are deliberately kept small, and, in spite of recent increases, it has been possible to maintain the old tradition of individual teaching.

**LIBRARY, MUSEUM, ETC.** The sch. library (5848 vols.) contains text-books and journals dealing

with all branches of clin. study. The pathol. dept. contains labs. of morbid anat., bacteriol., hæmatol. and chem. pathol.

**ADMISSION.** See p. 965 and Appendix II.

**FEES.** Annual composition fee (incl. union membership), £67 : 7s.

**SCHOLARSHIPS.** Six entrance scholps. of the total value of £800 are offered for competition annually. The subjects of exam. are either anat. and physiol. or pathol. Prizes of the total value of £260 are also offered for competition each year.

**RESEARCH.** Qualified students wishing to undertake res. are encouraged to do so. Small annual grants from endowments are available for the purpose.

**PUBLICATIONS.** *Prospectus* ; *Gazette*.

**THE YEAR 1959**

**MAJOR BUILDING DEVELOPMENTS.** Modernization plan completed. *Bldgs. completed* : new library.

**RETIREMENTS.** H. Gainsborough (med.) ; H. Kirwan-Taylor (obstet. & gynæcol.).

*Included in the figures above are :—*

Postgraduate students, 25 m.

New admissions, 39 (35 m., 4 w.).

Students from other countries, 18. (Country from which largest number came : Nigeria, 4).

**Statistics**

**STUDENT NUMBERS, 1958-59**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	114	25
Women . .	13	—
<b>Total</b>	<b>127</b>	<b>25</b>

**DEGREES (1957-58).** MB BS Lond., 30 ; MB BChir *Camb.*, 12 ; BM BCh *Oxon.*, 1.

**DIPLOMAS, ETC. (1957-58).** MRCS, LRCP, 24 ; LMSSA, 2 ; FRCS, 2 ; DCH, DPM, 2 ; DA, 3 ; MRCP, 1.

[Information compiled as at 18/8/60]

## ST. MARY'S HOSPITAL MEDICAL SCHOOL

Founded 1854

Postal Address : Norfolk Place, Paddington, London, W.2, England

Cables and Telegrams : St. Mary's Hospital Medical School, London, W.2

Telephone : Paddington 3612

PRESIDENT—THE EARL OF VERULAM, MA Oxon.

Dean—G. B. MITCHELL-HEGGS, OBE, TD, MD, FRCP

SECRETARY—J. E. STEVENSON, LLB

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

## Anæsthetics

Morris, L. H., BA, FFARCS †(C)\*  
 Lloyd Owen, M. W., TD, MB BChir Camb. †(C)  
 Thornton, H. L., FFARCS †(C)

## Anatomy

Goldby, F., MA MD Camb. Prof.  
 Bellairs, A. d'A., MA MSc Reader  
 Breathnach, A. S., MSc MB BCh  
 BAO N.U.I. Sr. Lectr.  
 Gamble, H. J. Lectr.

## Bacteriology

Williams, R. E. O., BSc MD, MRCP Prof.  
 Hughes, W. H., MD Reader  
 Himmelweit, H., MD Berl., PhD Lectr.

## Biochemistry

Williams, R. T., DSc Birm., PhD Wales Prof.  
 Park, D. V., BSc PhD, FRIC Sr. Lectr.  
 Smith, J. N., BSc PhD, FRIC Lectr.  
 Robinson, D., BSc PhD, FRIC Lectr.

## Biology

Foster, C. L., MSc PhD Reader  
 Fisk, A., MSc Lectr.  
 Cameron, E., PhD DSc Lectr.

## Dental Surgery

May, A. J. †(C)

## Dermatology

Mitchell-Heggs, G. B., OBE, TD, MD, FRCP †(C)  
 Feiwei, M., MB BChir Camb., MRCP †(C)

## Immunology

Porter, R. R., BSc PhD Prof.

## Medicine

Hunt, T. C., BA DM Oxon., FRCP †(C)  
 Brooks, W. D. W., MA DM Oxon., FRCP †(C)  
 Litchfield, J. W., BA BM BCh Oxon., FRCP †(C)  
 Kemp, T. A., MA MD BChir Camb., FRCP †(C)  
 Young, C. A., MD, FRCP †(C)  
 Peart, W. S., MD, FRCP Prof.  
 Ackroyd, J. F., DSc MB ChB Brist. Sr. Lectr.  
 Sanderson, P. H., BA MB Camb. Sr. Lectr.

## Mental Diseases

Pearce, J. D. W., MA MD Edin., FRCPEd †(C)

## Metabolic Unit

Wynn, V., MD Melb. Reader

## Neurology

Brinton, D. H., DM Oxon., FRCP †(C)  
 Edwards, C. H., FRCP †(C)

## Obstetrics and Gynæcology

MacLeod, D. H., MB MS, FRCP, FRCS, FRCOG †(C)

## Ophthalmology

Cross, A. G., MA MD Camb., FRCS †(C)  
 Leigh, A. G., MD Liv., FRCS †(C)

## Orthopædics

Adams, J. C., MD, FRCS †(C)  
 Bonney, G. L. W., MS †(C)

## Oto-Rhino-Laryngology

Simpson, J. F., FRCS †(C)  
 Robin, I. G., MA MB BChir Camb., FRCS †(C)

\* (C) = Clinical Teacher

**Pædiatrics**

Lightwood, R. C., MD, FRCP

†Dir.

Creese, R., MB BS PhD

Holton, Mrs. P., BA *Camb.*, DPhil *Oxon.*

Reade

Nixon, D. A., MSc PhD

Sr. Lectr

Lectr

**Pathology and Morbid Anatomy**

Pryce, D. M., MD

Prof.

Wright, E. A., MD

Reader

Neumark, E., MD

Lectr.

**Radiology (Diagnostic)**Williams, E. R., DMRE *Camb.*, MD,

FRCP, FFR

Sutton, D., MD *Manc.*

†Dir

Asst. Di

**Pathology, Chemical**

Neuberger, A., MD PhD, FRS

Prof.

Kawerau, E., MB BCh MSc *Dub.*, FRIC

Sr. Lectr.

Scott, J. J., MA *Camb.*, PhD *Lond.*

Sr. Lectr.

**Radiotherapy**Hulbert, M. H. E., DMRE *Camb.*, MB BS**Surgery**Irvine, W. T., BSc MD ChM *Glas.*,

FRCSed, FRCS

Prof

Wright, A. D., MB MS DTM&amp;H, FRCS

†(C)

Porritt, Sir A. E., KCMG, KCVO, CBE,

MA BM MCh *Oxon.*, FRCS

†(C)

Eastcott, H. H. G., MS *Lond.*, FRCS

†(C)

**Pharmacology**Stewart, H. C., MD *Camb.*, PhD

Reader

Nasmyth, P. A., BPharm *Wales*, PhD

Lectr.

Andrews, W. H. H., MA DM *Oxon.*,DTM&H *Liv.*

Lectr.

**Physics**Rowlands, S., PhD *Liv.*

Reader

**Thoracic Surgery**Bromley, L. L., MA MChir *Camb.*, FRCS

†(C)

**Physiology**

Huggett, A. St. G. J. McC., DSc PhD MB

BS, FRS

Prof.

**Venereal Diseases**

Jefferiss, F. J. G.

†(C)

Willcox, R. R., MD BS

†(C)

**ADMINISTRATIVE AND OTHER STAFF**

Accountant : E. J. Morris, FCA. Asst. Secretary : Mary D. Scott, MBE. Librarian : Miss W. M. Gallagher, BA, FLA. Student Health

Service Physicians : T. A. Kemp, MA MD BCh *Camb.*, FRCP ; H. D. Cockburn, MC.

**GENERAL INFORMATION**

Founded 1854. A sch. of the univ. in the fac. of med. and incorporated under the National Health Service Act, 1946.

**LIBRARY.** Over 5000 text-books and bound journals.

**WRIGHT-FLEMING INSTITUTE OF MICROBIOLOGY** consists of depts. of bacteriol. and immunol., and units dealing with virol., allergy and other specialized fields ; it also houses a Medical Res. Council unit of hæmatol.

**ADMISSION.** See p. 965 and Appendix II.

**COURSE OF STUDY.** Entry is restricted to students reading for univ. degrees, though students may take the conjoint exams. in addn. if they wish. The med. sch. provides complete courses of study for the med. exams. of the univ. Students from other univs. who have completed their exams. in anat. and physiol. are admitted to complete the clin. part of the course leading to a degree of their own univ.

**CLINICAL UNITS.** There are clin. units in med. surg. and pædiatrics, the personnel of which wholly devote themselves to teaching and res. and assist students wishing to carry out original work

**STUDY LEAVE.** Applicants for study leave are considered individually.

**FEES.** Annual composition fee (incl. union membership), £69.

**SCHOLARSHIPS.** Entrance, 1 of £100, 5 of £40 p.a. for 5 or 6 yrs. ; univ., for clin. students, 1 of £100, 2 of £50 and 1 of £40 p.a. for 3 yrs. All these scholps. are eligible for supplementation by the Ministry of Educn. (applicn. to be made in Jan.). Res. fellowships and many other prizes and scholps. are available. For postgrad. awards see p. 825.

**PUBLICATIONS.** *Prospectus* (annual) ; *St. Mary's Hosp. Gazette* ; *History of St. Mary's Hosp. Med School*, by Sir Zachary Cope (Heinemann London, 1954).

**THE YEAR 1959**

**PRINCIPAL BENEFACTION.** Wellcome Trust, £10,000.

**RETIREMENT.** G. L. M. McElligott (venerea dis.).

**Statistics**

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	353	2
Women . . .	100	—
<b>Total . . .</b>	<b>453</b>	<b>2</b>

Distribution by Faculties. *Med.*, 434 ; *sci.*, 19.  
Total : 453.

*Included in the figures above are :—*

Postgraduate students, 38.

New admissions, 85.

Students from other countries, 35. (Countries from which largest numbers came : Nigeria, 8 ; Ceylon, 4).

**DEGREES AWARDED (1958-59).** MB BS Lond., 59 ; MD Lond., 3 ; MB BChir Camb., 11 ; BM BCh Oxon., 3.

**DIPLOMAS, ETC. (1958-59).** MRCS, LRCP, 37 ; LMSSA, 10 ; MRCP, 7 ; DRCOG, 9 ; DA, 4 ; DPH, 1 ; DMR(Diag), 4 ; DPhysMed, 1.

[Information compiled as at 12/8/60]

**ST. THOMAS'S HOSPITAL MEDICAL SCHOOL**

Founded in the 13th century

*Postal Address* : Albert Embankment, London, S.E.1, England

*Cables and Telegrams* : St. Thomas's Hospital Medical School, London, S.E.1

*Telephone* : Waterloo 5656, exts. 23 and 356

DEAN—R. W. NEVIN, TD, MA MB BChir Camb., FRCS

SUB-DEAN—Professor D. V. DAVIES, MA Camb., MB BS

MEDICAL SECRETARY—A. L. CROCKFORD, CBE, DSO, MC, TD, MA MB BChir Camb.

**APPOINTED AND RECOGNIZED TEACHERS**

[† = Part-Time]

**Anæsthetics**

Bourne, J. G., MA MD Camb., FFARCS

Wylie, W. D., MA MB BChir Camb.,  
FFARCS

Nosworthy, M. D., MA MD Camb.,  
FFARCS

**Anatomy**

Davies, D. V., MA Camb., MB BS Prof.

Barnett, C. H., MB BChir Camb., FRCS Reader

Hewitt, W., MB BS Lectr.

**Bacteriology**

Hare, R., MD Prof.

**Biochemistry**

Young, Leslie, DSc PhD, FRIC Prof.

Thorn, M. B., PhD BSc Lectr.

**Biology**

Hamilton, A. G., BAggr DSc Belf., PhD Sr. Lectr.

Digby, P. S. B., BA Lectr.

**Cardiology**

Jones, E., MD, FRCP

Daley, R., MD Camb., FRCP

**Children's Diseases**

Wilson, B. D., R., MB BS, FRCP

**Dental Surgery**

Hovell, J. H., FDSRCS

**Dermatology**

Wallace, H. J., MA MD Camb., FRCP

**Medicine**

Goadby, H. K., MA MD Camb., FRCP

Jones, E., MD, FRCP

Richardson, Sir John S., MVO, MA MD Camb.,  
FRCP

Harman, J. B., MA MD Camb., FRCP,  
FRCS

Anderson, H. J., MB BChir Camb., FRCP

**Sharpey-Schafer, E. P., MB BChir Camb.,  
FRCP**

**Physics**

**Cochrane, W., MA BSc PhD Glas.** Sr. Lectr  
**Nightingale, A., MA PhD** †Lectr

**Neurology**

**Elkington, J. St. C., MA MD Camb., FRCP**  
**Kelly, R. E., MD, FRCP**

**Neuro-surgery**

**Jackson, H., FRCS**

**Obstetrics and Gynaecology**

**Wrigley, A. J., MD, FRCS, FRCOG**  
**Rickford, R. B. K., MD, FRCS, FRCOG**  
**Garland, G. W., MD, FRCOG**

**Ophthalmology**

**Ridley, N. H. L., MA MD Camb., FRCS**

**Orthopaedic Surgery**

**Furlong, R. J., MB BS, FRCS**

**Oto-Rhino-Laryngology**

**Mill, W. A., MS, FRCS**  
**Bateman, G. H., MA BM BCh Oxon., FRCS**

**Pathology**

**Curran, R. C., MD Glas.** Prof.  
**Spencer, H., MD PhD DTM&H, FRCS** Reader  
**John, R. W.** Sr. Lectr.

**Pathology, Chemical**

**Griffiths, W. J., BSc PhD** Prof.  
**Prunty, F. T. G., MA MD Camb., FRCP** Prof.  
**McSwiney, R. R., MB BS** Sr. Lectr.

**Pathology, Clinical**

**Pinniger, J. L., MA DM Oxon., FRCP** Sr. Lectr., Dir.  
**Wetherley-Mein, G., MB BChir Camb.,** Sr. Lectr., Asst. Dir.  
**Hutt, M. S. R., MD, MRCP** Sr. Lectr.

**Pharmacology and Therapeutics**

**Stacey, R. S., MA MD Camb.** Prof.

**Physiology**

**Barcroft, H., MA MD Camb., FRCP, FRS** Prof.  
**Vass, C. C. N., MSc PhD MB ChB Leeds**

**Young, I. Maureen, MSc PhD** Reader  
**Res. Sr. Lectr**

**Plastic Surgery**

**Battle, R. J. V., MBE, MA MChir Camb.**  
**FRCS**

**Psychiatry**

**Sargent, W. W., MA MB BChir Camb.,**  
**FRCP**

**Radiodiagnosis**

**McLaren, J. W., DMRE Camb., MA, FFR,**  
**MRCP**

**Radiotherapy**

**Fleming, J. A. C., MB ChB DR Edin.,**  
**FRCSed, FFR**

**Surgery**

**Robinson, R. H. O. B., MA MB BChir Camb.,**  
**FRCS**  
**Barrett, N. R., MA MChir Camb., FRCS**  
**Mimpriss, T. W., MB MS, FRCS**  
**Nevin, R. W., TD, MA MB BChir Camb.,** Dean  
**FRCS** Prof.  
**Kinmonth, J. B., MS, FRCS**  
**Pullan, J. M., MChir Camb., FRCS**  
**Cockett, F. B., MS, FRCS** †Sr. Lectr.

**Thoracic Disease**

**Barrett, N. R., MA MChir Camb., FRCS**  
**Anderson, H. J., MB BChir Camb., FRCP**  
**Harrison, G. K., MA Camb., MD Tor., FRCS**

**Venereal Diseases**

**Nicol, C. S., MD, MRCP**

## ADMINISTRATIVE AND OTHER STAFF

Librarian : F. A. Tubbs.

## GENERAL INFORMATION

The sch. was founded in the 13th cent. and is now an incorporated sch. of the Univ. of London. The governing body of the sch. is the sch. council and there is also an advisory academic bd. The

pre-med. and pre-clin. depts. are well equipped, and there are full professorial units in med. and surg. The hosp. has over 700 beds available for teaching.

St. Thomas's Hosp. and Med. Sch. occupy an extensive site on the south bank of the river Thames, opposite the Houses of Parliament.

**LIBRARY.** Nearly 19,000 med. books and pamphlets. There is an extensive pathol. MUSEUM.

**ADMISSION.** Students entering the pre-med. period must have fulfilled the univ. entrance regns. (see p. 965 and Appx. II) and those entering pre-clin. period must have passed 1st MB exam. or achieved exemption from it.

**COURSES.** Full instructn. for the whole course for MB BS Lond. (5½ yrs.). Students for this degree join the pre-med. or pre-clin. periods in Oct., but those from Oxford or Camb., who wish to do their clin. work in London for their own univ. degrees, may join in April or Oct. A final FRCS course is held twice a yr., starting in March and Sept. and lasting 8 weeks. Women students are accepted up to 15 per cent. of the annual entry.

**FEES.** Tuition, £60 p.a.; club sub., 6 gs. p.a.

**SCHOLARSHIPS.** Entrance scholps. into the pre-clin. period include 2 open scholps. in nat. sci., value £60 and £40 p.a. for 5 yrs., and 2 Home Counties scholps. in nat. sci., value £50 and £40 p.a. for 5 yrs. For entry into the clin. period

there are 2 univ. scholps., value £50 and £40 for 3 yrs. There are many internal scholps. and prizes open for award. Res. facilities and scholps. are available for postgrads.; 2 scholps. may be awarded annually to enable selected students to take a BSc hon. degree in physiol. or anat. before proceeding to clin. period. For postgrad. awards, see p. 825.

**STUDENTS' HOSTEL.** St. Thomas's House, Lambeth Palace Rd., London, S.E.1 (tel.: Waterloo 4625). At present there are 34 single rooms available for men only; room and breakfast, £3 per week.

**STUDENT HEALTH SERVICE.** Every student on joining the med. sch. is given a thorough med. exam. and a check is kept on students' health throughout their trg. Weekly clinics are also held for students who wish to have med. advice.

**STUDY LEAVE.** There is no regular practice for study leave for the staff.

**PUBLICATIONS.** *Prospectus* (annual); *St. Thomas's Hosp. Gazette* (6 times a yr.); *The History of St. Thomas's Hosp.*, by F. G. Parsons, 3 vols., Methuen, 1932 (o.p.); *The Story of St. Thomas's 1106-1947*, by Charles Graves, Faber & Faber, 1947, 8s. 6d.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* extension to students' club.

**RESIGNATIONS.** Dr. A. Herxheimer (pharmacol.), apptd. lectr. in pharmacol., London Hosp. Med. Coll.; Dr. B. E. Clayton (res. fell. chem. pathol.), apptd. consultant in chem. pathol., Hosp. for Sick Children, Gt. Ormond St.; Dr. G. G. Meynell (bacteriol.), apptd. dir. of microbiol. res. unit, Lister Inst.; Dr. J. D. Martin (obstet. & gynæcol.), apptd. dep. dir., prof. unit of obstet. & gynæcol., Univ. Coll. Hosp.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . .	322	22
Women . .	66	2
Total	388	24

Distribution by Faculties. *Med.*, 405; *sci.*, 7. Total: 412.

*Included in the figures above are:—*

Postgraduate students, 24.

New admissions, 87 (full-time).

Students from other countries, 28. (Countries from which largest numbers came: Ghana, 4; S. Rhodesia, 3; Kenya, 3; Malaya, 2).

**DEGREES (1958-59).** BSc spec. (hons. physiol.), 1; BSc spec. (hons. anat.), 1; MB BS Lond., 40; MD Lond., 1; PhD Lond., 1; MB BChir Camb., 25; MD Camb., 1; MChir Camb., 2; BM BCh Oxon., 6; DM Oxon., 1. Total number of first degrees awarded, 73.

**DIPLOMAS, ETC. (1958-59).** LRCP, MRCS, 18; LMSSA, 2; MRCP, 15; FRCP, 3; FRCS, 33; FFARCS, 1; MRCOG, 1; DOBstRCOG, 27; DCH, 1; DTM&H, 1; DPhysMed, 1; DA, 7; DO, 1; DPM, 3; DMRD, 1; DCH, 3.

\* All postgrad. students attending autumn FRCS course; there is a similar course in the spring



[Information compiled as at 18/8/60]

# UNIVERSITY COLLEGE HOSPITAL MEDICAL SCHOOL

Founded 1828

Postal Address : University Street, London, W.C.1, England

Cables and Telegrams : University College Hospital Medical School,  
University Street, London, W.C.1

Telephone : Euston 5861

CHAIRMAN OF THE SCHOOL COUNCIL—Sir CHARLES HARINGTON, PhD *Edin.*, MA ScD *Camb.*, FRSDEAN—C. W. FLEMMING, OBE, DM MCh *Oxon.*, FRCS

VICE-DEAN—B. J. HARRIES, FRCS

SECRETARY—Major-General H. L. BIRKS, CB, DSO

## APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

### Anæsthetics

Cope, R. W., FFARCS †Lectr.

Dawkins, C. J. Massey, MA MD *Camb.*,  
FFARCS †Lectr.

Lucas, B. G. B., FFARCS (†)

### Bacteriology

Belyavin, G., MB BS Prof.

Stokes, Elizabeth J., MB BS, FRCP Lectr.

### Dermatology

Hare, P. J., MD, MRCP †Lectr.

Jarrett, A., MB ChB *Birm.*, MRCPEd Reader

### Endocrinology

Swyer, G. I. M., MA DPhil DM *Oxon.*,  
MD *Calif.*, MRCP (†)

### Forensic Medicine

Purchase, Sir Bentley, MC, CBE, MA  
MB *Camb.*, DPH Lectr.

### Geriatrics

Amulree, Rt. Hon. Lord, MA MD *Camb.*,  
FRCP (†)

### Medicine

Dent, C. E., MD PhD, FRCP

(Human Metabolism) Prof.

Harris, K. E., MA MD, FRCP †Lectr.

Hawksley, J. C., CBE, MD PhD, FRCP †Lectr.

Pochin, E. E., CBE, MA MD, FRCP Lectr.

Pranker, T. A. J., MD, MRCP Lectr.

Pritchard, E. A. B., MD *Camb.*, FRCP †Lectr.

Rosenheim, M. L., CBE, MA MD, FRCP Prof.

Rowlands, E. N., MD Lectr.

Stokes, J. F., MD, FRCP †Lectr.

### Mental Diseases

Pond, D. A., MA MD *Camb.*, MRCP †Lectr.Tredgold, R. F., MD *Camb.* †Lectr.

Soddy, K., MD †Lectr.

### Morbid Anatomy

Cameron, Sir Roy, MB BS DSc *Melb.*,  
LLD *Edin.*, FRCP, FRS Prof.Smith, J. F., MB BChir *Camb.*, MRCP ReaderJarrett, A., MB ChB *Birm.*, MRCPEd  
(Dermatol. Histol.) Reader

### Neurology

Goody, W. W., MD, FRCP †Lectr.

### Obstetrics and Gynæcology

Flew, J. D. S., MD, FRCOG †Lectr.

Nixon, W. C. W., MD, FRCS, FRCOG Prof.

White, N. L., FRCS, FRCOG †Lectr.

### Ophthalmology

Shapland, C. D., MB BS, FRCS †Lectr.

Greaves, D. P., BSc MB ChB *Sheff.*, FRCS  
†Lectr.

### Oto-Rhino-Laryngology

Formby, M. L., FRCS †Lectr.

Milling, P. F., FRCS †Lectr.

Wadge, Joan, BS, FRCS †Lectr.

### Pædiatrics

Schlesinger, B. E., OBE, MA  
MD *Camb.*, FRCP †Lectr.Bonham Carter, R. E., MA MB  
BChir *Camb.*, FRCP †Lectr.

<b>Pathology, Chemical</b>		<b>Radiotherapy</b>	
Rimington, C., PhD DSc, FRS	Prof.	Hilton, Mrs. Gwen, CBE, DMRE <i>Camb.</i> , BSc MB BS, FRCS, FFR	†Lectr.
<b>Pathology, Clinical</b>		<b>Surgery</b>	
Maizels, M., MD, FRCP	Prof.	Davies, D. R., FRCS	†Lectr.
Graves, Eva M.	Lectr.	Flemming, C. W., OBE, MCh <i>Oxon.</i> , FRCS	†Lectr.
Flynn, F. V., MD	Lectr.	Gardham, A. J., MS, FRCS	†Lectr.
<b>Pharmacology</b>		Harries, B. J., FRCS	†Lectr.
Laurence, D. R., MD, MRCP	(P. & Therap.) Reader	Matthews, D. N., OBE, MD MChir <i>Camb.</i> , FRCS	†Lectr.
<b>Pharmacy</b>		Nightingale, Doreen, MS, FRCS	†Lectr.
Whittet, T. D., PhD BSc	†Lectr.	Pilcher, R. S., MS, FRCS	Prof.
<b>Physical Medicine</b>		Wolfe, H. R. I., MS, FRCS	†Lectr.
Burt, H. A., MA MB BChir <i>Camb.</i> , FRCP	†Lectr.	Bunton, G. L., MChir <i>Camb.</i> , FRCS	†Lectr.
<b>Radiology</b>		<b>Venereal Diseases</b>	
Hodson, C. J., DMRE <i>Camb.</i> , MB BS, FRCP, FFR	†Lectr.	Thomas, E. G., OBE, MD	†Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Secretary : G. C. Woodward. Accountant : A. Morriss.

## GENERAL INFORMATION

The history of University Coll. Hosp. Med. Sch. is closely bound up with the history of University Coll. From the time of the opening of the coll. in Oct. 1828, until its incorporation in the Univ. of London in 1907, the fac. of med. was governed by the corporation and council of Univ. Coll. Following the National Health Service Act, 1946, the sch. became a body corporate.

The present med. sch. bldgs. were erected in 1907 as the result of funds subscribed by Sir Donald Currie, and the sch. was admitted as a sch. of the univ. in the fac. of med. on Jan. 1, 1907.

The prelim. and inter-med. studies are held at Univ. Coll.

**LIBRARY AND MUSEUM.** The general library contains about 30,000 books, incl. text-books, books of reference and sets of med. periodicals. The Graham library is a separate collection of books and periodicals, and contains complete sets of British, American, French and German journals of interest to the workers in many branches of med. The Radcliffe Crocker library, which consists of a collection of dermatol. vols., is housed in the Royal Soc. of Medicine library, 1 Wimpole St., London, W.1. The museum of pathol. anat. (curator : W. R. Merrington) contains a collection

of med., surg., obstet. and gynæcol. specimens. Microscopic sections of most of the specimens are available for the use of students.

**ADMISSION.** See p. 965 and Appendix II.

**FEES.** For the complete clin. course (Univ. of London), £216 : annual composition fee (incl. union membership), £72 ; students from Oxford or Cambridge, £225 (annually, £75).

**SCHOLARSHIPS.** One Goldsmid entrance scholp. entitling the holder to the final course of med. study ; 1 Goldsmid entrance exhibition entitling the holder to a reduction by £126 of the fees due for the full course of final med. study ; one Filliter entrance scholp. in pathol., entitling the holder to a reduction of £123 of the fees for the full course of final med. study. In addn., scholps. and prizes are available to the approx. annual value of £3000.

**POSTGRADUATE AWARDS** open to grads. of other univs. : see p. 825.

**RESIDENCE.** Adjoining the med. sch. is a specially equipped hostel solely for students in the sch.

**PUBLICATION.** *Prospectus* (annual).

## THE YEAR 1959

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	204	49
Women . . .	43	11
Total . . .	247	60

Included in the figures above are :—

New admissions, 64 (53 m., 11 w.).

Students from other countries, 17. (Country from which largest number came : India, 4).

DEGREES (1958-59). MB BS Lond., 64 ; MD Lond., 1 ; MS Lond., 1 ; MB BChir Camb., 21 ; BM BCh Oxon., 9.

DIPLOMAS, ETC. (1958-59). MRCS, LRCP, 20 ; MRCP, 10 ; FRCS, 9 ; DRCOG, 27.

## UNIVERSITY COLLEGE HOSPITAL DENTAL SCHOOL

DIRECTOR OF DENTAL DEPARTMENT—Professor A. S. PROPHET, DDS *Manc.*, DipBact, FDSRCS (Dent. Surg.)

## APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

## Anæsthetics

Hudson, M. W. P., MB BS

†Lectr.

## Anatomy

Young, J. Z., MA *Oxon.*, DSc *Brist.*, FRS Prof.

## Bacteriology

Belyavin, G., MB BS

Prof.

## Dental Materials

Thorp, H. W., BSc

(†)

## Dental Surgery

Balderston, W. B., LDS *Glas.*

†Lectr.

Green, C. de V., DDS *Tor.*, FDSRCS

†Lectr.

Prophet, A. S., DDS *Manc.*, FDSRCS

Prof.

Schofield, J., FDSRCS

†Lectr.

## Human Metabolism

Dent, C. E., BSc PhD MD, FRCP

Prof.

## Jurisprudence

Purchase, Sir Bentley, MC, CBE,  
MA MB *Camb.*, DPH

†Lectr.

## Medicine

Stokes, J. F., MD, FRCP

†Lectr.

## Orthodontics

Grossmann, W., MD *Prague*

†Lectr.

## Pathology

Cameron, Sir Roy, MB BS *Melb.*, DSc,  
FRCP, FRS

Prof.

## Pharmacology

Whittet, T. D., PhD BSc

(†)

## Prosthetics

Everett, A. E.

Lectr.

## Surgery

Matthews, D. N., OBE, MD MChir *Camb.*,  
FRCS

†Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Asst. Secretary : G. C. Woodward. Accountant : A. Morris.

## GENERAL INFORMATION

The National Dental Hosp. was amalgamated with Univ. Coll. Hosp. in 1914, and the dent. sch. was recog. by the Univ. of London. The sch. carries out courses of study for the degree of BDS Lond., and is open equally to men and women.

Students are not eligible to commence until they have passed the 1st MB Lond.

FEES. Annual composition fee (incl. union membership), £73.

PUBLICATION. *Prospectus* (annual).

# THE YEAR 1959

## Statistics

### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . .	71	—
Women . .	25	—
Total .	96	—

Included in the figures above are :—  
Postgraduate students, nil.

New admissions, 30 (24 m., 6 w.).

Students (full-time) from other countries, 1.

DEGREES AWARDED (by Univ. of London)  
(1958-59). BDS, 15.

OTHER QUALIFICATIONS (1958-59). LDSRCS,  
14.

[Information compiled as at 18/8/60]

## WESTMINSTER MEDICAL SCHOOL

Founded 1834

Postal Address : Horseferry Rd., Westminster, London, S.W.1, England

Telephone : Victoria 6041-2

CHAIRMAN—H. P. R. HOARE

DEAN—R. I. S. BAYLISS, MD, FRCP

SUB-DEAN—J. B. WYMAN, MBE, FFARCS

SECRETARY—W. R. MOULE, MA *Camb.*

## APPOINTED AND RECOGNIZED TEACHERS

### Anæsthetics

Organe, G. S. W., MD *Camb.*, FFARCS  
Jarman, R., DSC, FDSRCS  
Wyman, J. B., MBE, FFARCS  
Scurr, C. F., MVO, MB BS, FFARCS  
Lewis, C. B.

### Bacteriology

Lacey, B. W., MD BSc

### Dental Surgery

Taylor, R. S., OBE, TD, FDSRCS  
Steadman, B. St. J., TD, BDS

### Dermatology

Franklin, J. L., MA BChir MD *Camb.*  
Samman, P. D., MA MD *Camb.*, MRCP

### Ear, Nose and Throat Surgery

Ashcroft, D. W., MB ChB N.Z., FRCS  
Foxen, E. H. M., FRCS

### Hæmatology

Humble, J. G., CVO

### Medicine

Lloyd, W. E., MD, FRCP  
Meadows, S. P., BSc MD, FRCP  
Gavey, C. J., MD, FRCP  
Hart, F. D., MD *Edin.*, FRCP  
Tonkin, R. D., MD  
Bayliss, R. I. S., MD, FRCP

### Reader

### Morbid Anatomy

Morgan, A. D., MA MD ChB *Aberd.* Reader

### Obstetrics and Gynæcology

Bell, A. C. H., MB BS, FRCS, FRCOG  
Evans, A. B., MB BChir *Camb.*, FRCS, FRCOG

### Ophthalmology

King, E. F., MB ChB *Brist.*, FRCS  
Trevor-Roper, P. D., MD *Camb.*, FRCS

### Orthopædics

Sr. Lectr. Harding, H. E., FRCS

**Pædiatrics**

Anderson, I. M., MD *Glas.*, FRCP  
 Levi, D., MS, FRCS

**Pathology, Chemical**

MacLagan, N. F., MD DSc, FRCP, FRIC Prof.  
 Wilkinson, J. H., BSc PhD, FRIC Reader

**Pathology, Clinical**

Pulvertaft, R. J. V., OBE, MD *Camb.*,  
 FRCP Prof.  
 Dawson, I. M. P., MD *Camb.*, MRCP Reader

**Psychiatry**

Garmany, G., MB ChB *Manc.*, FRCP

**Radiology**

Kerley, P. J., CVO, CBE, MD *N.U.I.*  
 DMRE *Camb.*, FRCP

**Surgery**

Lee, E. S., MS, FRCS  
 Macnab, G. H., MB ChB *Edin.*, FRCS  
 d'Abreu, F. A., ChM *Birm.*, FRCS  
 Abel, A. L., MS, FRCS  
 Raven, R. W., OBE, FRCS  
 James, K. L., MS, FRCS  
 Aylett, S. O., MBE, FRCS  
 Reidy, J. P., MB BChir *Camb.*, FRCS  
 Drew, C. E., MVO, MB BS, FRCS  
 Cox, R., MBE, FRCS

**ADMINISTRATIVE AND OTHER STAFF**

Chaplain: . . . . . Supervisor of Students'  
 Health Service: P. A. Emerson, MD *Camb.*,

MRCP. Manageress of Students' Hostel: Mrs.  
 Kathleen M. Cordes.

**GENERAL INFORMATION**

Westminster Hosp. was instituted in the year 1719, and incorporated by act of parliament in 1836. A med. sch. has existed in Westminster since 1834, but was not brought into formal connexion with the hosp. until 1849. The new and enlarged sch. was completed in May 1939 in order to meet the demands of the latest devels. in med. educn.

**CONSTITUTION.** Westminster Med. Sch. is a sch. of the Univ. of London. Its government is vested in the governing body of the sch. called the council.

**LIBRARY.** 5770 vols.; 79 current periodicals; 2000 bound vols. of periodicals.

**MUSEUM.** 4000 specimens, illustrating all branches of human pathol.

**TEACHING HOSPITALS.** Students receive their clin. trg. in the hosps. of the Westminster Hosp. teaching group, which consists of Westminster H., the Westminster Children's H., the Gordon H. and All Saints' H.

**ADMISSION.** See p. 965 and Appendix II.

**COURSES.** The sch. is devoted entirely to the clin. subjects; students taking the full London Univ. degree course do their pre-clin. work at King's Coll., London. Students are also admitted at the clin. stage for the degree courses of Oxford, Cambridge and other univs.

**FEES.** Registration fee, 5 gs.; annual tuition fee (incl. membership of students' union), £66.

**SCHOLARSHIPS.** Four scholps., each of the value of £40 p.a. for 3 yrs., are awarded on the result of an exam. held in May of each yr. in 1st yr. subjects. 4 scholps. of similar value are also

awarded annually as the result of exams. in anat and physiol. held in April and Sept. The winners of these scholps. are eligible to apply to the Ministry of Educn. for a supplemental award which is assessed in accordance with financial circumstances. The David de Souza scholp. of the value of £40 p.a. is awarded on the results of an exam. in appl. physiol. held in March; the award is for 4 terms, for the BSc spec. course in physiol. after pre-clin. studies.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**STUDENTS' RESIDENCE.** Hostel for men students at Brabazon House, 5 Moreton St., S.W.1, provides accomm. for some 70 students. Fees £3:15s. per wk. for a single room and £3:5s. per wk. for a cubicle, with morning, evg. and wk.-end meals.

**STUDENTS' HEALTH SERVICE.** There is a students' health service and all students are seen on admission by the physician in charge.

**ATHLETIC FACILITIES.** The sch.'s sports ground is at Cobham, Surrey. Pitches for rugby union football, assocn. football, hockey and cricket; also new pavilion and 6 tennis courts.

**STUDENTS' UNION.** The students' union includes clubs covering rugby union football, assocn. football, athletics, boating, chess, cricket, lawn tennis, hockey, golf, fencing, squash, racquets and sailing. The refectory cttee., responsible to the students union, is in charge of the sch. refectory.

**PUBLICATIONS.** *Prospectus*, biennial. *The Broad Way* (students), 4 times a yr.

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	173	10
Women . .	27	1
	<hr/>	<hr/>
Total .	200	11

*Included in the figures above are :—*

Postgraduate students, 18.

New admissions, 56.

Students from other countries, 18. (Country from which largest number came : Ghana, 3).

DEGREES (1958-59). MB BS Lond., 32 ; MB BChir Camb., 24 ; BM BCh Oxon., 2.

OTHER QUALIFICATIONS (1958-59). MRCS, LRCP, 29.

# POSTGRADUATE MEDICAL SCHOOLS

[Information compiled as at 17/8/60]

## BRITISH POSTGRADUATE MEDICAL FEDERATION

Founded 1945

*Postal Address of Central Office* : 18 Guilford Street, London, W.C.1, England

*Cables and Telegrams* : Britgramed, London

*Telephone* : Holborn 2716

**CHAIRMAN OF GOVERNING BODY**—The Rt. Hon. THE LORD COTTESLOE, GBE, TD, MA *Camb.*

**DIRECTOR**—Professor Sir JAMES PATERSON ROSS, KCVO, Hon. LLD *Glas.*, MS, FRCS

## APPOINTED AND RECOGNIZED TEACHERS

[† = Part-Time]

*Note.*—In the following list the names of the institutes are indicated by letters thus :

Institute of Basic Medical Sciences (BMS)  
Institute of Cancer Research (CR)  
Institute of Cardiology (C)  
Institute of Child Health (CH)  
Institute of Dental Surgery (DS)  
Institute of Dermatology (D)  
Institute of Diseases of the Chest (DC)  
Institute of Laryngology and Otology (LO)

Institute of Neurology (N)  
Institute of Obstetrics and Gynaecology (OG)  
Institute of Ophthalmology (Op)  
Institute of Orthopaedics (Orth)  
Postgraduate Medical School of London (PM)  
Institute of Psychiatry (Psy)  
Institute of Urology (U)

### Anaesthetics

Beard, A. J. W., MD, FFARCS	†Lectr. (PM)
Cope, R. W., FFARCS	†Lectr. (CH)
Goldman, V., FFARCS	†Lectr. (DS)
Lucas, B. G. B., FFARCS	†Lectr. (DC)
Payne, J. P., FFARCS	Lectr. (PM)
Steel, G. C., FFARCS	†Lectr. (OG)
Woodfield-Davies, H., FFARCS	†Sr. Lectr. (PM)

### Anatomy

Causey, G., MB ChB <i>Liv.</i> , FRCS	†Dir. (BMS)
Last, R. J., MB BS <i>Adel.</i> , FRCS	Sr. Lectr.

### Biochemistry

Boyland, E., DSc <i>Manc.</i> , PhD	Prof. (CR)
McIlwain, H., DSc PhD <i>Durh.</i>	Prof. (Psy)

Elson, L. A., PhD Reader (CR)  
 Dalglish, C. E., MA PhD *Camb.* Sr. Lectr. (PM)  
 Longmuir, I. S., MB BChir *Camb.* Sr. Lectr. (DC)  
 Popjak, G. J., MD *Szeged*, FRIC †Sr. Lectr. (PM)  
 Walker, P. G., MB ChB BSc *Edin.*, PhD *Aberd.* Sr. Lectr. (Orth)  
 Sommerville, I. F., PhD MD *Edin.* Lectr. (OG)

**Biophysics**

Hill, D. K., MA *Camb.* Sr. Lectr. (PM)  
 Belcher, E. H., MA *Camb.*, PhD Sr. Lectr. (PM)

**Chemistry**

Bergel, F., DPhil *Freib.*, PhD DSc, FRS Prof. (CR)  
 Butler, J. A. V., DSc, FRS Prof. (CR)  
 Ambrose, E. J., MA *Camb.* (Phys. Chem.) Reader (CR)  
 Ross, W. C. J., DSc PhD Reader (CR)  
 Timmis, G. M., MSc *Manc.*, FRIC Reader (CR)  
 Roe, Edna M. F., BSc PhD Sr. Lectr. (CR)

**Children's Diseases**

Moncrieff, A. A., CBE, MD, FRCP, FRCOG Nuffield Prof. (CH)  
 Tanner, J. M., MD *Penn.*, PhD DSc MB BS DPM (Growth & Devel. of Children) Reader (CH)  
 Tizard, J. P. M., MA BM BCh *Oxon.* Reader (CH)  
 Bonham-Carter, R. E., MB BChir *Camb.*, FRCP †Lectr. (CH)  
 Dobbs, R. H., MD *Camb.*, FRCP †Lectr. (CH)  
 Evans, P. R., MD MSc *Manc.*, FRCP †Lectr. (CH)  
 Franklin, A. W., MA MB BChir *Camb.*, FRCP Lectr. (OG)  
 Lightwood, R., MD, FRCP Lectr. (CH)  
 News, G. H., MD, FRCP †Lectr. (CH)  
 Norman, A. P., MA MD *Camb.*, FRCP †Lectr. (CH)  
 Schlesinger, B. E., OBE, MA MD *Camb.*, FRCP †Lectr. (CH)  
 Sheldon, Sir Wilfred P. H., KCVO, MD, FRCP †Lectr. (CH)  
 Wilmers, Mary J., MD, FRCP †Lectr. (CH)

**Cytogenetics**

Koller, P. C., BSc PhD *Bud.*, DSc *Edin.* Prof. (CR)

**Dental Surgery**

Ballard, C. F., FDSRCS (Orthod.) Prof. (DS)  
 Killey, H. C., FDSRCS (Oral Surg.) Prof. (DS)  
 Bradlaw, R. V., MDS *Durh.*, FRCS, FDSRCS (Oral Med.) Prof., Dir. (DS)  
 Cross, W. G., MB MS BDS †Sr. Lectr. (DS)  
 Morrant, G. A., DDS Sr. Lectr. (DS)  
 Stephens, R. R., BDS Sr. Lectr. (DS)

Lee, J. H., LDS Sr. Lectr. (DS)  
 Mills, J. R. E., MSc *Manc.*, FDSRCS †Lectr. (DS)

**Dermatology**

Calnan, C. D., MA MB BChir *Camb.*, MRCP Prof. (D)  
 Forman, L., MD, FRCP †Lectr. (D)  
 Mitchell-Heggs, G. B., OBE, TD, MD, FRCP †Lectr. (D)  
 Porter, A. D., MD *Camb.*, FRCP †Lectr. (D)  
 Russell, B. F., MD, FRCP †Lectr. (D)  
 Samman, P. D., MD *Camb.*, MRCP †Lectr. (D)

**Hygiene and Public Health**

Roberts, J. A. F., MA *Camb.*, MD *Edin.*, FRCP †Lectr. (CH)

**Medicine**

Bywaters, E. G. L., MB BS, FRCP (Rheumatol.) Empire Rheumatism Council Prof. (PM)  
 Fraser, T. R., MD *N.Z.*, FRCP (Clin. Endocrinol.) Prof. (PM)  
 McMichael, J., MD *Edin.*, FRCP, FRS Prof. (PM)  
 Marshall, J., MD *Manc.*, DPM, MRCP, MRCPEd (Clin. Neurol.) Reader (N)  
 Bignall, J. R., MD *Camb.*, MRCP †Sr. Lectr. (DC)  
 Cope, C. L., BM BCh *Oxon.*, FRCP Sr. Lectr. (PM)  
 Fletcher, C. M., MA *Camb.*, MD, FRCP Sr. Lectr. (PM)  
 Goodwin, J. F., MD †Sr. Lectr. (PM)  
 Harrison, A. R., MD, MRCP Sr. Lectr. (U)  
 McDonald, E. L., MD *Camb.*, MRCP Asst. Dir. (C)  
 Prime, F. J., MD *Durh.* Sr. Lectr. (DC)  
 Scadding, J. G., MD, FRCP †Dir. (DC)  
 Wood, P. H., OBE, MD *Melb.*, FRCP †Dir. (C)

**Lecturers**

Barnes, C. G., MD, FRCP †(OG)  
 Behrman, S., BSc †(Op)  
 Bishop, P. M. F., BA DM *Oxon.* †(OG)  
 Brain, Sir Russell, MA DM *Oxon.*, FRCP †(N)  
 Brinton, D. H., DM *Oxon.*, FRCP †(N)  
 Brooks, W. D. W., CBE, DM *Oxon.*, FRCP †Lectr. (DC)  
 Critchley, M., MD *Brist.*, FRCP †(N)  
 Dimasdale, Mrs. Helen E., MA MD *Camb.*, FRCP †(N)  
 Gavey, C. J., MD, FRCP †(Op)  
 Goody, W. W., MD, FRCP †(N)  
 Hawksley, J. C., CBE, PhD *Birm.*, MD, FRCP †(U)  
 Henson, R. A., MD, FRCP (N)  
 Hugh-Jones, P., MA MD *Camb.*, MRCP †(PM)  
 Kelly, R. E., MD, MRCP †(N)  
 Lander, F. P. Lee, OBE, MD, FRCP †(DC)  
 Livingstone, J. L., MD, FRCP †(DC)  
 Macpherson, Alice M. C., MD, FRCP †(DC)



Meadows, S. P., BSc <i>Liv.</i> , MD, FRCP	†(Op)	Rickford, R. B. K., MD, FRCS, FRCOG	†Lectr.
Nassim, J. R., MA BM BCh <i>Oxon.</i> , FRCP	†(Orth)	Robinson, Kathleen M., MD, FRCS, FRCOG	†Lectr.
Nicholson, H., MD, FRCP	†(DC)	Winterton, W. R., MA MB BChir <i>Camb.</i> , FRCS	†Lectr.
Oswald, N. C., TD, MD <i>Camb.</i> , FRCP	†(DC)	Wynn-Williams, G., MB BS, FRCS	†Lectr.
Plummer, N. S., MD, FRCP	†(DC)		
Pritchard, E. A. B., MA MD <i>Camb.</i> , FRCP	†(N)		
Robson, K., CBE, MD <i>Camb.</i> , FRCP	†(DC)		
Rusby, N. L., DM <i>Oxon.</i> , FRCP	†(DC)		
Smart, J., MD <i>Camb.</i> , FRCP	†(DC)		
Stevenson, F. H., MD	†(Orth)		
Williams, D. J., CBE, DSc MD <i>Manc.</i> , FRCP	†(N)		

**Mental Diseases (Psy)**

Lewis, Sir Aubrey J., MD <i>Adel.</i> , FRCP	Prof.		
Shepherd, M., DM BCh <i>Oxon.</i>	Reader (Psy)		
Ackner, B. G. C., MD <i>Camb.</i> , DPM, MRCP	†Lectr.		
Blacker, C. P., MA, FRCP	†Lectr.		
Cameron, K., MB ChB <i>Edin.</i> , FRCPEd	†Lectr.		
Creak, Eleanor M., MD DPM, FRCP	†Lectr. (CH)		
Davies, D. L., MA DM <i>Oxon.</i> , DPM	†Lectr.		
Gibbens, T. C. N., BA MD <i>Camb.</i> , DPM	†Lectr.		
Gillespie, W. H., MD <i>Edin.</i> , MRCP	†Lectr.		
Hill, J. D. N., MB BS DPM, FRCP	†Lectr.		
Leigh, A. D., MD <i>Manc.</i> , FRCP	†Lectr.		
Pond, D. A., MA MD <i>Camb.</i>	†Lectr.		
Post, F., MB BS, DPM	†Lectr.		
Rees, W. L. L., BSc MD <i>Wales</i> , MRCP	†Lectr.		
Scott, P. D., MA MD <i>Camb.</i>	†Lectr.		
Slater, E. T. O., MA MD <i>Camb.</i> , FRCP	†Lectr.		
Stafford-Clark, D., MD DPM, MRCP	†Lectr.		
Taylor, F. K., MD <i>Prague</i> , DPM	†Lectr.		
Warren, W., MD <i>Camb.</i>	†Lectr.		

**Microbiology**

Loveless, A., BSc PhD	Sr. Lectr. (CR)
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**Obstetrics and Gynaecology (OG)**

Browne, J. C. McC., BSc MB BS, FRCOG, FRCSEd	Prof.		
Pinkerton, J. H. M., MD <i>Belf.</i>	Prof.		
MacGregor, W. G., MB BS <i>Melb.</i> , FRCS	Reader		
Murdoch, J. D., MB ChB <i>N.Z.</i> , FRCSEd	Sr. Lectr.		
Arthur, H. G. E., MD, FRCS, FRCOG	†Lectr.		
Bell, A. C. H., MB BS, FRCS, FRCOG	†Lectr.		
Blakley, J. B., MB BS, FRCS, FRCOG	†Lectr.		
Clayton, S. G., MD MS, FRCS, FRCOG	†Lectr.		
Evans, A. B., MB BChir <i>Camb.</i> , FRCS, FRCOG	†Lectr.		
Fleming, Amy, MD <i>Glas.</i> , FRCOG	†Lectr.		
Flew, J. D. S., MD, FRCOG	†Lectr.		
Gibberd, G. F., MS, FRCS, FRCOG	†Lectr.		
Green-Armytage, V., MD, FRCOG	Lectr.		
Jackson, I. M., MB BChir <i>Camb.</i> , FRCS	†Lectr.		
Lewis, T. L. T., MB BChir <i>Camb.</i> , FRCS	†Lectr.		

**Ophthalmology (Op)**

Perkins, E. S., MB BS, FRCS	Reader		
Cardell, J. D., MB BS, FRCS	†Lectr.		
Cook, C. A. G., MC, GM, FRCS	†Lectr.		
Cross, A. G., MA MD <i>Camb.</i> , FRCS	†Lectr.		
Doggart, J. H., MA MD <i>Camb.</i> , FRCS	Lectr.		
Duke-Elder, Sir Stewart, KCVO, MA MD DSc <i>St.And.</i> , PhD, FRCS, FRS	†Dir.		
Goldsmith, A. J. B., MB BS, FRCS	†Lectr.		
King, E. F., MB ChB <i>Brist.</i> , FRCS	†Lectr.		
Law, F. W., MA MD <i>Camb.</i> , FRCS	†Lectr.		
Leigh, A. G., MD <i>Liv.</i> , FRCS	†Lectr.		
Lister, A., MB BChir <i>Camb.</i> , FRCS	†Lectr.		
Lyle, T. K., CBE, MA MD MChir <i>Camb.</i> , FRCS	†Lectr.		
Miller, S. J. H., MD <i>Aberd.</i> , FRCS	†Lectr.		
Moffatt, P. McG., MD DOMS DPH, FRCS	†Lectr.		
Ridley, F. T., BSc MB BS, FRCS	†Lectr.		
Ridley, N. H. L., MA MD <i>Camb.</i> , FRCS	†Lectr.		
Shapland, C. D., MB BS, FRCS	†Lectr.		
Stallard, H. B., MBE, MD <i>Camb.</i> , Hon. LL.D <i>St. And.</i> , FRCS	†Lectr.		

**Orthopaedics (Orth)**

Burrows, H. J., MA MD <i>Camb.</i> , FRCS, FRACS	†Lectr.		
Cholmeley, J. A., MB BS, FRCS	†Lectr.		
Fripp, A. T., MB BCh <i>Oxon.</i> , FRCS	†Lectr.		
Lloyd-Roberts, G. C., MB BChir <i>Camb.</i> , FRCS	†Lectr. (CH)		
Nissen, K. I., BSc MB ChB <i>N.Z.</i> , MD, FRCS	†Lectr.		
Newman, P. H., DSO, MC, FRCS	†Lectr.		
Seddon, H. J., MA DM <i>Oxon.</i> , MB BS, FRCS	†Dir.		
Trevor, D., MB MS, FRCS	†Lectr.		
Wilson, J. N., MB ChM <i>Birm.</i> , FRCS	†Lectr.		

**Oto-Rhino-Laryngology**

Harrison, D. F. N., MD MS, FRCS			
	(Laryngol.)	Reader (I.O)	
McLay, K., MB ChB <i>Edin.</i> , FRCSEd			
	(Otol.)	Reader (I.O)	
Asherson, N., MB BS, FRCS	†Lectr. (I.O)		
Cawthorne, T., FRCS	†Lectr. (N)		
Ellis, M. P., MD MS, FRCS	†Lectr. (I.O)		
Gill-Carey, C., FRCS	†Lectr. (I.O)		
Hallpike, C. S., CBE, MB BS, FRCS, FRCP	†Lectr. (N)		
Hogg, J. C., MB BChir <i>Camb.</i> , FRCS	†Lectr. (I.O)		
Howells, G. H., MB BS, FRCS	†Lectr. (I.O)		
McKenzie, W. S., BA MB BChir <i>Camb.</i> , FRCS	†Lectr. (I.O)		
Radcliffe, A., BA MB BCh <i>Dub.</i> , FRCS	†Lectr. (I.O)		

**Pathology and Bacteriology**

Ashton, N. H., MRCP (Pathol.) Prof. (Op)  
 Blackwood, W., MB ChB *Edin.*, FRCSEd,  
 MRCPed (Neuropathol.) Prof. (N)  
 Cumings, J. N., MD, FRCP (Chem. P.) Prof. (N)  
 Dacie, J. V., MD, FRCP (Hæmatol.) Prof. (PM)  
 Daniel, P. M., MB BChir *Camb.*, DM *Oxon.*  
 (Neuropathol.) Prof. (Psy)  
 Faddow, A., MD DSc PhD *Edin.*, FRS  
 (Exper. P.) Prof. (CR)  
 (Exper. P.) Prof. (CR)  
 Harrison, C. V., MD BSc *Wales*  
 (Morbid. Anat.) Prof. (PM)  
 King, E. J., MA *McM.*, PhD *Tor.*  
 (Chem. P.) Prof. (PM)  
 Stamp, Rt. Hon. Lord, MA MB BChir  
*Camb.* (Bacteriol.) Prof. (PM)  
 Barber, Mary, MD  
 (Clin. Bacteriol.) Reader (PM)  
 Friedmann, I., MD *Prague*, DCP  
 (Bacteriol.) Reader (LO)  
 Kramer, I. R. H., MDS (Oral P.) Reader (DS)  
 Pearce, A. G. E., MA MD *Camb.*, DCP  
 (Pathol.-Histochem.) Reader (PM)  
 Pierley, J. B., MD ChB *Brist.* Sr. Lectr. (Psy)  
 Rowing, N. F. C., MD †Sr. Lectr. (CR)  
 Day, J. R., MD *Camb.* Sr. Lectr. (DC)  
 Mitchison, D. A., BA MB BChir *Camb.*  
 Sr. Lectr. (PM)  
 Tickner, A., BSc MB BS Sr. Lectr. (D)  
 White, J. C., MB ChB *Birm.* Sr. Lectr. (PM)  
 Vootton, I. D. P., MB BChir *Camb.*, PhD  
 Sr. Lectr. (PM)  
 Rodian, M., MD *Vienna*, DCP †Lectr. (CH)  
 Laireaux, A. E., MD †Lectr. (OG)  
 Clayton, Barbara E., PhD MD ChB *Edin.*  
 †Lectr. (CH)  
 Cunningham, G. J., MBE, MD †Dir. (BMS)  
 Ferreira, H. P., MD Lectr. (OG)  
 Haber, H., MD *Prague* †Lectr. (D)  
 Haines, R. M., MD †Lectr. (OG)  
 Hardisty, R. M., MD, MRCP †Lectr. (CH)  
 Heard, B., MD *Wales*, MRCP Lectr. (PM)  
 Hinson, K. F. W. †Lectr. (DC)  
 Hudson, R. E. B., BPharm MD Lectr. (C)  
 Jack, C. H., MB BS *Syd.* Lectr. (Orth)  
 Levin, B., PhD MD †Lectr. (CH)  
 Mollin, D. L., BSc MB BCh *Wales* Lectr. (PM)  
 Murray, J., MD *Camb.* †Lectr. (OG)  
 Pugh, R. C. B., MD BS †Lectr. (U)  
 Riddell, R. W., MD, FRCPEd †Lectr. (DC) & (D)  
 Sandler, M., MB ChB *Manc.*, MRCP †Lectr. (OG)  
 Sissons, H. A., MB BS *Melb.* Lectr. (Orth)

**Pharmacology**

Jorn, G. V. R., DPhil *Oxon.*, MB  
 ChB *Edin.* Vandervell Prof. (BMS)

**Physics**

Mayneord, W. V., CBE, DSc *Birm.*, FIP  
 Prof. (CR)

Lamerton, L. F., MSc PhD, FIP

(Biophys. as appl. to Med.) Prof. (CR)  
 Trott, N. G., BSc PhD, FIP Sr. Lectr. (CR)  
 Turner, R. C., BSc PhD Sr. Lectr. (CR)

**Physiology**

Harris, G. W., MA MD ScD *Camb.*, FRS  
 Fitzmary Prof. (Psy)  
 Goldacre, R. J., MSc *Syd.*, PhD  
 (Cell Physiol.) Reader (CR)  
 Slome, D., MA PhD MB ChB *Cape T.*  
 †Dir. (BMS)

**Psychology**

Eysenck, H. J., BA PhD Prof. (Psy)  
 Shapiro, M. B., MA *Rhodes* Reader (Psy)  
 Gwynne Jones, H., BSc Sr. Lectr. (Psy)  
 Broadhurst, P. L., MA *Stan.*, PhD  
 Sr. Lectr. (Psy)  
 Granger, G. W., BA PhD Lectr. (Psy)

**Radiobiology**

Alexander, P., BSc PhD Sr. Lectr. (CR)

**Radiology**

Smithers, D. W., MD *Camb.*, DMR, FRCP,  
 FFR Prof. (CR)  
 Bull, J. W. D., MA MD *Camb.*, DMR, FRCP,  
 FFR †Lectr. (N)  
 Golding, F. C., MB ChM *Syd.*, DMRE *Camb.*,  
 FRCP, FFR †Lectr. (Orth)  
 Lederman, M., DMRE *Camb.*, MB BS,  
 FFR Sr. Lectr. (CR)  
 Steiner, R. E., MD *Dub.*, FFR Lectr. (PM)  
 Sutton, D., MD, MRCP, FFR †Lectr. (N)  
 Williams, E. R., DMRE *Camb.*, MD,  
 FRCP, FFR †Lectr. (OG)

**Surgery**

Aird, I., MB ChB *Edin.*, FRCSEd Prof. (PM)  
 Wilkinson, A. W., ChM *Edin.*, FRCSEd  
 (Pæd. S.) Nuffield Prof. (CH)  
 Dempster, W. J., FRCSEd  
 (Exper. S.) Reader (PM)  
 Shackman, R., MB BS, FRCS Reader (PM)  
 Franklin, R. H., MB BS, FRCS †Sr. Lectr. (PM)  
 Gray, C. H., BSc MB ChB *Manc.*, FRCS  
 †Sr. Lectr. (PM)  
 Knight, G. C., MB BS, FRCS †Sr. Lectr. (PM)  
 Melrose, D. G., MA BM BCh *Oxon.*  
 Lectr. (PM)  
 Badenoch, A. W., MA MD ChM *Aberd.*,  
 FRCS †Lectr. (U)  
 Barrett, N. R., MB MChir *Camb.*, FRCS  
 Lectr. (DC)  
 Bentall, H. H., MB BS, FRCS Lectr. (PM)  
 Brock, Sir Russell C., MS, FRCS †Lectr. (DC)  
 Cleland, W. P., MB BS *Adel.*, FRCS †Dir. (DC)  
 Fergusson, J. D., MA MD *Camb.*, FRCS  
 †Lectr. (U)  
 Heanley, C. L., MA MB, FRCS †Lectr. (LO)  
 Jackson, H., FRCS †Lectr. (N)  
 Kilpatrick, F. R., MB MS, FRCS †Lectr. (U)  
 Macnab, G. H., MB ChB *Edin.*, FRCS  
 †Lectr. (CH)

Martin, P. G. C., MA MB MChir <i>Camb.</i> , FRCSed †Lectr. (PM)	Sellors, T. Holmes, DM MCh <i>Oxon.</i> , FRCS †Lectr. (DC)
Matthews, D. N., OBE, MA MD MChir <i>Camb.</i> , FRCS †Lectr. (CH)	Stephenson, W. H., FRCSed †Lectr. (PM)
McKissock, W., OBE, MB MS, FRCS †Lectr. (N)	Taylor, S. F., MA BM MCh <i>Oxon.</i> , FRCS †Lectr. (PM)
Monro, A. K., MA MD BChir <i>Camb.</i> , FRCS †Lectr. (PM)	Thompson, V. C., MB BS, FRCS †Lectr. (DC)
Nixon, H. H., MB BChir <i>Camb.</i> , FRCS †Lectr. (CH)	Tubbs, O. S., MB BChir <i>Camb.</i> , FRCS †Lectr. (DC)
Rees, H., MA BM MCh <i>Oxon.</i> , FRCS †Lectr. (U)	Waterston, D. J., MBE, MB ChB <i>Edin.</i> , FRCS †Lectr. (CH)
Sandrey, J. G., MB ChM <i>Syd.</i> , FRCS †Lectr. (U)	Williams, D. I., MA MD MChir <i>Camb.</i> , FRCS †Lectr. (CH)

## ADMINISTRATIVE AND OTHER STAFF

STAFF OF CENTRAL OFFICE. Asst. Director : C. F. Hamilton-Turner, MA DM BCh *Oxon.*  
Secretary of Central Office : A. Yvonne Champ-  
taloup, MBE, BA N.Z. Accountant : H. Leslie  
Smith, FCA. Regional Advisers in Postgrad.  
Educn. to Metropolitan Hosp. Regions : Medical :

N.E. Region, D. F. Ellison Nash, FRCS ; S.E.  
Region, A. A. G. Lewis, MD, MRCP ; N.W.,  
S.W. Region & Wessex Regions, D. C. Bowie,  
OBE, MB ChB *Glas.*, FRCSed. Dental :  
A. D. E. Shefford, OBE, FDSRCS.

## GENERAL INFORMATION

The federation was establd. by the senate in 1945 for the further devel. of postgrad. med. educn. in London. It was incorporated by royal charter in March 1947, and admitted as a sch. of the univ. in Dec. 1947. The purpose of the federation is to provide organized and correlated facilities for postgrad. teaching and res. for qualified med. and dent. practitioners from the U.K., the dominions, colonies and abroad, and to co-operate with univs., med. schs., the royal colls. and other bodies in their provisions for postgrad. med. educn. The federation provides : (i) trg. for prospective specialists, supplementing the work of the undergrad. med. and dent. schs. ; (ii) advanced revision for practising specialists ; (iii) instructn. for med. and dent. practitioners who, though not specialists, desire more detailed knowledge of any branch of med. or dent. ; (iv) continuing educn. of general practitioners.

The federation comprises at present : *federated institutes*—Postgrad. Med. Sch. of Lond. ; Inst. of Basic Med. Scis. ; Inst. of Cancer Res. ; Royal Cancer Hosp. ; Inst. of Cardiol. ; Inst. of Child Health ; Inst. of Dental Surg. ; Inst. of Dermatol. ; Inst. of Dis. of the Chest ; Inst. of Laryngol. & Otol. ; Inst. of Neurol. (Queen Square) ; Inst. of Obstet. & Gynæcol. ; Inst. of Ophthalmol. ; Inst. of Orthopæd. ; Inst. of Psychiatry ; Inst. of Urol.

Postgraduate educn. at the insts. and the hosps. associated with them includes full-time and pt.-time courses of advanced instructn., clin. clerkships, jr. and sr. resident hosp. appts. and opportunities for res. Provision is made for candidates for the MD, MS, MDS and PhD degrees, and courses are held for the academic postgrad. dipls.

in clin. pathol. and psychol. med. of the univ. In addn. most insts. hold conferences and symposia for consultants, and there are one-day clin. conferences for sr. registrars.

The federation organizes short courses for general med. and dent. practitioners and med. officers of local authorities at hosps. in the 4 London metropolitan regions and the Wessex region ; these incl. a number of courses consisting of half-day sessions, at undergrad. and postgrad. teaching hosps. The admin. of the federation is carried out by the central office, which maintains a bureau of information on postgrad. med. educn. in the U.K., and arranges annually a series of lectures on 'the scientific basis of med.'. Three lectures on 'the scientific basis of dent.' will again be held in 1961. These are designed for res. workers and specialists in trg., and are given by well-known experts from centres throughout the country.

The federation awards a limited number of travelling fellowships annually to medically or dentally qualified men and women who are holding appts. or are engaged in postgrad. study at undergrad. or postgrad. teaching hosps. or med. schs. of the Univ. of London. *See also* p. 825.

Following the institution of the national health service in July 1948, the federation appointed to the staff of the central office a regional adviser for postgrad. med. educn. in each of the 4 metropolitan regions to carry out the policy of the univ. and the federation in arranging postgrad. educn. for the practitioners, both specialist and general, in the region. The S.W. metropolitan region was divided into 2 in 1959, the more distant part being separated from the S.W. region and named the

Wessex region. In Oct. 1956 a regional adviser in postgrad. dental educn. was apptd. The regional advisers are members of the admin. staff of the central office (*see above*).

**PUBLICATIONS.** *Annual Report and Handbook*; information leaflet concerning federation; table of postgrad. med. courses held at univs. in the U.K.;

programmes of courses for general med. and dent. practitioners organized by federation; programmes of symposia for consultants and clin. conferences for sr. registrars held at insts. of the federation; annual vol. of lectures arranged by the federation on 'the scientific basis of med.' (Athlone Press).

## THE YEAR 1959

**STUDENT NUMBERS** are shown below for each inst. The majority of postgrads. of the fed. (there are no undergrad. students) stay only 1 or 2 terms of the session at an inst. and very few remain over from one yr. to another, as they are encouraged to take hosp. appts. as part of their clin. trg. The numbers of full-time students given below for each inst. are those who attended full-time for 1 term or more of the yr. Pt.-time includes those who attended for less than 1 term, whether full-time or

pt.-time, and those who attended pt.-time for any period of the yr. incl. occasl. lectures, etc. Most of the pt.-time students spend the rest of their time at other hosps. in London or in reading for exams. Students from other countries, 2314. (Countries from which largest numbers came: India, 447; Australia, 289; South Africa, 173; Egypt, 108; Ceylon, 99; Pakistan, 97; New Zealand, 90; U.S.A., 84; Canada, 81; Eire, 77).

## INSTITUTES OF THE FEDERATION

- (a) **POSTGRADUATE MEDICAL SCHOOL OF LONDON** (Ducane Rd., Shepherd's Bush, London, W.12. Cables and Telegrams: Postgradmed Chisk, London. Tel.: Shepherd's Bush 2030). *Dean*—C. Newman, MD *Camb.*, FRCP.

Incorporated by royal charter 1931, reconstituted in 1946 as an inst. of the federation for postgrad. instructn. in med., surg., pathol. and radiol. The sch. is associated with Hammersmith Hosp.—which contains, when fully opened, 710 beds. There are 3 ten-week terms in the yr. when organized teaching is arranged daily from 9 a.m. to 4 p.m.; hosp. practice available during vacation. Fees: £40 per term. Facilities for res. work provided under direction of profs. for suitable students. Course for dipl. in clin. pathol. commences annually in Oct. Courses in anaesthetics are arranged for advanced students in the Oct. and Apr. terms and teaching suitable for candidates for the DA is provided in the Jan. term, with a prelim. practical course in the preceding autumn term. There is a pathol. museum and a mod. and well-equipped reference library for use of the students.

**PUBLICATIONS.** *Prospectus and Annual Report*.

### THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Grants for res. re-

ceived totalling £42,115. Over £50,000 raised in S. Africa for sch.'s appeal fund for new bldgs.

**MAJOR BUILDING DEVELOPMENTS.** Exper. res. unit, consisting of 4 floors of labs. and accomm. for animals, brought into use.

**NEW DEPARTMENT.** Nucleus of a dept. in med. engin. provided by endowment of lectureships in med. engin. (electronics) by Cambridge Scientific Instrument Co., and of a lectureship in med. engin. (instrument) by Leverhulme Trust.

**RESIGNATIONS.** Dr. Sheila Sherlock (med.), apptd. to chair of med., Royal Free Hosp. Sch. of Med.

**OTHER DEVELOPMENTS.** F.-M. Earl Alexander of Tunis became first pres. of sch.

**STUDENT NUMBERS, 1959-60.** (*See also 'Student Numbers', above.*)

Full-Time	Part-Time	Total
353 m., 50 w.	109 m., 10 w.	522

- (b) **INSTITUTE OF BASIC MEDICAL SCIENCES** (Royal College of Surgeons of England, Lincoln's Inn Fields, London, W.C.2. Tel.: Holborn 3474). *Dean*—H. J. B. Atkins, DM MCh *Oxon.*, FRCS.

The inst., formed in 1951 and approved for recog. as a federated inst. of the federation in Jan. 1957, comprises the teaching facilities of the

depts. of anat., pathol., pharmacol. and physiol. of the Royal Coll. of Surgeons of England. It co-operates with other specialist insts. of the

federation to provide facilities for practical work and instructn. in basic med. scis., and there are opportunities for res. for selected grads. Library, museum and residential accomm. available. Regular 15 wks.' revision courses commence in Jan. and Sept. suitable for candidates for higher med. degrees and dipls.; fee, 70 gs. (lectures only, 40 gs.). 2-months' revision courses for dent. surgeons commence in Dec. and June; fee, 35 gs.

### THE YEAR 1959

NEW CHAIR. Vandervell chair of pharmacol.

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
153 m., 6 w.	305 m., 38 w.	502

(c) INSTITUTE OF CANCER RESEARCH: ROYAL CANCER HOSPITAL, Fulham Rd., London, S.W.3. Tel.: Flaxman 8171. (Chester Beatty Research Inst., tel.: Flaxman 1484.) Actg. Dean—Prof. A. Haddow, MD DSc PhD Edin., FRS.

The inst., approved for recog. as a federated inst. of the federation in 1951, comprises Chester Beatty Res. Inst. and parts of the depts. of physics and radiotherapy at the Royal Marsden Hosp. It is concerned with all aspects of res. into causation and treatment of cancer, with trg. of res. workers in this field, and with advanced teaching in biophys. and radiotherapy. Courses are held for the MSc and PhD degrees in physics and biophys. of the Univ. of London. Excellent facilities are available in the physics dept. at Sutton for res. in radiobiol. and environmental radioactivity. The radiotherapy dept. provides clin. trg. for DMRT students, and courses of 1 week's duration in May and Nov. for visitors with suitable experience. Facilities for those wishing to pursue res. in the

clin. and pathol. aspects of cancer. Facilities also for res. into physical and biol. foundations of med. radiol. There are labs. for chem., biochem. and histol. investigations into cancer and allied diseases, and a library.

### THE YEAR 1959

DEATH. Prof. E. S. Horning (prof. of exper. pathol.) (histopathol.).

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
49 m., 11 w.	29 m., 3 w.	92

(d) INSTITUTE OF CARDIOLOGY (35 Wimpole St., London, W.1. Tel.: Welbeck 1896) Dean—G. W. Hayward, MD, FRCP.

The inst., which is associated with the National Heart Hosp. and was formed in 1946, has been approved for recog. as a federated inst. of the federation since April 1, 1954. Trg. is provided by means of registrar appts. for physicians who intend to specialize in cardiol., and full-time instructn. for a period of 3 mos. for postgrads. already trained in general med. Trg. includes clin. cardiol., electro-cardiography and radiol. and pathol. of the heart. Courses start in April and Oct.: fee, 35 gs., pt.-time, 18 gs. Spec. 2-week course is held in the spring term: fee, 18 gs. Specially selected postgrads. are accepted for long-term trg., incl. res. methods: fee, 120 gs.

p.a. A limited number of honorary asst. registrar appts. are available each yr. for well-qualified grads. from overseas who are in receipt of fellowships or grants from their own countries. Library, museum and res. facilities.

PUBLICATION. *Handbook*.

### THE YEAR 1959

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
29 m., 2 w.	64 m., 5 w.	100

(e) INSTITUTE OF CHILD HEALTH (The Hospital for Sick Children, Great Ormond St., London, W.C.1. Tel.: Holborn 2196). Dean—G. H. Newsa, MD, FRCP.

Founded 1945, and associated with The Hosp. for Sick Children, Queen Elizabeth Hosp. for Children and postgrad. med. sch. at Hammer-smith Hosp. Approved for recog. as federated inst. of the federation from 1948. Main objects

are (a) to promote the study of all aspects of disease and its prevention in childhood; (b) to provide instructn. in clin. paediatrics and prevention of dis. in childhood and in the basic med., surg. and pathol. of children.

Tuition provided daily in 3 terms of 12 weeks each. Fees: 1 term, £26:5s.; 2 terms, £47:5s. Clin. clerkships available for selected students. Students' common room and library provided.

PUBLICATIONS. *Prospectus* and *Annual Report*.

### THE YEAR 1959

NEW DEPARTMENT. Enzyme res. unit establ.

OTHER DEVELOPMENT. Trustees of bldg. appeal fund apptd.

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

<i>Full-Time</i>	<i>Part-Time</i>	<i>Total</i>
117 m., 38 w.	54 m., 20 w.	229

(f) INSTITUTE OF DENTAL SURGERY (Eastman Dental Hospital, Gray's Inn Rd., London, W.C.1. Tel.: Terminus 7251). *Dean and Dir. of Studies*—R. Bradlaw, CBE, FRCS, FDSRCS.

The inst. is associated with the Eastman Dental Hosp.; formed in 1948, and approved for recog. as a federated inst. of the federation from Oct. 1951. In addn. to trg. by means of full- and pt.-time appts. in the inst. there are courses in orthodontics (full- and pt.-time, up to 1 yr.) and in periodontol., conservative dent., prosthetic dent., minor oral surg., children's dent. and oral pathol. (variable length, full- and pt.-time). Full-time refresher courses of 2 weeks' duration arranged twice yrly. for general practitioners. Courses also held in conjunction with fac. of dent. surg. of Royal Coll. of Surgeons, particularly intended for candidates preparing for final exam. for FDSRCS. These commence in April and Oct. (for approx. 8 months); fee, £60; in April

and Oct. there are 8-week intensive courses fee, £31:10s. Res. and library facilities.

PUBLICATION. *Prospectus*.

### THE YEAR 1959

NEW CHAIR. Oral surg.

RETIREMENT. Dr. F. C. Wilkinson (dean, dir. of studies).

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

<i>Full-Time</i>	<i>Part-Time</i>	<i>Total</i>
87 m., 9 w.	173 m., 13 w.	282

(g) INSTITUTE OF DERMATOLOGY (St. John's Hospital for Diseases of the Skin, Lisle St. (Leicester Sq.), London, W.C.2. Tel.: Gerrard 8383). *Dean*—B. F. Russell, MD, FRCP.

Inst. formed in 1946 and approved for recog. as a federated inst. of the federation from May 1959. It is associated with St. John's Hosp. for Diseases of the Skin. Clin. teaching in out-patient dept. daily, and twice monthly at in-patient dept. at Homerton. Fees for attendance on hosp. practice, 60 gs. for a yr., 25 gs. for 1 term. Tutorials in clin. dermatol. and histopathol. of the skin are given twice a week in term-time. The yr.'s lecture course commences in Oct. and carries on during univ. terms until the end of June. During this period also there are, each week, clin. demonstrations, and a discussion of cases of sp. interest to which full-time students are invited. There are facilities for study or instructn. in radiotherapy, biopsy technique and skin testing, biochem. and pathol., incl. histopathol. and med.

mycol., in which two subjects sp. short courses are held. Courses in clin. dermatol. are also given for general practitioners. Advanced students can apply for clin. and res. assistantships, the former of which are competitive. There is a museum of wax moulages, a photographic dept. and library.

PUBLICATION. *Prospectus*.

### THE YEAR 1959

MAJOR BUILDING DEVELOPMENT. 4th ward at in-patient dept. completed.

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

<i>Full-Time</i>	<i>Part-Time</i>	<i>Total</i>
28 m., 5 w.	48 m., 13 w.	94

(h) INSTITUTE OF DISEASES OF THE CHEST (Brompton Hospital, London, S.W.3. Tel.: Flaxman 3707). *Dean*—J. R. Bignall, MD, MRCP.

The inst. was formed in 1946 and approved for recog. as a federated inst. of the federation from Oct. 1955. It is associated with the hosps. for diseases of the chest (Brompton Hosp. and the London Chest Hosp.). Pt.-time courses of study in chest dis., incl. tuberculosis, are conducted for 10 weeks, 3 times a yr., starting in Jan., April and Oct.; fee, £25. A whole-time programme

intended for those specializing in chest dis., consists of attendance at clin. work at the 2 hosps., radiological and pathological demonstrations, discussions and formal lectures; fee, £40 per term. Whole-time courses in chest surg. are conducted during 3 terms of 10 weeks each, beginning in Jan., Apr. and Oct. They are intended as an introduction to thoracic, cardiac and œsophageal

surg.; fee, £40 per term. Pt.-time instructn. in radiol. of the chest for trainee radiologists only is given each term; fee, £20. Library, museum and res. facilities.

**PUBLICATIONS.** *Syllabus of Courses; Annual Report & Handbook; Brompton Hosp. Reports.*

- (i) **INSTITUTE OF LARYNGOLOGY AND OTOTOLOGY** (Royal National Throat, Nose and Ear Hospital, Gray's Inn Rd., London, W.C.1. Tel.: Terminus 8855). *Dean*—J. C. Hogg, FRCS.

The inst. is associated with the Royal National Throat, Nose and Ear Hosp. in Gray's Inn Rd., London, W.C.1, and Golden Square, London, W.1, and was founded in 1945 for the trg. of specialists and the prosecution of res. in otorhino-laryngol. It was approved for recog. as a federated inst. of the federation in Jan. 1949. In addn. to the daily clin. teaching which goes on throughout the year (the fees for which are 9 gs. for 3 months or £21 for 12 months), the theoretical aspects of the specialty and of the basic scis. on which it is founded are covered by a course of lectures and demonstrations held twice annually. The course fees are: basic scis. (14 weeks), £25; intensive clin. lecture period (6 weeks), 18 gs.; practical revision class (2 weeks), 6 gs. An advanced revision course for sr. students lasting 2 weeks is also held twice yrly.; fee, 10 gs. Courses in sp. subjects, such as malignant diseases,

**THE YEAR 1959**  
**MAJOR BUILDING DEVELOPMENT.** 4-storey lab. extension opened in May.

**STUDENT NUMBERS, 1959-60.** (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
87 m., 8 w.	70 m., 6 w.	171

endoscopy, audiol., pathol. and aural surg., are held several times annually. The inst. is housed partly inside the hosp. and partly in adjoining accomm. adapted for the purpose. There are pathol. and anat. museums, a library with reading and writing rooms, and students' common rooms. Res. labs. are available.

**PUBLICATIONS.** *Prospectus and Annual Report.*

### THE YEAR 1959

**RETIREMENT.** Prof. F. C. Ormerod \* (laryngol. & otol.).

**STUDENT NUMBERS, 1959-60.** (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
83 m., 3 w.	74 m., 5 w.	165

- (j) **INSTITUTE OF NEUROLOGY** (National Hospital, Queen Square, London, W.C.1. Tel. Terminus 3611). *Dean*—M. Kremer, MD BSc, FRCP.

The inst. is a continuation of the med. sch. associated with the National Hosp., Queen Square, where postgrad. clin. teaching and res. have been carried on for past 90 yrs.; also associated with the Hosp. for Nervous Diseases, Maida Vale. Clin. teaching in neurol. and neuro-surg. continues throughout the yr., and is mainly by means of attendance on the hosp. practice. Fee, £36 for 3 months, £70 for 6 months and £120 for 1 yr. Three courses are held annually, commencing in Oct., Jan. and Apr., and are of 10 weeks' duration. Fee, £40. Ward rounds and out-patient teaching clinics throughout yr. Clin. demonstrations are held twice a week. In con-

junction with Inst. of Psychiatry, the inst. holds full-time courses in Jan. and Oct. in electroencephalography. Fee, £25; 5s. Res. labs., X-ray and photographic depts. and library.

**PUBLICATIONS.** *Prospectus and Annual Report.*

### THE YEAR 1959

**NEW CHAIR.** Neurol.

**STUDENT NUMBERS, 1959-60.** (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
142 m., 16 w.	225 m., 25 w.	408

- (k) **INSTITUTE OF OBSTETRICS AND GYNÆCOLOGY** (The Chelsea Hospital for Women, Dovehouse St., London, S.W.3. Tel.: Flaxman 9509). *Dean*—R. M. Feroze, MD, FRCS.

The inst. is associated with Queen Charlotte's Maternity Hosp., the Chelsea Hosp. for Women and the dept. of obstetrics & gynæcol. at Hammersmith Hosp. It was formed in 1948, and was approved for recog. as a federated inst. of the federation from Oct. 1949. It has 241 beds for obstet. and 172 for gynæcol. Trg. is mainly by

means of courses of instructn., which include lectures and demonstrations held during 2 long terms only, commencing in Sept. and March; each term is of 13 weeks' duration. Fees, £36 per term. An advanced revision course of 2 weeks' duration is held in June and Dec. (fee, £14:14s.), and a week's course for general practitioners is

Remaining as dir. of res.

held twice a yr. (fee, £5:5s.). There is provision for general practitioners with a sp. interest in obstet. and gynæcol. to attend for short periods. Resident house appts. and registrarships are advertised and filled by open competition. They afford increasing responsibility for the care of patients and opportunities for original investigation, under supervision. Res. and museum facilities.

PUBLICATIONS. *Prospectus* and *Three-year Report* (1955 to 1958).

### THE YEAR 1959

NEW CHAIR. Obstet. & gynæcol. at Queen Charlotte's and Chelsea Hosps.

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
91 m., 33 w.	93 m., 29 w.	146

- (l) INSTITUTE OF OPHTHALMOLOGY (Judd St., London, W.C.1. Tel.: Euston 9621). Dean—T. Keith Lyle, CBE, MD MCh, MRCP, FRCS.

The inst. is associated with Moorfields Eye Hosp. and has developed from the med. school of the Royal London Ophthalmic (Moorfields) Hosp., where clin. teaching and res. have been carried on since its establ. in 1811. It was approved as a federated inst. of the federation in June 1949. In addn. to teaching by means of hosp. practice, a lecture and tutorial course lasting 9 months (divided into 2 terms) is held twice a year, commencing in March and Oct. Part I consists of anat., embryol., histol., physiol., optics and elementary clin. instructn. Part II comprises bacteriol., pathol., operative surg., med. ophthalmol. and all aspects of ophthalmic dis. Fee for each term, £31:10s. Part-time revision courses in the basic scis., and clin. teaching and lectures are given at a higher level for advanced students. A course in slit lamp microscopy is held each term. Courses of 1 week's duration are held during

the terms commencing in March or Oct. in orthoptics (fee, £5:5s.) and contact lens practice (fee, £10:10s.). Labs. for bacteriol., histol., biochem. and res. in all fields associated with the physiol. and pathol. of the eye and vision are available. There are also library and museum facilities.

PUBLICATIONS. *Prospectus* and *Annual Report*.

### THE YEAR 1959

NEW CHAIR. Ophthalmol.

RETIREMENT. R. C. Davenport (dean).

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
134 m., 10 w.	95 m., 14 w.	253

- (m) INSTITUTE OF ORTHOPÆDICS (Royal National Orthopædic Hospital, Great Portland St., London, W.1. Tel.: Euston 5070). Dean—H. Jackson Burrows, MA MD Camb., FRCS, FRACS.

The inst. was formed in 1946, and is associated with the Royal National Orthopædic Hosp. Approved for recog. as a federated inst. of the federation from Jan. 1951. The practice of the town section and the country section at Stanmore is open to postgrad. students. This includes weekly clin. discussions and monthly teaching ward rounds. There is a programme of evg. conferences during univ. terms, and approx. 5 short advanced courses are held annually. Fee, 3 gs. to 10 gs. Week-end courses (without fee) are held for invited consultants and registrars. Sp. lectures on Friday evgs. in winter. Fee, 3 gs. There is an annual fortnight's course for continental surgeons. Students should have previous surg. trg.

and experience. Intensive educn. and trg. is provided for holders of jr. hosp. posts, and selected postgrads. may go on to inst. appts. with sp. provision for res. Library and museum facilities.

PUBLICATION. *Prospectus*.

### THE YEAR 1959

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
67 m., 6 w.	62 m., 5 w.	140

- (n) INSTITUTE OF PSYCHIATRY (Maudsley Hospital, Denmark Hill, London, S.E.5. Tel. Rodney 6333). Dean—D. L. Davies, MA DM Oxon.

Associated with the Maudsley Hosp., Denmark Hill, and the Bethlem Royal Hosp. Admitted as a sch. of the univ. in May 1924, and approved for

recog. as a federated inst. of the federation in March 1948.

Psychiatric trg. based on responsible hosp.



duties under supervision given throughout yr., suitable for doctors studying for academic post-grad. dipl. in psychol. med., and comprising clin. instructn. supplemented by lecture and demonstration courses in each term. Fees: full course, £23:2s. for 1 term, £65:8s. for 1 yr.; lecture courses, £12:12s. for 1 term, £36 for 1 yr. Hosp. jr. staff appts. also available. There are a few vacancies in sp. 6-monthly courses in child psychiatry (fee, £29:8s.). Hons. grads. in psychol. are accepted for a yr.'s course in abnormal psychol. for postgrad. dipl. in psychol. (fee, £37). Other courses incl. electro-encephalography (in conjunction with the Inst. of Neurol.). The neuropathol., biochem., psychol., electro-physical and exper. neuro-endocrinol. labs. offer facilities for res. and study for higher degrees. Library takes relevant periodicals, in various langs.

PUBLICATIONS. *Annual Report*; *Syllabus of Courses*; *Maudsley Monographs*.

### THE YEAR 1959

PRINCIPAL BENEFACTIONS. Wolfson Trust, £184,000 for teaching and library block. Res. grants from Med. Res. Council, Home Office, Nuffield Provincial Hosps. Trust, Mental Health Res. Fund, Natnl. Inst. of Health (U.S.), Foundations' Fund for Res. in Psychiatry (U.S.) & Wallace Labs. (U.S.), amounting in all to £26,000.

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
190 m., 39 w.	70 m., 22 w.	321

(o) INSTITUTE OF UROLOGY (10 Henrietta St., London, W.C.2. Tel.: Temple Bar 5361).  
Dean—A. R. C. Higham, TD, MB BS, FRCS.

The inst., which was formed in 1946 and approved for recog. as a federated inst. of the federation in May 1957, is associated with St. Peter's, St. Paul's and St. Philip's Hosps. Comprehensive instructn. given in wards, out-patient depts., operating theatres, labs., etc., throughout yr.; fee, 10 gs. per month. Week-end courses for higher exam. candidates are held at frequent intervals; fee, 5 gs. and, by invitation to sr. registrars and jr. consultants, no fee. Demonstrations in co-operation with Assocn. of Clin. Pathologists from time to time. Lectures and demonstrations of clin. and lab. material are given in venereal diseases; fee, 12 gs. per month. Week-end courses in co-operation with members of the Med. Soc. for Study of Venereal Diseases, at intervals; fee, 5 gs. per course. In winter

months a series of lecture discussions on urol. subjects of interest to whole profession held on Wed. evgs. at 5 p.m.; no fee. Also clin. evgs. on selected subjects, by invitation, no fee. Limited numbers of clin. assts. apptd. to individual surgeons for personal tuition from time to time, and also res. assts. Library and reading-room.

PUBLICATION. *Prospectus*.

### THE YEAR 1959

STUDENT NUMBERS, 1959-60. (See also 'Student Numbers', p. 1083.)

Full-Time	Part-Time	Total
10 m., — w.	131 m., 2 w.	143

[Information compiled as at 6/9/60]

## LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE

Incorporating the Ross Institute

Founded 1924

Postal Address: Keppel Street (Gower Street), London, W.C.1, England

Cables and Telegrams: Hygower, Westcent, London

Telephones: Museum 3041; Langham 7621

PATRON—H.R.H. THE DUKE OF EDINBURGH, KG, KT, GMBE, Hon. LLD *Wales & Edin.*, Hon. DSc *Delhi*, FRs

CHAIRMAN OF THE COURT OF GOVERNORS—Sir COSMO PARKINSON, GCMG, KCB, OBE, MA *Oxon.*

# LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE 1089

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LIBRARIAN—V. J. GLANVILLE

REGISTRAR—Mrs. M. GLADYS YOUNG

## APPOINTED AND RECOGNIZED TEACHERS

[†=Part-Time]

### Applied Physiology

Crowden, G. P., OBE, TD, DSc Prof.  
Thomson, M. L., BSc MB ChB *Glas.*,  
PhD Reader

### Bacteriology and Immunology

..... Prof.  
Fulton, F., DM *Oxon.* (Virol.) Prof.  
Meynell, Mrs. Elinor W., BA MB BCh  
BAO *Dub.*, DipBact Sr. Lectr.  
Walker, Mrs. Jacqueline I. J., PhD  
Dir., Sub-Dept. of Med. Mycol.

### Biochemistry

Birkinshaw, J. H., DSc *Leeds*, FRIC Prof.  
Smith, G., MSc *Manc.*, FRIC Reader  
Sr. Lectr.

### Clinical Tropical Medicine

Woodruff, A. W., MD *Durh.*, PhD, FRCP Wellcome Prof.  
Bell, S., MD *Durh.*, MRCPed Sr. Lectr.

### Entomology

Bertram, D. S., PhD *Glas.* Prof.  
Busvine, J. R., PhD DSc Reader  
Laurence, B. R., BSc PhD Reader  
Lectr.

### Human Nutrition

Platt, B. S., CMG, MSc MB ChB  
PhD *Leeds* Prof.

Medical Mycology, see Bacteriol.

### Medical Statistics

Hill, A. B., CBE, PhD DSc, FRS Prof.  
Reid, D. D., MD *Aberd.*, PhD DSc,  
MRCP (Epidemiol.) Prof.  
Irwin, J. O., MA ScD *Camb.*, DSc †Lectr.  
Martin, W. J., PhD DSc †Lectr.  
Armitage, P., MA *Camb.*, PhD †Lectr.

### Occupational Health

Schilling, R. S. F., MD DPH Prof.  
Wood, C. H., SM *Harv.*, MB BS DPH  
Sr. Lectr.

### Parasitology and Helminthology

Garnham, P. C. C., MD DSc DPH Prof.  
Buckley, J. J. C., DSc *Dub.* Courtauld Prof.  
Le Roux, P. L., DSc *Edin.* Reader  
Ormerod, W. E., BA BM BCh *Oxon.* Sr. Lectr.

Physiology, see Appl. Physiol,

### Public Health

Walton, W. S., GM, MD BHy DPH *Durh.* Prof.  
Hinds, S. W., MD Reader  
Maule, H. G., MA *Camb.*, PhD Sr. Lectr.  
Don, G. G., JP Sr. Lectr.

### Tropical Hygiene, Ross Institute of

Macdonald, G., CMG, MD DTM *Liv.*,  
DPH, FRCP Prof., Dir.  
Waddy, B. B., DM *Oxon.*, DPH Reader  
Davidson, G., BSc Sr. Lectr.

## ADMINISTRATIVE AND OTHER STAFF

Accountant : F. J. Ollive. Personal Services Officer : Kathleen M. Shaw, MBE.

## GENERAL INFORMATION

The sch. represents the union of the Lond. Sch. of Trop. Med., which had operated since 1899, with the univ. teaching depts. for the dipl. in pub. health. In 1934 the Ross Inst. of Trop. Hyg. (founded 1926) was incorporated with the sch.

The sch. was built and equipped with \$2,000,000 provided by the Rockefeller Foundation on the understanding that the British govt. would make adequate grants for staffing and maintenance. Charter of incorporation secured in 1924 and

supplemental charters in 1931, 1934 and 1947. The sch. is recog. by the univ. in the facs. of sci. and med.

**CONSTITUTION.** The charter of incorporation provides for the constitution of a court of governors, a bd. of management (the governing body of the sch.) and a sch. council representative of the teaching staff.

**INCOME (1958-59).** Total income, £271,638 (interest on investments and bank deposits, 4.6 per cent.; donations and subscriptions, 5.7 per cent.; univ. court grant, 77.2 per cent.; students' fees, 4.9 per cent.; contributions for services rendered, 1.2 per cent.; res. grants and contracts, 5.6 per cent.; other sources, 0.8 per cent.).

**DEPARTMENTS.** 11 main depts. There are also a sub-dept. of med. mycol., a library, and, at Winches Farm, St. Albans, a field res. and animal breeding strn. Dept. of clin. trop. med. works in close assocn. with Hosp. for Trop. Diseases, 4 St. Pancras Way, N.W.1.

**LIBRARY.** 40,000 bound vols. and over 30,000 unbound pamphlets; 360 books of 17th-18th cents. on trop. diseases and hyg., and special Reece collection of 340 vols. on smallpox and vaccination; series of annual med. and sanitary reports from various countries in the Commonwealth.

**LOCATION.** All courses are given at premises in Keppel St. which have excellent labs., res. and class-rooms and lecture-theatres.

**POSTGRADUATE DIPLOMA AND CERTIFICATE COURSES.** Courses are offered leading to the following qualifs. of the Univ. of London and/or the conjoint bd. of the Royal Coll. of Physicians & Royal Coll. of Surgeons.

**Dipl. in Pub. Health (Lond.)** course for qualified med. practitioners, 9 mos. from Oct. Scholps. available. Fee: 70 gs.

**Dipl. in Indust. Health (R.C.P.&S.)** course, whole-time, 11 wks. from Oct. to Dec., for those who have already taken a DPH course. It will also be available to registered med. practitioners who require an intensive trg. in the practice of indust. med. Applicns. to be recd. not later than preceding 1st April. No. of places strictly limited. Fee: 30 gs.

**Dipl. in Bacteriol. (Lond.)** course for grads. in med., sci., vet. sci., pharm., and suitably qualified non-grads., 9 mos. from Oct. Applicns. to be recd. not later than preceding 1st March. No. of places strictly limited. Fee: 70 gs.

**Dipl. in Trop. Med. & Hyg. (R.C.P.&S.)** course for qualified med. practitioners, 5 mos., commencing Oct. and March. Scholp. available. Fee: 40 gs.

**Cert. and Dipl. in Trop. Med. & Hyg. (Lond.)** course for qualified med. practitioners, 9 mos. from Oct. Candidates for final dipl. course must have had 12 mos.' experience of med. practice in a trop. country. Fee: 70 gs. for whole course; 40 gs. for pt. I only.

**Cert. and Dipl. in Applied Parasitol. & Entomol. (Lond.)** course for those with acceptable qualifs. in med., vet. med., vet. sci., or sci., 9 mos. from Oct. Applicns. to be recd. not later than preceding 1st April. No. of places strictly limited. Fee: 70 gs. for whole course; 40 gs. for pt. I only.

**Exemptions.** There are interrelated exemptions between the DTM&H (Lond.), the DTM&H (R.C.P.&S.) and the DAP&E (Lond.). Details from registrar of the sch.

**OTHER COURSES, not leading to a qualif.** *Short Course in Statistical Methods applied to Medicine & Epidemiology.* Begins in Jan. each yr. and lasts for approx. 4 mos. Lectures and practical demonstrations on 2 whole days wkly. Persons without a med. qualif. eligible to apply. Applicns. to be recd. not later than preceding 1st Nov. Fee: 15 gs.

*Short Course in Medical Administration.* Of sp. interest to exec. med. officers of regional hosp. bds. and others in admin. field of pub. health. Non-med. persons eligible to apply. Commences beginning of May each yr. and lasts 8 wks. Fee: 30 gs.

*Short Course in Environmental Control* of 10 wks.' duration. Held once a yr., commencing about the beginning of Oct. Intended primarily for health inspectors from abroad. Fee: 26 gs.

*Course in Malaria Control for Laymen*, for non-medical men and women proceeding to tropics. Held once a yr. and lasts about 5 days. No fee.

**RESEARCH DEGREES.** Facilities for res. for MSc and PhD. Lab. fee, 30 gs. p.a.

A SCHOOL ASSOCIATION of old students has been formed. Members regularly receive *Annual Report*.

**STUDENT HEALTH SERVICE.** The sch.'s students may join the University Coll. student health assocn. Benefits incl. clin. consultations and psychiatric, ophthalmic and dent. treatment.

**THE BUREAU OF HYGIENE AND TROPICAL DISEASES**, governed by a cttee. apptd. by the sec. of state for the colonies, is housed in sch. premises and publishes monthly the *Bulletin of Hygiene* and *The Tropical Diseases Bulletin*. Annual sub. to each, £5.

**PUBLICATIONS.** *Memoir Series*; *Annual Report*; annual *Syllabus of Courses*; *Journal of Helminthology*, 4 pts. a yr. (vol. 33), price 50s. a vol.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Wellcome Foundation, £14,000 for purchase and installation of electron microscope.

**MAJOR BUILDING DEVELOPMENTS.** Bldgs. completed: lecture theatre now named 'Manson Theatre'.

# LONDON SCHOOL OF HYGIENE AND TROPICAL MEDICINE 1091

CONFERMENT OF TITLE OF PROFESSOR. F. Fulton (virol.); D. D. Reid (epidemiol.).

RESIGNATIONS. Dr. J. Knowelden, apptd. to chair of prev. med. and pub. health, Sheff.; Dr. J. R. Brown, apptd. to chair of physiol. hyg., Tor.; Dr. J. Turk, to Natl. Inst. for Med. Res.; Dr. F. D. Schofield, apptd. as asst. dir. Med. Ser., Papua & New Guinea; Dr. P. W. R. Morpurgo.

DEATH. C. C. Barnard (librarian).

## Statistics

### STUDENT NUMBERS, 1959-60 \*

	<i>Full-Session</i>	<i>Half-Session</i>
Men . . .	96	95
Women . . .	24	13
Total	108	

\* These figures relate only to students attending courses leading to a qualif. The total number of students during the academic yr., including those attending courses of less than 3 wks., was 553 (425 m., 128 w.).

Distribution by Faculties. *Med.*, 188; *sci.*, 46. Total: 234.

*Included in the figures above are :—*

Postgraduate students working for a higher degree, 33.

Students from other countries, 152. (Countries from which largest numbers came: India, 31; Pakistan, 25).

DEGREES AWARDED (by Univ. of London) (1958-59). PhD (all facs.), 10.

DIPLOMAS (1958-59). DAP&E, 5; DipBact, 11; DPH, 60; DTM&H (Lond.), 2; DTM&H (R.C.P.&S.), 94; DIH (R.C.P.&S.), 20.

CERTIFICATES AWARDED (1958-59). CAP&E, 7; CTM&H, 1.

[Information compiled as at 15/9/60]

## LISTER INSTITUTE OF PREVENTIVE MEDICINE

Founded 1891

*Postal Address*: Chelsea Bridge Road, London, S.W.1, England

*Cables and Telegrams*: Bacteriology, Knights, London

*Telephone*: Sloane 2181

CHAIRMAN OF GOVERNING BODY—Sir HENRY H. DALE, OM, GBE, MD, FRCP, FRS

DIRECTOR—Professor A. A. MILES, CBE, MA MD *Camb.*, FRCP

SECRETARY—S. A. WHITE

## APPOINTED AND RECOGNIZED TEACHERS

Dolby, D. E., PhD	(Biochem.)	Morgan, W. T. J., DSc PhD, FRIC, FRS	(Biochem.) Prof.
Kekwick, R. A., DSc	(Chem. Biophys.) Reader	Mourant, A. E., MA DPhil DM <i>Oxon.</i> , MRCP	(Pathol.)
Macfarlane, Marjorie G., DSc PhD	(Biochem.)	Standfast, A. F. B., MA DipBact	(Bacteriol.)
Maycock, W. d'A., MBE, MD <i>McG.</i>	(Pathol.)	Stocker, B. A. D., MD	(Microbiol.)
McClellan, D., MB BS	(Bacteriol.)	Weitz, B. G. F.	(Pathol.)
Miles, A. A., CBE, MA MD <i>Camb.</i> , FRCP	(Exper. Pathol.) Prof.	Whelan, W. J., DSc PhD	(Chem.)

## GENERAL INFORMATION

Founded in 1891 for res. into causation, prevention and treatment of diseases of men and animals. Not in receipt of U.G.C. grants. Limited accomm. available for approved res. by students of

both sexes, usually without fees. Res. studentships advertised as vacancies occur.

LIBRARY. About 10,000 vols., primarily for use of inst. workers.

## THE YEAR 1959

## Statistics

## STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	13	1
Women . .	3	—
Total	16	

Distribution by Faculties. *Med.*, 3 ; *sci.*, 14.  
Total : 17.

All the above are postgraduate students.

New admissions, 4 (incl. above).

DEGREES AWARDED (by Univ. of London)  
(1958-59). PhD, 2 ; DSc, 1.

# INSTITUTIONS WITH RECOGNIZED TEACHERS

[These are public educnl. instns. not in receipt of U.G.C. grants (see p. 964) at which the univ. has recognized certain teachers giving courses for internal degrees or dipl. of the univ. Except in the case of Goldsmiths' Coll., this is the only connecting link between the instn. and the univ.]

[Information compiled as at 18/8/60]

[(a) Principal ; (b) subjects in which recognized ; (c) number of full-time internal students (session 1958-59)\*]

1. UNIVERSITY OF LONDON: GOLD-SMITHS' COLLEGE, New Cross, London, S.E.14 (tel.: Tideway 2266). Incorporated in the univ. *Warden, and Principal of the Training Dept.*—D. R. Chesterman, MSc PhD ; *Registrar*—G. C. Wood, OBE, MA. (c) 29.

*Training Department. Vice-Principals*—Margery K. James, MA BLitt DPhil Oxon., and E. A. Wheeler, OBE, MSc. *Recog.* by Ministry of Educn. as a trg. coll. Ordinary course, 2 yrs.; course for science teachers, 3 yrs.; for BA (general) or BSc (general) degree, 4 yrs.; postgrad. course, 1 yr. *Lectrs.*—55. Hostels provide accomm. for nearly all the women and some of the men students. For *recog. Teachers see below* (Educn., Geog., Music).

2. BATTERSEA COLLEGE OF TECHNOLOGY, Battersea Park Rd., London, S.W.11 (tel.: Macaulay 1031). (a) D. M. A. Leggett, MA PhD DSc. (b) Chem., Engin. (Civil, Electr., Mech. and Chem.), Maths., Metall., Music, Phys. (c) 1031.

3. CHELSEA COLLEGE OF SCIENCE AND TECHNOLOGY, Manresa Rd., Chelsea, S.W.3 (tel.: Flaxman 5747). (a) N. M. Lightfoot, MA. (b) Biol., Bot., Chem., Geol., Maths., Pharm., Phys., Physiol., Zool. (c) 987.

4. COLLEGE OF ESTATE MANAGEMENT, St. Alban's Grove, London, W.8 (tel.: Western 1546). (a) R. Jardine Brown, LLB MA Glas., DLitt Edin. (b) Subjects for the degree in estate management. (c) 163.

5. EAST MALLING RESEARCH STATION, East Malling, Kent (tel.: West Malling 3033). *Director*—F. R. Tubbs, CBE, DIC, MSc PhD, FLS. (b) Appl. Bot., Pomol., Statistics, Plant Physiol., Chem. (in relation to fruit-growing), Plant Pathol., Entomol. For postgrad. res. students only. (c) 9.

6. JEWS' COLLEGE, 11 Montagu Place, London, W.1 (tel.: Paddington 2041-2). (a) Rabbi I. Epstein, DLit PhD. (b) Hebrew, Semitics. (c) 30.

7. MARIA GREY COLLEGE, 300 St. Margaret's Rd., Twickenham; 11 The Avenue, Brondesbury, London, N.W.6 (tel.: Popesgrove 2660 and Willesden 4121). (a) Beatrice E. Deayton, MA. (b) Educn. (c) 22.

8. NATIONAL INSTITUTE FOR MEDICAL RESEARCH, The Ridgeway, Mill Hill, London, N.W.7 (tel.: Mill Hill 3666). Controlled by the Med. Res. Council. *Director*—Sir Charles Harington, PhD Edin., MA ScD Camb., FRS. (b) Bacteriol., Chem., Biochem., Chem. Pathol., Immunol. and Hyg. For res. students only. (c) 15.

9. NORTHAMPTON COLLEGE OF ADVANCED TECHNOLOGY, St. John St., London, E.C.1 (tel.: Clerkenwell 7521-5). (a) J. S. Tait, PhD Glas., BSc(Eng). (b) Engin. (Civil, Mech., Electr.), Maths., Metall. (c) 623.

10. NORTHERN POLYTECHNIC, Holloway Rd., London, N.7 (tel.: North 1686). (a) T. J. Drakeley, CBE, DSc, FRIC. (b) Bot., Chem., Geol., Zool., Maths., Phys. (c) 413.

\* Only the totals of those students pursuing internal degree or dipl. courses of the Univ. of London are given. The instns. also provide other courses.

11. **ROTHAMSTED EXPERIMENTAL STATION**, Harpenden, Herts. (tel. : Harpenden 4671). *Director*—F. C. Bawden, MA *Camb.*, FRS. (b) Sci. (in its applicn. to agric.). For res. students only. (c) 28.

12. **ROYAL ACADEMY OF MUSIC**, Marylebone Rd., London, N.W.1 (tel. : Welbeck 5461). (a) Sir Thomas Armstrong, MA DMus, FRM. (b) All branches of music, theoretical and practical. (c) 18.

13. **ROYAL COLLEGE OF MUSIC**, Prince Consort Rd., S. Kensington, London, S.W.7 (tel. : Kensington 3643). *Director*—K. Falkner, FRM. (b) All music subjects. (c) 13.

14. **SIR JOHN CASS COLLEGE**, Jewry St., Aldgate, London, E.C.3 (tel. : Royal 8321). (a)

A. M. Ward, PhD DSc, FRIC. (b) Bot., Chem., Geol., Maths., Metall., Phys. (c) 512.

15. **TRINITY COLLEGE OF MUSIC**, Mandeville Place, London, W.1 (tel. : Welbeck 5773). (a) W. Greenhouse Allt, MusD. (b) All subjects for the musical and arts (music) degrees of London and other univs. (c) 16.

16. **WEST HAM COLLEGE OF TECHNOLOGY**, Romford Rd., Stratford, London, E.15 (tel. : Maryland 6075). (a) G. Bulmer, MA PhD, FRIC. (b) Chem., Engin. (Chem., Civil, Electr., Mech.), Maths., Phys. (c) 156.

17. **WOOLWICH POLYTECHNIC**, Thomas St., Woolwich, London, S.E.18 (tel. : Woolwich 2856). (a) H. Heywood, DSc(Eng). (b) Engin. (Civil, Electr. and Mech.), Maths., Phys., Chem. (c) 415.

## RECOGNIZED TEACHERS

(The number in brackets after each name indicates the instn. listed on p. 1093 or p. 1094 to which the teacher is attached.)

### Bacteriology

Andrewes, C. H., MD, FRCP, FRS (8)

### Biochemistry

Harington, Sir Charles, PhD *Edin.*, MA ScD *Camb.*, FRS (8)  
 Pirie, N. W., MA, FRS (11)  
 Short, Eileen I., BPharm PhD (3)

### Botany

Berkeley, C. J. A., BSc (3)  
 Mer, C. L., DIC, BSc PhD (14)  
 Muir, A., PhD *Edin.*, BSc (11)  
 Smithson, Elizabeth, PhD *Leeds* (10)  
 Tubbs, F. R., CBE, DIC, MSc PhD, FLIS (5)  
 Turner, E. R., MA PhD *Camb.* (3)  
 Watson, D. J., PhD *Camb.* (11)

### Chemistry

Allen, F. L., MSc PhD, FRIC (16)  
 Arcus, C. L., PhD DSc (2)  
 Beckett, A. H., PhD DSc (3)  
 Casy, A. F., PhD (3)  
 Cumper, C. W. N., PhD *Camb.* (17)  
 Dippy, J. F. J., DSc *Wales* (3)  
 Drakeley, T. J., CBE, DSc PhD, FRIC (10)  
 Finar, I. L., PhD (10)  
 Gerrard, W., DSc PhD, FRIC, FIM (10)  
 Goddard, D. R., BSc PhD (3)  
 Hebdon, E. A. W., BSc (3)  
 Henshall, T., MA DPhil *Oxon.* (14)  
 Houston, A. H. J., MSc PhD (2)  
 Hughes, S. R. C., PhD (3)  
 James, A. M., DPhil *Oxon.* (3)  
 Jeffery, G. H., PhD (17)  
 King, H. J. S., PhD DSc, FRIC (10)  
 Leicester, J., PhD (9)  
 Lindsey, A. J., DSc PhD, FRIC (14)  
 McGhie, J. F., BSc PhD (3)

Ross, W. A., PhD (3)  
 Rudge, E. A., MSc PhD (16)  
 Salmon, J. E., PhD (2)  
 Smith, C. G., BSc PhD, FRIC (10)  
 Vahrman, M., PhD, FRIC (9)  
 Vogel, A. I., DIC, DSc (17)  
 Walker, J., DSc *Oxon.* (8)  
 Ward, A. M., PhD DSc, FRIC (14)

### Education

Kaye, M., MA PhD (1)

### Engineering, Chemical

Tailby, S. R., PhD (2)  
 Thomas, W. J., PhD, FRIC (2)

### Engineering, Civil and Mechanical

Beaufoy, L. A., PhD (4)  
 Carnegie, W., PhD *Birm.* \* (2)  
 Franklin, H. W., MA *Camb.* (9)  
 Heywood, H., DSc(Eng) (17)  
 Levy, J. C., MS *Ill.*, BSc(Eng) (9)  
 Oakden, J. C., MA *Camb.*, MScTech *Manc.* (9)  
 Oliver, H. C., BSc(Eng) (16)  
 Robertson, S. A., BSc(Eng) BCom (2)  
 Scott, F. C., BSc(Eng) (9)  
 Wajda, R. L., DipIng *Lwow* (2)  
 Walker, J., MSc *Manc.* (17)

### Engineering, Electrical

Freeman, G. F., MSc(Eng) (17)  
 House, H., PhD (9)  
 Lovering, W. F., MSc *Birm.* (2)  
 Mann, H. C., BSc(Eng) (2)  
 Soper, P. F., PhD (9)  
 Tait, J. S., PhD *Glas.*, BSc(Eng) (9)  
 Widdis, F. C., BSc(Eng) (9)

**Entomology**

- Massee, A. M., OBE, DSc (5)  
 Potter, C., DIC, PhD DSc (11)

**Estate Management**

- Adkin, B. C., MA *Camb.*, BSc (Agric. & For.) (4)

- Burke, G. L., MC, MSc (Town & Country Planning) (4)

- Chapman, D. H. (4)  
 Lawrance, D. M., BSc (Engl. Law relating to Land) (4)

**Geography**

- Clayton, K. M., MSc *Sheff.*, PhD (14)  
 Yates, E. M., MSc PhD (14)

**Geology**

- Fleet, W. F., MSc PhD (3)  
 Prentice, J. E., PhD (14)

**Horticulture**

- Rogers, W. S., MA *Camb.*, DSc (5)

**Mathematics**

- Arscott, F. M., MSc PhD (2)  
 Geary, A., MA *Camb.*, MSc (9)  
 Gillies, A. W., PhD (9)  
 Godfrey, D. E. R., MSc PhD (17)  
 Ludlam, A. E., MSc *Birm.* (3)  
 Martin, E. S., BSc PhD (10)  
 Nutkins, Mary A., MSc PhD (10)  
 Spain, B., MA MSc *Dub.*, PhD *Edin.* (14)  
 Stein, Elise, PhD *Vienna* (3)

**Metallurgy**

- Derry, L. W., BSc *Birm.*, MScTech *Manc.* (2)  
 Houseman, D. H., MA MScTech *Sheff.*, PhD *Camb.* (14)  
 Kingswood, V. S., MSc(Eng) (2)  
 Shreir, L. L., PhD (2)

**Music**

- Andrews, H. K., DMus (13)  
 Brockless, B. G., BMus (2)  
 Coates, H. J., MA *Camb.*, PhD (15)  
 Cooke, A. A., BA MusD *Camb.* (15)  
 Dunwell, W., BA *Leeds*, BMus *Durh.*, FRCO (15)  
 Durrant, F. T., BMus *Durh.*, DMus, FRCO (12)  
 Jacob, G., DMus, FRCM (13)  
 Latham, P. M. S., MA BMus *Oxon.* (12)  
 Moule-Evans, D., DMus *Oxon.* (13)

- Orrey, L. G., BMus *Durh.*, FRCO (1)  
 Pritchard, A. J., DMus *Durh.* (12)  
 Regan, L. W. A., BMus *Oxon.*, FRCO (12)  
 Sowerbutts, J. A., BMus, FRCO (12)  
 Thiman, E. H., DMus (12)  
 Watson, S., MA DMus *Oxon.* (13)  
 Webber, W. S. L., DMus, FRCO (13)

**Pharmaceutics**

- Bean, H. S., PhD (3)  
 Carless, J. E., BPharm MSc PhD *Manc.* (3)

**Physics**

- Barton, J. C., PhD (10)  
 Bate, A. E., PhD MSc, FIP (16)  
 Donovan, B., PhD (10)  
 Elton, L. R. B., MA *Camb.*, PhD (2)  
 Freeman, L. J., DIC, BSc PhD (3)  
 George, W. H., MSc PhD (3)  
 Humphry, R. H., MSc *Birm.*, FIP (14)  
 Longhurst, R. S., PhD (3)  
 Marsh, S., DSc *Wales*, PhD *Gött.* (2)  
 Pillow, Marjorie E., BSc PhD (10)  
 Smith, D. H., PhD (17)  
 Suddaby, A., MSc PhD (14)

**Physiology and Pharmacology**

- Edholm, O. G., MB BS BSc (8)  
 Feldberg, W. S., MA *Camb.*, MD *Berl.*, FRS (8)  
 Lockett, Mary F., PhD *Camb.*, MD (3)

**Plant Pathology**

- Bawden, F. C., MA *Camb.*, FRS (11)  
 Harris, R. V., DSc (5)

**Semitic Languages**

- Epstein, I., DLit PhD (6)  
 Wieder, N., DPhil *Würzburg* (6)  
 Zimmels, H. J., DrPhil *Vienna* (6)

**Statistics**

- Hoblyn, T. N., OBE, DipHort (5)  
 Yates, F., ScD *Camb.*, FRS (11)

**Zoology**

- Brown, Eleanor M., BSc PhD (3)  
 Butler, C. G., MA PhD *Camb.* (11)  
 Etherington, D., MSc (10)  
 Hentschel, C. C., MSc (3)  
 Parkes, A. S., CBE, ScD *Camb.*, DSc, FRS (8)  
 Rżóska, J., DPhil *Poznan* (14)  
 Sutton, Muriel F., PhD (3)



# VICTORIA UNIVERSITY OF MANCHESTER\*

Founded 1880 ; previously established as Owens College, 1851

Postal Address : Oxford Road, Manchester, 13, England

Telephone : Manchester, Ardwick 3333

VISITOR—H.M. THE QUEEN IN COUNCIL

CHANCELLOR—The Rt. Hon. THE EARL OF WOOLTON, CH, Hon. LL.D *Liv., Camb. & Manc.*, MA BSc

VICE-CHANCELLOR—Professor W. MANSFIELD COOPER, LL.M

PRO-VICE-CHANCELLORS—Professor W. SCHLAPP, MB ChB BSc PhD *Edin.*, MSc ; Professor R. PEACOCK, LittD *Leeds*, DPhil *Marburg*, MA *Leeds & Manc.*

CHAIRMAN OF COUNCIL—Sir E. RAYMOND STREAT, KBE

DEPUTY CHAIRMAN OF COUNCIL—L. P. SCOTT, BA *Camb.*

TREASURER—A. V. SYMONS, MA *Camb.*

DEPUTY TREASURER—R. B. BARCLAY, JP

REGISTRAR—VINCENT KNOWLES, MA

BURSAR—R. A. RAINFORD, MA

PRESENTER OF HONORARY GRADUANDS—Professor R. A. C. OLIVER, BEd PhD *Edin.*, MA *Edin. & Manc.*

LIBRARIAN—M. TYSON, MA PhD

## TEACHING STAFF

[† = Part-Time]

### Accounting

Murphy, G. W., JP, BA(Com), FCA Sr. Lectr.  
Sidebotham, R., BA(Com) †Lectr.  
Taylor, R. Y., BA(Admin) †Lectr.  
Hodge, Margaret A. T., BA *Lond.*, FCA Lectr.  
Jones, B. A., BA(Com) †Asst. Lectr.

### Adult Education, see Education

### Agricultural Economics

Thomas, W. J., MSc *Wales* Reader  
Fletcher, T. W., MSc *Leeds* Lectr.  
Furness, G. W., MSc *Leeds* Lectr.  
Gardner, T. W., PhD *R'dg.*, MA(Com) Lectr.  
Kempinski, T., MA *Camb.* Lectr.  
Marks, M., MA *Sheff.* Lectr.  
Perkins, R. J., BA *N.Staffs.* Asst. Lectr.

### American Studies

Cunliffe, M. F., MA BLitt *Oxon.*  
(Amer. Hist. & Instns.) Prof.  
Jones, M. A., MA DPhil *Oxon.*  
(Amer. Hist. & Instns.) Lectr.

Potter, A. M., MA *Wesleyan (Conn.)*,  
PhD *Col.* (Govt.) Lectr.  
Moore, G. H., MA *Camb.* (Amer. Lit.) Lectr.

### Anatomy and Histology

Mitchell, G. A. G., OBE, TD, MB ChM  
DSc *Aberd.*, MSc Prof., Dir. of Labs.  
Cooper, Eugenia R. A., DSc MD  
(Histol.) Reader  
Patterson, E. L., BSc MD (Anat.) Sr. Lectr.  
Ashley, G. T., BSc MD (Anat.) Lectr.  
Gray, E. D. (see also Radiol.) (Radiol. A.) Lectr.  
Dixon, A. D., BSc MDS *Belf.*, PhD  
(A. for Dental Students) †Lectr.  
Cregan, J. C. F., MB BS *Lond.*, FRCS  
(Appl. A.) Lectr.  
Kirkman, N. F., MD, FRCS (Appl. A.) †Lectr.  
Nicholson, W. A. B., BSc MB ChB,  
FRCS (Appl. A.) †Lectr.  
Wright, M. K., MSc MB BCh *Rand*  
(Exper. Neurol.) Lectr.  
Torr, J. B. D., MD Lectr.  
Shulman, S. S., MB ChB *Liv.*, FRCSEd Lectr.  
Seddon, G. B., MB ChB Asst. Lectr.  
Fisher, A. W. F., BSc MB ChB Asst. Lectr.  
Isbister, W. H., MB ChB Demr.

\* Member of the Association of Universities of the British Commonwealth

Schofield, W. N., BSc MB BCh *Wales*  
 Davies, R. P., MB ChB  
 Gould, W. M., MB ChB  
 Sutherland, Sheila D., MB ChB  
 Wint, A. S., MB BS *Lond.*

Demr.  
 Demr.  
 Demr.  
 Demr.  
 Demr.

Butler, R. D., BSc *Durh.*, PhD *S'ton.*

Asst. Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

**Arabic**, see Semitic Studies

# Architecture

Cordingley, R. A., MA, FRIBA

Prof., Dir. of Sch.

Buttle, D., MA PhD DipArch DipTP Sr. Lectr.

Thornley, D. G., BA Sr. Lectr.

Wood-Jones, R. B., BArch MA *Liv.*, PhD,  
 FSA Sr. Lectr.

Marsden, T. L., MA PhD DipTP Lectr.

Benson, E. S., MBE, MA DipTP, FRIBA Lectr.

Bell, J. A. M., BArch MCD *Liv.* Lectr.

Jenkins, F. I., BArch MA *Durh.*,  
 MS(Arch) *Ill.* Lectr.

Dearden, D. G., MA Lectr.

Berry, G. †Lectr.

Stutchbury, H. E., DipTP *Lond.*, BA Lectr.

Gibbon, W. A., MA (Professnl. Practice) †Lectr.

Harris, J. B., DipArch Lectr.

Broadbent, G. H., BA Lectr.

Archer, J. H. G. Lectr.

Malpass, J. C. L. (Life Drawing) †Sp. Instr.  
 2 Assts.

# Art, History of

White, J. E. C. T., PhD *Lond.* Pilkington Prof.

Sewter, A. C., BSc(Econ) *Lond.*, MA Sr. Lectr.

Rosenau, Helen, DrPhil *Hamburg*,  
 PhD *Lond.* Lectr.

Hawcroft, F. W., BA *Lond.* Lectr.

**Astronomy**, see Physics

# Botany

Wardlaw, C. W., PhD DSc *Glas.*,

Hon. DSc *McG.*, MSc

• George Harrison Prof., Dir of Exper.  
 Grounds

Colhoun, J., BSc BMagr *Belf.*, PhD

DSc *Lond.*, FLS

(Cryptogamic B.) Barker Prof.

Calder, Mary G., BSc PhD *Glas.* Sr. Lectr.

Warne, L. G. G., MSc PhD *Brist.*

(Hortic.) Sr. Lectr., Asst. Dir. of Exper.  
 Grounds

Dormer, K. J., BSc PhD *Lond.* Sr. Lectr.

Allsopp, A., MSc PhD

(Cryptogamic B.) Sr. Lectr.

Simon, E. W., MA DPhil *Oxon.* Sr. Lectr.

Wylie, Ann P., MSc *N.Z.* (Cytol.) Lectr.

Hartshorne, J. N., BSc *Wales*, PhD *Camb.*

(Genetics) Lectr.

Pecket, R. C., BSc PhD *Leeds* Lectr.

Cutter, Elizabeth G., BSc *St. And.*, PhD Lectr.

Park, D., MSc PhD Lectr.

Newton, P., BSc PhD *Nott.* Asst. Lectr.

Tallis, J. H., BSc *Lond.*, PhD *Wales* Asst. Lectr.

# Celtic

Evans, E., MA *Wales*

Lectr.

**Chemistry**, see also Physiol. and Technology

Gee, G., CBE, ScD *Camb.*, MSc, FRS

Sir Samuel Hall Prof.

Birch, A. J., DPhil *Oxon.*, MSc *Syd.* &  
*Manc.*, FRS (Org. C.) Prof.

Fairbrother, F., DSc, FRIC  
 (Inorg. C.) Prof., Asst. Dir. of Chem.  
 Labs.

Burkhardt, G. N., MSc PhD, FRIC Sr. Lectr.

Warhurst, E., MSc PhD Sr. Lectr.

Baxendale, J. H., DSc Sr. Lectr.

Skinner, H. A., BA BSc DPhil *Oxon.* Sr. Lectr.

Barker, G. R., BSc PhD *Lond.*  
 (Biol. Chem.) Sr. Lectr.

Higginson, W. C. E., MA DPhil *Oxon.*  
 Sr. Lectr.

Campbell, I. G., BSc PhD *Lond.*  
 (Radiochem.) Sr. Lectr.

Herbert, J. B. M., MSc Lectr.

Quibell, T. H. H., MA PhD *Camb.* Lectr.

Bu'Lock, J. D., BA PhD *Camb.* Lectr.

Pritchard, H. O., MSc PhD Lectr.

Smith, G. F., PhD *St. And.*, MSc Lectr.

Allen, G., BSc PhD *Leeds* Lectr.

Smith, H., MA *Oxon.* & *Camb.*, PhD *Camb.*  
 Lectr.

Mills, O. S., BSc *Liv.* Lectr.

Smith, D. C. C., BSc PhD Lectr.

Colclough, R. O., BA BSc *Dub.*, PhD *Leeds*  
 Lectr.

Watkinson, J. G., BSc PhD *Lond.* Lectr.

Lumb, G. A., BSc *Lond.*, PhD (Med. C.) Lectr.

Jevons, F. R., MA PhD *Camb.* (Biol. C.) Lectr.

Wood, G. C., BSc PhD *Leeds* (Biochem.) Lectr.

Bruce, J. M., BSc *Lond.*, MSc PhD *Leeds* Lectr.

Paddock, N. L., BA *Camb.* Lectr.

Thompson, A., BSc *Lond.*, BSc PhD *Nott.*  
 (Inorg. C.) Lectr.

Rickards, R. W., BSc *Syd.* Asst. Lectr.

Wynn, C. H., BSc PhD *Wales*  
 (Biochem.) Asst. Lectr.

Farrar, Mrs. Kathleen R., BSc PhD *Lond.* Demr.

Jenkins, Rev. H. O., PhD DSc *Wales*,  
 DPhil *Oxon.* †Demr.

Dunstan, Sonia, MSc PhD Demr.

**Classics**, see also Theology

Seiple, W. H., PhD *Camb.*, MA *Belf.*

& *Manc.* (Lat.) Hulme Prof.

Westlake, H. D., MA *Camb.* & *Manc.*  
 (Gk.) Hulme Prof.

Zuntz, G., DrPhil *Marburg*, FBA  
 (Hellenistic Gk.) Reader

Huxley, H. H., MA *Camb.* (Lat.) Sr. Lectr.

Bluck, R. S., MA *Camb.*, PhD *Edin.*  
 (Gk.) Sr. Lectr.  
 Marlow, A. N., MA *Lond.* (Lat.) Sr. Lectr.  
 Leahy, D. M., MA *Oxon.* Lectr.  
 Wilson, A. J. N., MA DPhil *Oxon.* Lectr.  
 Bradley, D. R., MA *Durh.* Lectr.  
 Healy, J. F., MA PhD *Camb.* Lectr.  
 Knowles, V., MA †Sp. Lectr.  
 McCail, R. C., MA *St. And.* Asst. Lectr.  
 Macdowell, D. M., MA *Oxon.* Asst. Lectr.  
 Brandwood, L., BA PhD *Lond.* Asst. Lectr.

### Coptic

Jelinková, Eve A. E., PhilCand *Prague*,  
 DipenLangOrAnc Dipld'ÉtSup *Paris* Lectr.

### Crystallography

### Dentistry, see below

### Economics, see also Agricultural Economics

Carter, C. F., MA *Camb.*  
 (Pol. Econ.) Stanley Jevons Prof.  
 Redford, A., MA PhD (Econ. Hist.) Prof.  
 Williams, B. R., BA *Melb.*, MA *Adel.*  
 Robert Ottley Prof.  
 Johnston, J., BComSc *Belf.*, PhD *Wales*  
 (Econometrics) Prof.  
 Mars, J., MA *Brist.*, DrRerPol *Vienna*,  
 MCom *Birm.*, BLitt *Oxon.* Reader  
 Willan, T. S., MA BLitt DPhil *Oxon.*  
 (Hist.) Reader  
 Stark, W., DrRerPol *Hamburg*, DrJur *Prague*,  
 MA *Edin.*  
 (on leave) (Hist. of Econ. Thought)  
 Reader  
 Lomax, K. S., BSc MA(Admin)  
 (Econ. Stats.) Reader  
 Martin, K., MA *Oxon.*, DrPhil *Fran.*  
 (Internat. Econ.) Sr. Lectr.  
 Chaloner, W. H., MA PhD  
 (Mod. Econ. Hist.) Sr. Lectr.  
 Henderson, W. O., MA *Camb.*, PhD *Lond.*  
 (Internat. Econ. Hist.) Sr. Lectr.  
 Turner, H. A. F., BSc(Econ) *Lond.*  
 (Indust. Relns.) Sr. Lectr.  
 Morgan, D. J., BSc(Econ) *Lond.* Sr. Lectr.  
 Coppock, D. J., BA(Econ) Lectr.  
 Musson, A. E., MA (Hist.) Lectr.  
 Perkin, H. J., MA *Camb.* (Soc. Hist.) Lectr.  
 Green, E. R. R., BA BLitt *Dub.*,  
 DPhil *Oxon.* (Hist.) Lectr.  
 Knapp, J. A., MA *Camb. & Oxon.*  
 (on leave) Lectr.  
 Peters, W., MA *Aberd.*, BPhil *Oxon.* Lectr.  
 Heath, J. B., MA *St. And.* (on leave) Lectr.  
 Lewis, J. P., BSc *Wales* Lectr.  
 Savosnick, K. M., FilKand  
 FilLic *Stockholm* Lectr.  
 Blaug, M., BA N.Y., MA PhD *Col.*  
 (Hist. of Econ. Thought) Lectr.  
 Farnie, D. A., MA (Econ. Hist.) Lectr.

Crossley, J. R., BSc(Econ) *Lond.*  
 (Econ. Stats.) Asst. Lectr.  
 Nicholson, M. B., BA *Camb.*  
 (on leave) Asst. Lectr.  
 Marquand, Mrs. Judith M., BA *Oxon.*  
 Asst. Lectr.

### Education, see below

### Education of the Deaf, see Education, below

### Egyptology

Fairman, H. W. †Sp. Lectr.

### Engineering, see also Technology

Diamond, J., BSc *Lond.*, MSc *Camb. &*  
*Manc.*, MIMechE (Mech. E.) Beyer Prof.  
 Hall, W. B., BSc(Eng) *Lond.* (Nuclear E.) Prof.  
 Horne, M. R., MA PhD ScD *Camb.*  
 (Civil E.) Prof.  
 Rowe, P. W., BSc *Brist.*, PhD *St. And.*,  
 DSc (Soil Mechanics) Reader  
 Mathieson, R., BSc *Lond.*, PhD *Glas.*  
 Clifton Sr. Lectr., Asst. Dir. of Engin.  
 Labs.  
 Gibson, J. E., MSc PhD *Durh.* Sr. Lectr.  
 Annand, W. J. D., BSc(Eng) *Glas.* Sr. Lectr.  
 Alderman, J. K., MSc PhD Lectr.  
 Edwards, F. J., MSc Lectr.  
 Livesey, J. L., DIC, BSc PhD Lectr.  
 Buckingham, F., BSc *Lond.*, MICE †Sp. Lectr.  
 Chisnell, R. F., MSc *Lond.*, PhD  
 (Maths. & Engin.) Lectr.  
 Morgan, P. G., BSc(Eng) *Lond.* Lectr.  
 Constantine, T., BSc(Eng) *Lond.*, PhD Lectr.  
 Neville, A. M., MSc(Eng) PhD *Lond.*  
 (on leave) Lectr.  
 Price, P. H., BSc PhD *Sheff.* Lectr.  
 Derrington, M. G., BSc *St. And.* Lectr.  
 Cheers, F., MA *Camb.* Lectr.  
 Williams, A., BScTech Lectr.  
 Stebbings, J., BSc *Lond.* Lectr.  
 Jackson, J. D., BSc Lectr.  
 Tanner, R. I., BSc *Brist.* Lectr.  
 Jennings, A., MSc (Aircraft Structures) Lectr.  
 Bryan, E. R., MSc(Eng) PhD *Lond.* Lectr.  
 Montague, P., BSc *Leeds* Lectr.  
 Littlejohn, W. G., MSc (Nuclear E.) Lectr.  
 Harris, M. J., BSc *Birm.* Asst. Lectr.  
 Baines, B. H., BSc(Eng) *Lond.* Asst. Lectr.

**Engineering, Electrical, see also Technology**

Williams, F. C., OBE, DPhil *Oxon.*, DSc,  
 MIEEE, FRS  
 Edward Stocks Massey Prof. of Electro-  
 Technics  
 Kilburn, T., MA *Camb.*, PhD DSc  
 (Computer E.) Prof.  
 Cooper, R., MSc PhD Sr. Lectr.  
 Brooker, R. A., BSc *Lond.*, MA *Camb.*  
 (Theory of Computing) Sr. Lectr.  
 Litting, C. N. W., BSc PhD Sr. Lectr.  
 Laithwaite, E. R., MSc PhD Sr. Lectr.  
 Edwards, D. B. G., MSc PhD Sr. Lectr.  
 Hoffman, G. R., BSc *St. And.*, PhD Sr. Lectr.

Piggott, L. S., MSc(Eng) *Lond.*

(also Tutor) Lectr.

Grimsdale, R. L., MSc PhD Lectr.

Somerville, M. J., BSc PhD Lectr.

Broadbent, T. E., MSc PhD Lectr.

Popplewell, Cicely M., MA *Camb.*

(Computing) Lectr.

Lanigan, M. J., MSc Lectr.

Tipping, D., BSc Lectr.

Atherton, D. P., BEng *Sheff.* Lectr.

Eastham, J. F., MSc Lectr.

Aspinall, D., MSc Lectr.

Jeffreys, D. C., MSc Lectr.

Turner, J. A., MSc Asst. Lectr.

Nix, G. F., MSc Asst. Lectr.

**English Language and Literature**Kermode, J. F., MA *Liv.* (E. Lit.) Taylor Prof.Brook, G. L., BA PhD *Leeds*, MA

(E. Lang. &amp; Mediæv. E. Lit.) Smith Prof.

Jump, J. D., MA *Liv.* (E. Lit.) ReaderGordon, Mrs. Ida L., BA PhD *Leeds*

(E. Lang.) Sr. Lectr.

Lees, F. N., BA (E. Lit.) Sr. Lectr.

Leslie, R. F., MA PhD (E. Lang.) Sr. Lectr.

Cox, R. G., MA PhD *Camb.* (E. Lit.) Sr. Lectr.Hanson, C., MA *Sheff.* (E. Lit.) Lectr.Pollard, A., BA *Leeds*, BLitt *Oxon.*

(E. Lit.) Lectr.

Oliver, Mrs. Annabella M., BA *Oxon.*,MA *Edin.* (E. Lit.) Sp. Lectr.Skelton, R., MA *Leeds* (E. Lit.) Lectr.Moore, G. H., MA *Camb.* (Amer. Lit.) Lectr.Barron, W. R. J., MA BPhil *St. And.*

(E. Lang.) Lectr.

Hignett, Dorothy M., MA (E. Lang.) Lectr.

Hinchliffe, A. P., MA *Yale & Manc.*

(E. Lit.) Lectr.

Beer, J. B., BD *Lond.*, MA PhD *Camb.*

(E. Lit.) Lectr.

Bergonzi, B., BA *Oxon.* Asst. Lectr.Chapple, A. J. V., MA *Lond.* Asst. Lectr.Goldman, A. M., AB *Harv.*, MA *Yale*

Asst. Lectr.

**French Studies**Vinaver, E., DLitt *Oxon.*, DèsL *Paris*,Hon. LHD *Chic.*, MA *Oxon. & Manc.*

(Fr. Lang. &amp; Lit.) Prof.

Austin, LI. J., DUParis, MA *Melb.*,*Camb. & Manc.* (Mod. Fr. Lit.) Prof.Whitehead, F., MA DPhil *Oxon.*

(Old Fr. Lang. &amp; Lit.) Reader

Marks, J., MA †Sr. Lectr.

Sutcliffe, F. E., MA PhD Sr. Lectr.

Saunders, F. W., MA Sr. Lectr.

Young, Margaret L. M., MA *St. And.*,LèsL *Paris*, PhD †Lectr.Gaudon, J. A. M., LèsL *Paris*, MA Lectr.Gwynne, G. E., MA *Wales*, DUParis Lectr.Hampson, N., MA *Oxon.*, DUParis

(Fr. Hist. &amp; Instns.) Lectr.

Churchman, Anne R., MA Lectr.

Wexler, P. J., MA *Camb.*, DUParis Lectr.Baudard, J.-M. P., LèsL Dipl'd'ÉtSup *Rennes*  
& *Paris* (Mod. Fr. Lit.) Sp. Lectr.Daniels, G., BA *Wales*, MA Lectr.Kennedy, Elspeth M., MA DPhil *Oxon.* Lectr.Hill, Christine M., MA *Oxon. & Manc.* Lectr.Sandmeier, E., LèsL *Geneva*

(Mod. Fr. Lit.) Sp. Lectr.

Prigioni, P., LèsL *Geneva* Sp. Lectr.

Bogdanow, Fanni, MA PhD Lectr.

Morgan, Marjorie R., MA *Wales* Asst. Lectr.Crowe, S. M. H., BA *Dub.* Asst. Lectr.Tavera, A. M. M., LèsL Dipl'd'ÉtSup *Paris*,BA *Camb.* Asst. Lectr.Robinson, Barbara, BA LLB *Dub.* Asst. Lectr.

4 Assts.

**Geography**Crowe, P. R., BSc(Econ) *Lond.*, PhD *Glas.*,  
MA Prof.Freeman, T. W., MA *Leeds & Dub.*

(Econ. Geog.) Reader

Sylvester, Dorothy, MA *Liv.* Sr. Lectr.

Rodgers, H. B., MA Lectr.

Carter, Jean, BLitt *Oxon.*, BA Lectr.Duncan, J. S., MA *N.Z.* Lectr.Niddrie, D. L., MSc *S.A.* Lectr.Brice, W. C., MA *Oxon.* Lectr.North, G., MA *Camb.* Lectr.Johnson, R. H., BA *R'dg.*, MA *Sheff.* Lectr.Fox, D. J., BSc *Lond.*, MA *Calif.* Asst. Lectr.**Geology, Palæontology and Petrology**Deer, W. A., PhD *Camb.*, MSc  
Prof., Dir. of Labs.Calder, Mary G., BSc PhD *Glas.* Sr. Lectr.Nicholls, G. D., MA PhD *Camb.*

(Geochem.) Sr. Lectr.

Zussman, J., BA PhD *Camb.* Sr. Lectr.MacKenzie, W. S., MA BSc *St. And.*,PhD *Camb.* Sr. Lectr.Simpson, I. M., BSc *Edin.*, PhD *Glas.*

(Stratig.) Lectr.

Morton, E., MSc (Appl. Geol.) †Sp. Lectr.

Broadhurst, F. M., MSc PhD Lectr.

Howie, R. A., MA PhD *Camb.* Lectr.Dewey, J. F., BSc *Lond.* Asst. Lectr.Nicholson, R., BSc *Lond.* Asst. Lectr.**German Language and Literature**Peacock, R., LittD *Leeds*, DrPhil *Marburg*,  
MA *Leeds. & Manc.* Henry Simon Prof.Keller, R. E., DrPhil *Zür.*, MA

(German Lang. &amp; Mediæv. Lit.) Prof.

Kerry, S. S., BA PhD Lectr.

Rohl, Mrs. Freda K., BA *Lond.*, MA Sp. Lectr.Wallbank, F. Rosemary E., MA *Lond.* Lectr.O'Shiel, Eda, MA *N.U.I.*, DrPhil *Vienna*

Asst. Lectr.

Solomon, Mrs. Rhona R., BA *Oxon.*, MA

Asst. Lectr.

Larner, G., BA *Oxon.* Asst. Lectr.Blamires, D. M., BA *Camb.* Asst. Lectr.

2 Assts.

**Government**

- Mackenzie, W. J. M., LLB *Edin.*, MA *Oxon.*  
& *Manc.* Prof.  
Chapman, B., MA DPhil *Oxon.*  
(on leave) Sr. Lectr.  
Birch, A. H., BSc(Econ) PhD *Lond.* Sr. Lectr.  
Grove, J. W., BSc(Econ) *Lond.* Sr. Lectr.  
Grundy, J., BA BA(Admin) Lectr.  
Potter, A. M., MA *Wesleyan (Conn.)*,  
PhD *Col.* Lectr.  
Scott, D. J. R., MA *Camb.*, PhD Lectr.  
Bell, Coral M., BA *Syd.*, MSc(Econ) *Lond.* Lectr.  
Hanham, H. J., MA *N.Z.*, PhD *Camb.* Lectr.  
Lee, J. M., MA BLitt *Oxon.* Asst. Lectr.  
Gunn, L. A., MA *Aberd.* Asst. Lectr.  
Anderson, M., BA *Oxon.* Asst. Lectr.  
Abdel-Rahim, M., BA *Lond.* & *Nott.* Asst. Lectr.

**Hebrew**, see Semitic Studies and Theology

**Histology**, see Anat. and Histol.

**History**, see also Econ. and Theology

- Redford, A., MA PhD (Econ. H.) Prof.  
Smith, R. E., MA *Camb.* & *Manc.* (Anc. H.) Prof.  
Goodwin, A., MA *Oxon.* & *Manc.* (Mod. H.) Prof.  
Wallace-Hadrill, J. M., MA *Oxon.* & *Manc.* (Mediæv. H.) Prof.  
Rupp, Rev. E. G., BA *Lond.*, MA  
DD *Camb.* (Eccles. H.) Prof.  
Willan, T. S., MA BLitt DPhil *Oxon.* Reader  
Stark, W., DrRerPol *Hamburg*, DrJur *Prague*,  
MA *Edin.*  
(on leave) (H. of Econ. Thought) Reader  
Chaloner, W. H., MA PhD  
(Mod. Econ. H.) Sr. Lectr.  
Henderson, W. O., MA *Camb.*, PhD *Lond.*  
(Internat. Econ. H.) Sr. Lectr.  
Pennington, D. H., MA *Oxon.* Sr. Lectr.  
Ward, W. R., MA DPhil *Oxon.* †Sr. Lectr.  
Tupling, G. H., MA BSc PhD *Lond.*  
(Local H.) †Sp. Lectr.  
Rodewald, C. A., MA *Oxon.* Lectr.  
Desborough, V. R. d'A., MA BLitt *Oxon.* Lectr.  
Robinson, Rev. W. G., MA *Oxon.*, BA *Liv.*,  
BD PhD (Eccles. H.) Lectr.  
Flitcroft, Rev. J., MA (Eccles. H.) †Lectr.  
Western, J. R., MA *Oxon.*, PhD *Edin.* Lectr.  
Williams, P. H., BA *Oxon.* Lectr.  
Musson, A. E., MA Lectr.  
Perkin, H. J., MA *Camb.* (Soc. H.) Lectr.  
Hampson, N., MA *Oxon.*, DUParis  
(French H. & Instns.) Lectr.  
John, E., MA Lectr.  
Green, E. R. R., BA BLitt *Dub.*,  
DPhil *Oxon.* Lectr.  
Aylmer, G. E., MA DPhil *Oxon.* Lectr.  
Leff, G., BA PhD *Camb.* Lectr.  
Ehrhardt, Rev. A. A. T., DrJur *Königsberg*,  
PhD BD *Camb.*  
(Eccles. H.) Bishop Fraser Lectr.

Rosser, C. E. P., MA *Oxon.*

- (Archæol.) Sp. Lectr.  
Bean, J. M. W., MA DPhil *Oxon.* Lectr.  
Graham, A. J., MA PhD *Camb.* Lectr.  
Fraser, P., BA *Camb.*, PhD *Lond.* Lectr.  
Blaug, M., BA *N.Y.*, MA PhD *Col.*  
(Hist. of Econ. Thought) Lectr.  
Farnie, D. A., MA (Econ. Hist.) Lectr.  
Manning, B. S., MA DPhil *Oxon.* Asst. Lectr.

**Horticulture**, see Bot.

**Italian**

- Speight, Kathleen, MLitt *Camb.*,  
DottLett *Florence*, MA Sr. Lectr.  
White, D. M., MA *Camb.*, PhD Lectr.  
Ralphs, Sheila, BA *Lond.* Lectr.  
Lucchesi, V., DottLett *Florence* Asst. Lectr.  
1 Asst.

**Law**

- Wortley, B. A., OBE, LLM *Leeds*,  
Hon. DUREnnes, LL.D.  
(Jurisp. & Internat. L.) Prof.  
Cooper, W. Mansfield, LLM (Indust. L.) †Prof.  
Street, H., LLM PhD (Engl. L.) Prof.  
Turner, J., LLM *Liv.* (L. of Property) †Prof.  
Hornby, J. A., MA LLB *Camb.* Lectr.  
Bromley, P. M., MA *Oxon.* Lectr.  
Hesling, Edith, OBE, LLB †Lectr.  
Shepherd, F. C., LLB †Lectr.  
Sidebotham, H., LLM †Lectr.  
Townes, F. W., LLM †Lectr.  
Driver, J. E., LLM (Roman L.) †Hon. Lectr.  
Thompson, D., LLB PhD *Nott.* Lectr.  
Nowell, D. G., LLB †Asst. Lectr.  
Dean, M., LLB *Nott.* Asst. Lectr.  
Barnsley, D. G., LLM Asst. Lectr.  
Cox, Diana M., LLB *Lond.*, LLM *Tulane*  
Asst. Lectr.  
Gilliland, J. A. D., LLB *Belf.* Asst. Lectr.

**Linguistics, General**

- Haas, W., MA *Wales* Sr. Lectr.

**Literary Studies, Comparative**

- Hughes, G. T., MA PhD *Camb.* Lectr.

**Mathematics**, see also Technology

- Newman, M. H. A., MA *Camb.*, MSc,  
FRS (Pure M.) Fielden Prof.  
..... Beyer Prof.  
..... (Mathl. Stats.) Prof.  
Mahler, K., DrPhil *Fran.*, DSc, FRS  
(Mathl. Analysis) Prof.  
Neumann, B. H., DrPhil *Berl.*, PhD *Camb.*,  
DSc, FRS Reader  
Camm, G. L., MA DPhil *Oxon.* Reader  
Ledermann, W., DSc *Edin.*, PhD *St. And.*  
Sr. Lectr.  
Illingworth, C. R., BA *Camb.* Sr. Lectr.  
Levine, S., MA PhD *Tor.* Sr. Lectr.

Haselgrove, C. B., MA PhD *Camb.*  
(Theory of Computing) Sr. Lectr.  
Stone, A. H., MA *Camb.*, PhD *Prin.* Sr. Lectr.  
Wild, E., MA *Camb.* Sr. Lectr.  
Glauert, M. B., MA *Camb.* Sr. Lectr.  
Green, J. A., BSc *St.And.*, PhD *Camb.*

Sr. Lectr.  
Barrett, M. G., MA DPhil *Oxon.* Sr. Lectr.  
Bland, D. R., MA *Camb.* Sr. Lectr.  
Cohn, P. M., MA PhD *Camb.* Lectr.  
Chisnell, R. F., MSc *Lond.*, PhD

(Maths. & Engin.) Lectr.  
Goldsworthy, F. A., MSc PhD Lectr.  
Stone, Mrs. Dorothy, BSc *Carnegie Tech.*,  
PhD *Bryn Mawr* Lectr.

Morton, B. R., MSc *N.Z.*, BA PhD *Camb.* Lectr.  
Watson, E. J., MA *Camb.* Lectr.  
Lewis, T., MA *Oxon.* (Mathl. Stats.) Lectr.  
Darroch, J. N., MA *Camb.* (Mathl. Stats.) Lectr.  
Rutovitz, D., MSc PhD *Cape T.* Lectr.  
Priestley, M. B., MA *Camb.*, PhD

(Mathl. Stats.) Lectr.  
Fox, N., BSc *Lond.* Asst. Lectr.  
Leslie, F. M., BSc *St.And.* Asst. Lectr.  
Kovacs, L. G., MSc Asst. Lectr.  
Gibbons, A., BSc Asst. Lectr.

### Mechanics of Fluids

Owen, P. R., BSc(Eng) *Lond.*, MSc  
Prof., Dir. of Lab.  
Johannesen, N. H., MSc DrTechn *Copen-*  
*hagen* Sr. Lectr.  
Zienkiewicz, H. K. Lectr.  
Gerrard, J. H., MSc PhD Lectr.  
Jennings, A., MSc (Aircraft Structures) Lectr.

### Medicine, see below

### Mesopotamian Studies, see Semitic Studies

### Metallurgy and Metallography, see also Technology

Tottle, C. R., MMet *Sheff.*, FIM  
Prof., Dir. of Labs.  
Axon, H. J., BMet *Sheff.*, DPhil *Oxon.* Reader  
Enfawistle, K. M., MSc PhD Reader  
Leak, G. M., BSc *Lond.*, PhD *Birm.* Sr. Lectr.  
Shelton, R. A. J., BSc *Lond.* Lectr.  
Cottell, G. A., MSc Hon. Sp. Lectr.  
Brown, R. S., MBE Hon. Sp. Lectr.  
Stubbs, J. R., PhD *Lond.*, BSc Lectr.  
Spriggs, P. H., MSc *Lond.* Lectr.  
Ridley, N., BSc PhD *Durh.* Lectr.  
Elliott, R., BSc Asst. Lectr.  
Barrand, P., BSc Asst. Lectr.

### Music

Procter-Gregg, H., BA MusB *Camb.*, MA Prof.  
Aitchison, M., MA MusB *Camb.* Sr. Lectr.  
Cox, F. R., OBE, MA *Oxon.* Hon. Sp. Lectr.  
Avery, D. Ann, MA MusB *Camb.* Lectr.  
Smith, P. B., MA MusB *Camb.*,  
MSc *Juilliard* Lectr.  
Horsfall, B., BMus *Durh.*, MusD †Asst. Lectr.  
Knowles, C. †Asst. Lectr.

### Near Eastern Archæology

Burney, C. A., MA *Camb.* Asst. Lectr.

### Palæography

Tyson, M., MA PhD †Reader

### Palæontology, see Geol.

### Persian Studies

Boyle, J. A., BA *Birm.*, PhD *Lond.* Reader

### Petrology, see Geol.

### Philosophy, see also Theology

Emmet, Dorothy M., MA *Oxon.* & *Manc.*  
Sir Samuel Hall Prof.  
Prior, A. N., MA *N.Z.* Prof.  
Mays, W., PhD *Camb.* Sr. Lectr.  
Henry, D. P., BA *Leeds*, PhD Lectr.  
Lejewski, C., MagFil *Warsaw*, PhD *Lond.*  
(on leave) Lectr.  
Bell, D. R., MA *St.And.* Asst. Lectr.  
Dawson, E. E., BE *Yale*, MA *Camb.* Asst. Lectr.  
Holdcroft, D., BA *Camb.* Asst. Lectr.  
Parry, G. B., BSc(Econ) PhD *Lond.* Asst. Lectr.

### Physics, see also Engin., Electr., and Tech- nology

Devons, S., MA PhD *Camb.*, MSc, FRSS  
Langworthy Prof., Dir. of P. Labs.  
Kopal, Z., DSc *Prague*, MSc (Astron.) Prof.  
Lovell, Sir A. C. B., OBE, BSc PhD *Brist.*,  
MSc, FIP, FRSS  
(Radio-Astron.) Prof., Dir. of Nuffield  
Labs.  
Flowers, B. H., MA *Camb.* & *Oxon.*,  
DSc *Birm.* (Theoret. P.) Prof.  
Brown, R. H., DIC, BSc(Eng) *Lond.*, DSc,  
FRSS (Radio-Astron.) Prof.  
Gilbert, C. W., MA PhD *Camb.* Hon. Reader  
Braddick, H. J. J., BA PhD *Camb.*  
Reader, Asst. Dir. of P. Labs.  
Birks, J. B., BA *Oxon.*, DSc PhD *Glas.*,  
FIP Reader  
Davies, J. G., MA *Camb.*, PhD  
(Radio-Astron.) Reader  
Mendoza, E. B., MA PhD *Camb.* Sr. Lectr.  
Edwards, S. F., MA PhD *Camb.*  
(Theoret. P.) Sr. Lectr.  
Ring, J., BSc PhD Sr. Lectr.  
Newton, J. O., MA PhD *Camb.* Sr. Lectr.  
Kahn, F. D., BA DPhil *Oxon.*  
(Astron.) Sr. Lectr.

Herzenberg, A., BSc PhD Sr. Lectr.  
Jennison, R. C., BSc PhD (Radio-Astron.) Lectr.  
Palmer, H. P., BA DPhil *Oxon.* Lectr.  
Bunbury, D. St. P., BSc PhD *Lond.* Lectr.  
Calvert, J. M., MA DPhil *Oxon.* Lectr.  
Jaffe, A. A., PhD *Jerusalem*, BSc Lectr.  
Goldfarb, L. J. B., MSc *McG.*, PhD *Roch.*  
(Theoret. P.) Lectr.  
Broadbent, D., BSc Lectr.

Davies, R. D., MSc *Adel.*, PhD Lectr.  
 Roman, P., DrPhil *Bud.*  
 (on leave) (Theoret. P.) Lectr.  
 Boyle, A. J. F., BSc *Melb.*, PhD *A.N.U.* Lectr.  
 Binnie, D. M., BSc PhD Lectr.  
 Mandl, F., MA DPhil *Oxon.*

(Theoret. P.) Lectr.  
 Hall, H. E., BA PhD *Camb.* Lectr.  
 Large, M. I., MA PhD *Camb.* Lectr.  
 Grant, I. S., BA PhD *Camb.* Lectr.  
 Phillips, W. R., BSc *Lond.*, PhD *Camb.* Lectr.  
 Conway, R. G., MA PhD *Camb.* Lectr.  
 Dunning, N. J., MA *Camb.*, BSc *Lond.* Lectr.  
 Bowcock, J. E., BSc PhD *Birm.*

(Theoret. P.) Lectr.  
 James, N. F., BSc *Wales*, MSc *R'dg.* Lectr.  
 Bodmer, A. R., BSc PhD Lectr.  
 Thomson, J. H., MA PhD *Camb.*

(Radio-Astron.) Lectr.  
 Gale, N. H., BSc *Lond.* Asst. Lectr.  
 Read, F. H., BSc *Lond.*, PhD Asst. Lectr.  
 Hinrichsen, P. F., BSc Asst. Lectr.  
 Slater, C. H., BSc Asst. Lectr.  
 Dickinson, B., BSc Asst. Lectr.

### Physiology

Schlapp, W., MB ChB BSc PhD *Edin.*,  
 MSc Brackenbury Prof., Dir. of Labs.  
 Mills, J. N., MA BSc DM *Oxon.*,  
 MD *Camb.* Reader  
 Kendal, L. P., PhD *Camb.*, MSc  
 (Physiol. Chem.) Sr. Lectr.  
 Morgan Jones, A., MSc MB ChB, FRCP  
 (Appl. P.) Lectr.  
 Beswick, F. B., MB ChB (Exper. P.) Lectr.  
 Thomas, S., BSc MD *Wales* Lectr.  
 Griffiths, D. Ll., MBE, BSc MB ChB,  
 FRCS (Appl. P.) Hon. Asst. Lectr.  
 Hastewell, L. J., BSc PhD *Durh.*, MB  
 ChB *Edin.* Lectr.  
 Parker, J. D., BSc *St. And.* (Chem. P.) Demr.  
 Lomax, P., MB ChB Demr.  
 Williamson, K. S., MB ChB Demr.  
 Kilshaw, J. H., BSc MB ChB Demr.

### Portuguese Studies, see Spanish

### Psychology

Cohen, J., PhD *Lond.*, MA *Lond. & Manc.* Prof.  
 MacNeill, Florence E., MA BEd PhD *Edin.*  
 Sr. Lectr.  
 Kenna, J. C., MA *Calif.*, BA *Syd.*,  
 BEd *Melb.* (Clin. P.) Lectr.  
 Kitching, E. H., MD *Leeds*, MRCP †Sp. Lectr.  
 Hansel, C. E. M., MA *Camb.* Lectr.  
 Morris, J. F., BSc(Econ) PhD *Lond.* Lectr.  
 Skemp, R. R., MA *Oxon.*, PhD Lectr.  
 Rump, E. E., BSc *Lond.* Asst. Lectr.  
 Dearnaley, E. J., MSc Asst. Lectr.  
 Warrington, E. W. F., BA BD *Lond.* Asst. Lectr.

### Radio-Astronomy, see Physics

### Romance Philology

Prof.

### Russian Studies

Costello, D. P., MA *N.Z.*, *Camb. & Manc.*  
 Sir William Mather Prof.  
 Dumbreck, J. C., MA *Glas.* Lectr.  
 White, Mrs. Duklida, BA *Moscow* Sp. Lectr.  
 Adamovitch, G. Sp. Lectr.  
 Beresford, M., BA Lectr.  
 Du Feu, Veronica M., MA PhD *Lond.*,  
 LicenPhilSlav *Brussels* (on leave) Lectr.  
 Hollingsworth, B., BA *Camb.* Asst. Lectr.

### Scandinavian Studies

Nilsson, N. L., FilKand *Lund* Asst. Lectr.

### Semitic Studies, see also Theology

Beckingham, C. F., MA *Camb.*  
 (Islamic Studies) Prof.  
 Ullendorff, E., MA *Jerusalem*, DPhil *Oxon.*  
 (Semitic Langs. & Lits.) Prof.  
 Weis, P. R., LicenPhil&HistOr *Louvain*, MA  
 (Post-Biblical Jewish Studies) Jaski St.  
 Lectr.  
 Wallenstein, M., MA PhD  
 (Mediaev. & Mod. Hebrew) Sr. Lectr.  
 Wernberg-Møller, P., CandTheol *Copenhagen*,  
 DPhil *Oxon.* (Semitic Langs. & Lits.) Lectr.  
 Allegro, J. M., MA (Hebrew) Sp. Lectr.  
 Latham, J. D., MA DPhil *Oxon.* (Arabic) Lectr.

### Social Administration

Chester, T. E., DrJur *Vienna*, MA (Econ.) Prof.  
 Rodgers, Mrs. Barbara N., MA *Oxon.* Sr. Lectr.  
 Rose, A. G., BSc(Econ) *Lond.*, B.Litt *Oxon.*  
 Sr. Lectr.  
 Rodgers, A. B. L., BSc(Econ) *Lond.* Lectr.  
 Heywood, Jean S., PhD *Leeds*, BA Lectr.  
 Gray, Mrs. Kathleen R., BA Tutor  
 Brown, R. G. S., MA *St. And.* Tutor  
 Jones, Mrs. Kathleen, BA PhD *Lond.* Lectr.  
 Maude, Mrs. Florence, BA *Durh.*

Tutor Caseworker

### Social Anthropology

Gluckman, H. M., BA *Rand*, DPhil *Oxon.*,  
 MA *Oxon. & Manc.* Prof.  
 Watson, W., BA MSc *Camb.*, PhD  
 (Sociol.) Sr. Lectr.  
 Turner, V. W., BA *Lond.*, PhD Lectr.  
 Frankenberg, R. J., BA *Camb.*, MA(Econ)  
 PhD Lectr.  
 Pons, V. G. K., MSocSc *Cape T.*,  
 PhD *Lond.* Lectr.  
 Southwold, M., MA PhD *Camb.* Lectr.

### Social Studies

Prof.

### Spanish and Portuguese Studies

Rees, J. W., BA *Wales*, MA *Oxon. & Manc.*  
 (Spanish Lang. & Lit.) Prof.

Raventós, Mrs. Margaret H., <i>MA Camb.</i>	Sp. Lectr.
Ramsden, H., <i>Dren Fil &amp; Let Madrid, MA</i>	Lectr.
Gybbon-Monypenny, G. B., <i>MA</i>	
<i>PhD Camb.</i>	Lectr.
Michael, I. D. L., <i>BA Lond.</i>	Lectr.
Willis, R. C., <i>MA Camb.</i>	(Portuguese) Lectr.
Price, R. M., <i>MA</i>	Asst. Lectr.
<i>Asst.</i>	

## Town and Country Planning

.....	Prof.
Easton, H. C., TD, MA <i>Oxon.</i> , LLB	
(Town Planning Law) †Lectr.	
Turner, R. B., DipArch DipTP	
(Archit. for Town Planning) †Lectr.	
Chadwick, G. F., MA BScTech PhD	
DipTP	Lectr.
Jackson, J. N., BA <i>Birm.</i> , PhD	Lectr.
Medhurst, D. F., DFC, MA	Lectr.
Melville, I. S., BArch DipCD <i>Liv.</i>	Lectr.
Robinson, D. G., BA <i>Durh.</i>	Lectr.
Pedley, M. D., BA	†Lectr.
Turner, R., BA(Econ) DipTP	†Lectr.
Raymond, S., MScTech DipTP	†Lectr.

Cannon, H. G., MA ScD Camb., DSc Lond.,  
MSc, FRS                  Beyer Prof., Dir. of Labs.  
Dennell, R., DSc Leeds, MSc, FLS  
(Exper. Z.) Prof.  
Blower, J. G., MSc  
(Ecol.) Reader  
Brown, F. J., MSc Birm.  
Sr. Lectr., Asst. Dir. of Labs.  
Iles, E. J., BSc PhD Brist.                  Sr. Lectr.  
Popham, E. J., PhD DSc Lond.                  Lectr.  
Kennaugh, J. H., MSc Lond. (Exper. Z.)      Lectr.  
Peel, Mrs. Edna D., MSc                  †Sp. Lectr.  
Evans, M. E. G., BSc PhD Lond.                  Lectr.  
Thomas, M. Pugh, BSc PhD Liv.                  Lectr.  
Gabbutt, P. D., BSc Leeds, PhD Lond.  
•  
Askew, R. R., BSc Durh.                  Asst. Lectr.  
Asst. Lectr.

Dinsdale, T., MB ChB, FFARCS  
†Lectr., Demr.

Hardwick, J. L., MDS PhD *Birm.*,  
FDSRCS (Prev. D.) Prof.  
Miller, J., DDS Sr. Lectr.  
Hobson, Mrs. Pamela, MSc LDS †Lectr.

Monks, F. T., MSc LDS, FDSRCS      Lectr.  
Demr.

Matthews, E., DIC, PhD  *Lond.*, MSc  
 *Lond. & Manc.*, DDS, FDSRCS  
 (Prosthetic D.) Prof., Dir. of Dept.  
 McIntyre, H., MB ChB BDS, FDSRCS  
 (Prosthetics) †Clin. Lectr.  
 Graham, Mrs. Estelle P. M., MSc LDS  
 (Clin. Prosthetics) †Lectr.  
 Smith, D. C., MSc  *Lond.*, PhD, FRIC  
 (D. Materials) Lectr.  
 Earnshaw, R. G., MDSc  *Q'ld.*, PhD  
 (Prosthetic D.) Lectr.  
 Bates, J. F., BDS  *Durh.*, MSc  
 (Prosthetic D.) Lectr.  
 Johnson, W., MSc LDS (Prosthetic D.) Lectr.  
 Hargreaves, P., BSc Tech  
 (D. Materials) Asst. Lectr.  
 Wain, E. A., MSc (Prosthetic D.) Asst. Lectr.  
 Whittaker, L. B., LDS  
 (Prosthetic D.) Asst. Lectr.

## Derbyshire, K., LDS †Clin. Lectr.

Radden, H. G., DSc <i>Melb.</i> , MSc,		Prof.
FDSRCS		
Cooke, C., LDS, FDSRCS	Sr. Clin. Lectr.	
Lewis, P. R., BDS	†Sr. Clin. Lectr.	
McKenzie, J. S., LDS	†Clin. Lectr.	
Cartledge, D. H., BDS, FDSRCS	†Clin. Lectr.	
Cocker, G., LDS	†Clin. Lectr.	
Crabtree, P., LDS	†Clin. Lectr.	
Turner, Mrs. Barbara M. A., BDS	†Clin. Lectr.	
Turner, E. P., MSc	Lectr.	
Hatt, S. D., BDS <i>St.And.</i> , MDS	Lectr.	
Grundy, J. R., BDS <i>Birm.</i>	Lectr.	
Allred, H., MDS	Lectr.	
Davies, T. G. H.	†Lectr.	
Tyson, R. J., LDS	†Lectr.	
Colman, G., MDSc <i>Melb.</i> , DipBact	Asst. Lectr.	
Rothwell, P. S., MDS	†Asst. Lectr.	
Hindle, M. O., BDS	Asst. Lectr.	
ten Bruggen Cate, H. J., BDS	Demr.	
Lomax, G. W., BDS	Demr.	

Parkinson, J. S., BSc MB ChB DPH,  
MRCP †Lectr.  
Roussak, N. J., BSc MB ChB, MRCP †Clin. Lectr.

Holt, J. K., DDS *Northwestern*, MSc LDS, FDSRCS Reader  
Rowbotham, T. C., BDS, FDSRCS (Oper. Technique) †Lectr.  
Cartledge, D. H., BDS, FDSRCS (Oper. Technique) Lectr.  
Grundy, J. R., BDS *Birm.* (Oper. Technique) Lectr.  
Allred, H., MDS (Oper. Technique) Lectr.



Scott, T. S., MD *Glas.*

(Occupl. Health) †Hon. Asst. Lectr.

Wynn, C. H., BSc PhD *Wales*

(Biochem. in Dept. of Rheumatol.) Asst. Lectr.

Roscoe, Margaret H., BSc PhD *Lond.*, MB

ChB

Res. Asst., Tutor

Dodwell, Beatrice (Nursing Technique) Demr.

Berlyne, G. M., MB ChB Tutor

### Neurology

Ferguson, F. R., MD DPH, FRCP

†Reader, Dir. of Neurol. Sub-Dept.

Smyth, G. G. E., MD, FRCP

(Med. Neurol.) †Lectr.

Liversedge, L. A., MD *Duke*, BA BSc MB

ChB, MRCP (Med. Neurol.) †Lectr.

### Neuro-Surgery, see Surg.

### Obstetrics and Gynæcology

Morris, W. I. C., MB ChB *Edin.*, MSc,

FRCSed, FRCOG Prof., Dir. of Dept.

Walker, A. H. C., MB BS *Lond.*, FRCOG

Reader

Langley, F. A., MSc MB ChB

(Obstetrical & Gynæcological Pathol.)

Sr. Lectr.

Bailey, K. V., MC, MD, FRCOG, MRCP

(Clin. Obstet. & Gynæcol.) †Lectr.

Gerrard, E. A., MD, FRCOG

(Clin. Obstet. & Gynæcol.) †Lectr.

Newton, R., MD, FRCOG

(Clin. Obstet. & Gynæcol.) †Lectr.

Liebert, Katharine I., BSc MB ChB, FRCS

(Clin. Obstet. & Gynæcol.) †Lectr.

Burslem, R. W., MD

(Clin. Obstet. & Gynæcol.) †Lectr.

Hartley, J. B., MD *Durh.*, DMRE *Camb.*,

FFR (Radiol., also Child Health) †Lectr.

Rickards, C. E. B., MB ChB, FRCOG †Lectr.

Fitzgerald, T. B., DSC, MB ChB *Birm.*,

FRCSed

(Clin. Obstet. & Gynæcol.) †Lectr.

Thomson, R. M., MB ChB

Lectr.

### Ophthalmology

Duthie, O. M., MD, FRCS

†Reader, Dir. of Ophthalmol. Sub-Dept.

Stanworth, A., BSc MD *Sheff.*, PhD Reader

Naylor, E. J., MScTech PhD

(Ophthalmic Optics) Res. Fellow

Hon. Lectrs.

Janus, F., BSc MD

†Clin. O.

Scott, A. S., MB ChB *Glas.*, FRCSEd †Clin. O.

Smith, S. B.

†Clin. O.

Blaxter, P. L., MA MB BChir *Camb.*,

FRCS

†Clin. O.

### Lecturer

Graham, P. A., MB ChB *Glas.*, FRCS

### Otolaryngology and Audiology

Lambert, V. F., MD ChM, FRCS

(Otolaryngol.) †Prof., Dir. of Dept.

Ewing, Sir Alexander, MA *Edin.*, PhD

(Educn. of the Deaf) Ellis Llwyd Jones Prof.

Jones, R. F. McN., MB BS *Lond.*, FRCS

(Otolaryngol.) Lectr., Asst. Dir. of Dept.

Lawson, H. P., FRCSEd

(Clin. Otolaryngol.) †Hon. Lectr.

Young, N. A. J., MB ChB, FRCSEd

(Otolaryngol.) †Lectr.

John, J. E. J., BSc *Wales*

(Audiol.) Lectr.

Owrid, H. L., MA

(Audiol.) Lectr.

Harrison, K., MD, FRCS

(Clin. Otolaryngol.) Hon. Lectr.

Taylor, I. G., MB ChB DPH

(Clin. Audiol.) Lectr.

Chadwick, D. L., MD, FRCS

(Clin. Otolaryngol.) †Hon. Lectr.

### Pathology and Pathological Anatomy, see also Obstet. & Gynæcol. and Ophthalmol.

Campbell, A. C. P., MB ChB *Edin.*, MSc,

FRCPed (Pathol. & P. Anat.) Procter Prof.

Whitehead, R., DSc MD

Reader

Fairbrother, R. W., DSc MD, FRCP

(Clin. P.) †Hon. Reader

Langley, F. A., MSc MB ChB

(Obstetrical & Gynæcological Pathol.)

Sr. Lectr.

Ball, J., BSc MD

(in Dept. of Rheumatol.) Sr. Lectr.

Yates, P. O., MD

(Neuro-P.) Sr. Lectr.

Gowenlock, A. H., MSc MB ChB PhD

(Chem. P.) Sr. Lectr.

Williams, G., MD *St. And.*

Sr. Lectr.

Lempert, H., MSc MD (Clin. P.) †Hon. Lectr.

Varley, H., MSc (Clin. P.) †Hon. Lectr.

Jennison, R. F., MD *Lond.*, MRCP

(Clin. P.) †Hon. Lectr.

Davson, J., MB BS *Lond.*

†Hon. Lectr.

Paterson, Mrs. Edith I., MB ChB *Edin.*

(Radio-Biol.) †Hon. Lectr.

Schwarz, V., BSc *Lond.*, PhD (Chem. P.) Lectr.

Baker, S. B. de C., MD

Lectr.

Sclare, G., MB ChB *Glas.*

Lectr.

Steward, J. K., MD, MRCP

(also Child Health) Lectr.

Jackson, F. B., MB ChB

(Clin. P.) Hon. Asst. Lectr.

Coburn, J. G., BSc MD

(Dermatol., Histo-Pathol.) †Asst. Lectr.

Nicol, A., MB ChB *Aberd.*

Asst. Lectr.

Wade-Evans, T., BSc *Wales*, MB

BS *Lond.*

Asst. Lectr.

Ellis, Mrs. Margaret Redford, BSc

(Chem. P.) Asst. Lectr.

Corrin, B., MB BS *Lond.*

Asst. Lectr.

Williams, G. E. G., MA MB BChir *Camb.*,

MRCP

Asst. Lectr.

Brundelet, J. P., LicMedSurg *Madrid*

Asst. Lectr.

Platt, D. S., BSc

†Demr.

Cook, T. A., MB ChB  
Fentem, P. H., MSc MB ChB  
Holt, Shirley, MB ChB

Demr.  
Demr.  
Demr.

Young, R. M., MB ChB DipPsychiatry  
Edin. (Clin. Psychiatry) †Asst. Lectr.

**Pharmacology, Materia Medica and Therapeutics**

Macdonald, A. D., MA MD Edin., MSc  
(Pharmacol., Mat. Med. & Therapeutics) Leech Prof.  
Bedford, T. H. B., MSc MB ChB Leeds,  
DSc, MRCP (Pharmacol.) Lectr.  
Jackson, H., MSc MB ChB PhD  
(Exper. Chemotherapy) †Hon. Lectr.  
Hunter, A. R., MD Glas., FRFPGlas,  
FFARCS (Pharmacol.) †Hon. Lectr.  
Starmer, G. A., BSc (Pharmacol.) Asst. Lectr.

**Pharmacy**

Bullock, K., MSc PhD, FRIC Prof.  
McIlville, C., BPharm Lond., PhD Sr. Lectr.  
Rigby, G. J., BSc Lond., MSc PhD  
DipBact Sr. Lectr.  
Woodhead, H. B., MSc Lectr.  
Bellis, D. M., BSc Lectr.  
Tallentire, A., MSc PhD (on leave) Lectr.  
Thomas, J., MSc PhD Lectr.  
Thomas, W. G., MSc Asst. Lectr.  
Edwards, B. R., MSc Asst. Lectr.  
Stoker, J. R., MSc Demr.  
Robinson, J. B., MSc Demr.  
Benson, G. G., BSc Demr.  
Clough, D., BSc Demr.  
Gibson, Beryl J., BSc Demr.  
Canty, J., BSc Demr.  
Buckley, D., BSc Demr.

**Preventive Medicine, see Soc. & Prev. Med.**

**Psychiatry**

Anderson, E. W., MD Edin., DPM Lond.,  
MSc, FRCP Prof., Dir. of Dept.  
Hoerig, J., MD Prague, DPM Lond. Sr. Lectr.  
Kitching, E. H., MD Leeds, MRCP †Lectr.  
Markowe, M., MD DPH Lond. †Lectr.  
Crowe, P. M., MB ChB, DPM  
(Clin. Psychiatry) †Lectr.  
Kenna, J. C., MA Calif., BA Syd.,  
BEd Melb. (Clin. Psychol.) Lectr.  
Blair, R. A., MB ChB Glas., FRFPGlas  
(Clin. Psychiatry) †Lectr.  
Malloy, T. R., MD Belf. (Child Psychiatry) †Lectr.  
Mather, N. J. de V., MA Oxon., MB ChB  
†Lectr.  
Cunningham, R. C., MB ChB DPH Glas.,  
DPM (Mental Deficiency) †Lectr.  
Rose, D. J. (Mental Deficiency) †Lectr.  
Hamilton, Marian W., BA Lond. & Oxon.  
(Psychiatric Soc. Work) Lectr.  
Reed, G. F., MA Camb. (Clin. Psychol.) Lectr.  
Calder, W., MB ChB Edin., DPM Lond.  
(Criminal Psychiatry) †Lectr.  
Wadsworth, W. V., BSc MB ChB DPM,  
MRCP †Asst. Lectr.

**Radiology**

Gray, E. D., MA MD Aberd., DMRE Camb.,  
FFR †Lectr., Dir. of Radiol. Sub-Dept.  
Meredith, W. J., MSc, FIP  
(Radiol. Phys.) †Hon. Lectr.  
Reid, R. G., MB ChB DMRE Liv., FFR  
†Asst. Lectr.  
Locke, G. B., MB ChB, FFR †Asst. Lectr.  
Wilding, J. H., MB ChB †Hon. Asst. Lectr.  
Fawcitt, J. B. †Hon. Asst. Lectr.  
Stephenson, S. K., BScTech  
(Radiol. Phys.) Tutor

**Radiotherapy**

Paterson, J. R. K., CBE, MC, MD Edin.,  
DMRE Camb., FRCS, FFR  
(Radiotherapeutics) †Prof.  
Dobbie, J. L., BA DMRE Camb., MB ChB  
Edin., FFR (Clin. Radiotherapy) †Lectr.  
Easson, E. C., MD Glas., FFR †Asst. Lectr.  
Cole, Mary P., MSc MD Belf., FFR  
†Asst. Lectr.  
Gibb, R., MB ChB Aberd., FFR †Tutor  
Warrington, H. C., MB ChB, FFR †Tutor  
Pointon, R. C. S., MA MB BChir Camb.,  
FFR Tutor  
Sherrah-Davies, E., MA MB BChir Camb.,  
FRCS, FFR †Tutor

**Rheumatic Disease, see Med. and Pathol.**

**Social and Preventive Medicine**

Brockington, C. F., MA MD DPH Camb.,  
MSc, MRCP Prof., Dir. of Dept.  
Logan, R. F. L., MD Belf., CPH, MRCP Reader  
Gawne, S. C., MD Lond., DPH Liv.  
(Pub. Health Admin.) †Lectr.  
Brown, C. Metcalfe, MD Glas., DPH  
(Prev. Med.) †Lectr.  
Burn, J. L., MD DHy DPH Durh.  
(Pub. Health) †Lectr.  
Susser, M. W., MB ChB Rand Lectr.  
Grant, A. W., MScTech  
(Pub. Health Engin.) †Lectr.  
Leeson, Joyce E., MB ChB DPH  
(Med. Stats.) Asst. Lectr.  
Kushlick, A., MB ChB Rand, MRCP †Lectr.  
Wilkic, Elizabeth E., BA Lond.  
Health Visitor, Tutor  
Nurse Tutor

**Surgery**

Boyd, A. M., MB BS Lond., MSc, FRCS  
Prof., Dir. of Dept.  
Riddell, A. G., MBE, MS Lond., FRCS  
Sr. Lectr.  
Holt, R. L., OBE, MD, FRCS †Lectr.  
Simmons, H. T., BSc MD ChM, FRCS †Lectr.  
Nicholson, W. F., MA MD MChir Camb.,  
FRCS †Lectr.  
Moore, T., MS MD Durh., FRCS †Lectr.  
Bloor, K., MD, FRCS Lectr.

Johnson, R. T., OBE, MA MB BChir *Camb.*,

FRCS

(Neuro-Surg.) †Lectr., Dir. of Neuro-Surg. Sub-Dept.

Potter, J. McE., MA MB BChir *Camb.*,

FRCS

(Neuro-Surg.) †Lectr.

Jennett, W. B., MB ChB *Liv.*, FRCS

(Neuro-Surg.) Lectr.

Griffiths, D. Ll., MBE, BSc MB ChB,

FRCS

(Orthop. S.) †Lectr., Dir. of Orthop. S. Sub-Dept.

Charnley, J., BSc MB ChB, FRCS

(Clin. Orthop. S.) †Hon. Lectr.

Sayle-Creer, W., MB MChOrth *Liv.*,

FRCS

(Orthop. S.) †Hon. Lectr.

Cullen, C. H., MCh *Belf.*, FRCS, FRCSI

(Orthop. S.) †Hon. Lectr.

Wilson, D. S. P., MA MCh BAO *Dub.*,

FRCS, FRCSI

(Urological S.) †Lectr.

Heslop, T. S., MB ChB, FRCS

(Clin. S.) †Hon. Lectr.

Jelly, G. O., MA MCh *Oxon.*, FRCS

(Clin. S.) †Hon. Lectr.

Nicholson, W. A. B., BSc MB ChB,

FRCS

(Clin. S.) †Hon. Lectr.

Rose, S. S., MB ChB, FRCS

(Also Lectr. in Surg. for Dent. Students) (Clin. S.) †Hon. Lectr.

Champion, A. H. R., MBE, MB BS

DDSc *Melb.*, FRCSEd

(Clin. S.) †Hon. Lectr.

Dark, J. F., BSc MB ChB, FRCS

(Cardiac S.) †Hon. Lectr.

Jack, G. D., MB ChB *Edin.*, FRCSEd

(Cardiac S.) †Hon. Lectr.

Anscombe, A. R., MS *Lond.*, FRCS †Lectr.

Torrance, H. B., MB ChB, FRCSEd †Lectr.

Thompson, H., MB ChB MChOrth *Liv.*,

FRCSEd

(Orthop. S.) Lectr.

Havenga, H. R., MB ChB *Rand* (Clin. S.) Tutor

Jones, P. H., MVO, FRCS

†Lectr.

### Surgical Pathology, see Surg.

### Tuberculosis

Wilson, T. McS., MC, MB ChB *Edin.*

†Asst. Lectr.

Turnbull, F. W. A., MB ChB *Edin.* †Asst. Lectr.

### Venereal Diseases

Laird, S. M., BSc MD *Glas.*, DPH *Liv.*,

FRFPGlas

†Lectr.

Davey, A. C. C., MB ChB

†Tutor

Watt, L., MD *Aberd.*

†Tutor

### TECHNOLOGY

(at the Manchester College of Science & Technology)

(see also Engineering, above)

Bowden, B. V., MA PhD *Camb.*, MIEE

Principal of Coll. of Sci. and Technol.,  
Dean of Fac.

### Biochemistry

Eddy, A. A., MA DPhil *Oxon.*

Prof.

Hall, A. N., MScTech PhD

Lectr.

Rowsell, E. V., MA PhD *Camb.*

Lectr.

Dalby, A., BSc *Lond.*, PhD *Leeds*

Lectr.

Hodgson, B., BSc PhD *Leeds*

Asst. Lectr.

### Building

Harper, D. R., BArch *Liv.*, PhD *Cape T.*,

FRIBA

Prof., Dir. of Labs.

McDonald, J. R. A.

Lectr.

Dilworth, R.

Lectr.

Garrett, C. H., BScTech

Lectr.

Barnes, V. C.

Lectr.

Boucher, C. T. G., MScTech PhD

Lectr.

Harwood, T. A. (Quant. Surveying)

Lectr.

McKay, J. K., BA BScTech

Lectr.

Burgess, R. A., BArch *Liv.*

Lectr.

Simpson, J. W., BSc *Lond.*

Lectr.

### Chemical Engineering, Fuel Technology and Metallurgy

Morton, F., MScTech PhD DSc, FRIC

(Chem. E.) Prof., Dir. of Labs.

Ross, T. K., MSc PhD *Lond.*

(Chem. E.) Reader

Norman, W. S., MSc *Liv.*, PhD *Lond.*

(Chem. E.) Reader

Holness, H., MSc *Leeds*, FRIC

Reader, Asst. Dir. of Labs.

Bray, H. J., BSc(Eng) PhD *Lond.*, FIM

(Metall.) Sr. Lectr.

Stainthorp, F. P., PhD *Lond.*, BScTech

(Chem. E.) Sr. Lectr.

Handford, C., MMet *Sheff.*, FIM

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(Chem. E.) Lectr.

King, P. J., BSc PhD *Birm.*

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PhD *Birm.*

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Curtis, C. A., DiplIngChem DrTechSc

*E.T.H. Zürich*

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(Fuel Technol.) Lectr.

Rushton, A., MScTech

(Chem. E.) Lectr.

Kitchingman, W. J., BSc *Sheff.*, MScTech

PhD

(Metall.) Lectr.

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(Chem. E.) Lectr.

Evans, P. E., MA PhD *Camb.*

(Metall.) Lectr.

Abrams, H. J., BSc *Wales*, BSc(Econ)

DipChemEng *Lond.*

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Clegg, G. T., BScTech

Lectr.

Menzies, I. A., BSc *St.And.*, DIC,

PhD *Lond.*

(Metall.) Lectr.

Edwards, R. J., MScTech (Metall.) Asst. Lectr.

Haqjoo, B., BSc *Birm.*, DipChemEng

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Bell, F. D., MScTech

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### Chemistry, see also above

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Neale, S. M., MSc *Liv.*, DSc  
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FRIC (Org. C.) Reader  
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FRS Hon. Reader  
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FRIC (Phys. C.) Sr. Lectr.  
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DrPhil *Vienna* Sr. Lectr.  
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PhD *Lond. & Camb.* Sr. Lectr.  
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*T.H. Berlin* Lectr.  
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(Colouring Matters) Lectr.  
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Bartindale, G. W. R., MA BSc DPhil *Oxon.* Lectr.  
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Crowder, M. M., MScTech Lectr.  
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Lappert, M. F., BSc PhD *Lond.*, FRIC Lectr.  
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Goldwhite, H., BA PhD *Camb.* Lectr.  
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Fields, R., BA *Camb.* Lectr.  
Newlands, M. J., MA PhD *Camb.* Lectr.  
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Leigh, G. J., BSc *Lond.* Asst. Lectr.  
Robinson, P. J., BSc Asst. Lectr.  
Rasburn, J. W., BSc *Lond.* Demr.  
Lees, W. A., BScTech PhD Demr.

### Chemistry, Textile

Peters, R. H., PhD *Lond.*, BSc *Lond. &*  
*Manc.* Prof., Dir. of Labs.  
Turner, H. A., MSc *Sheff.*, FRIC, FTI  
Sr. Lectr.  
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(Papermaking Technol.) Sr. Lectr.  
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Johnson, Alan, MScTech PhD Lectr.  
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*Manc.* (Polymer Chem.) Sp. Lectr.  
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McGregor, R., BSc PhD *Leeds* Lectr.  
Howard, G. J., BSc PhD *Nott.* Lectr.  
Peel, J. D., BSc *Liv.* (Paper Technol.) Lectr.  
Atherton, E., BSc PhD *Lond.*, FIP Sp. Lectr.  
Corte, H., PhD *Heidel.*, Dipl *Gött.* Sp. Lectr.

### Engineering, Electrical, see also p. 1098

Bradshaw, E., MBE, PhD *Glas.*, MScTech,  
MIEE Prof., Dir. of Labs.  
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Cutteridge, O. P. D., MSc(Eng) PhD *Lond.*  
Sr. Lectr.  
Barratt, N. M., MScTech Lectr.  
Hancock, N. N., BSc(Eng) *Lond.*,  
MScTech Lectr.  
Pickering, E. N., MScTech PhD Lectr.  
Attree, V. H., BSc(Eng) *Lond.* Lectr.  
Hindmarsh, J., BSc(Eng) *Lond.* Lectr.  
McCleery, D. K., MSc *Lond.*, FIP,  
MIEE Lectr.  
Perry, F. R., MScTech, MIEE  
(High Voltage E.) Sp. Lectr.  
Taylor, P. L., MA *Camb.*  
(Automatic Control) Sp. Lectr.  
Mathews, P., BA *Camb.* Sp. Lectr.  
Nellist, B. D., MScTech Lectr.  
Horsley, B., BSc *Birm.*, MScTech Lectr.  
Rawcliffe, J., MScTech Lectr.  
Gledhill, C. S., BScTech Lectr.  
Heath, F. G., BSc Lectr.  
Nicoll, G. R., BSc *St. And.* Lectr.  
Feinberg, R., DiplIng DrIng *T.H. Karlsruhe,*  
MSc  
(High Voltage D.C. Systems) Sp. Lectr.  
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(Electr. Machinery Analysis) Sp. Lectr.  
Baker, W. P., BSc(Eng) *Lond.*  
(High Voltage E.) Sp. Lectr.  
Walker, F., BSc *Edin.* Lectr.  
Nightingale, J. M., BScTech PhD Lectr.  
Kuffel, E., MSc PhD *N.U.I.* Lectr.  
Hartley, M. G., MScTech Asst. Lectr.  
Knowles, J. B., MScTech Asst. Lectr.  
Whitehead, R. W., MScTech Asst. Lectr.

### Engineering, Mechanical, see also p. 1098

Johnson, W., BSc *Lond.*, BScTech DSc  
Prof., Dir. of Labs.  
Lamble, J. H., MEng PhD *Liv.*, DSc,  
MIMEchE (Strength of Materials) Reader  
Koenigsberger, F., DiplIng *Berl.*, MScTech  
DSc, MIMEchE  
(Machine Tools & Production  
Processes) Reader  
Cantle, G. S., BSc *Durh.*, MScTech  
PhD Sr. Lectr.  
Johnson, E., BSc *Edin.*, MIMEchE Lectr.  
Hatton, A. P., MScTech PhD Lectr.  
Schiffer, G. R., BSc(Eng) *Lond.* Lectr.  
Parker, J., MScTech PhD Lectr.  
Royle, J. K., MScTech PhD Lectr.  
Fielding, B. J., BScTech Lectr.  
Kettlewell, J., BSc Lectr.  
Barash, M. M., BSc DiplIng *Haifa*, PhD  
Skorecki, J., BSc(Eng) *Lond.*, MScTech  
PhD Lectr.  
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Turton, J. S., MSc(Eng) *Lond.* Lectr.  
Baker, H. J., MScTech Lectr.  
Kitching, R., BSc(Eng) *Lond.*, MSc *Nott.* Lectr.

Needham, G., MScTech	Asst. Lectr.	Davis, A., MA <i>Oxon.</i> , PhD	Asst. Lectr.
Humphreys, A. G., BScTech	Demr.	Barnett, S., BSc	Asst. Lectr.

**Engineering, Municipal**

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Morgan, E. Ll., BSc <i>Wales</i> , MScTech	Lectr.
Tait, G. B., BSc <i>Edin.</i> , MScTech	Lectr.
Chisholm, D. S., MEng <i>Liv.</i>	Lectr.
Spencer, E., MScTech	Lectr.
White, J. B., BScTech	Lectr.
Coackley, P., PhD <i>Lond.</i> , BScTech	Lectr.
(Chem. appl. to Munic. E.)	
Collins, J. C., BSc(Eng) <i>Lond.</i> , MSE <i>Baltimore</i>	Lectr.
Bish, G. M., BScTech	Asst. Lectr.

**Engineering, Structural**

Merchant, W., MA <i>Oxon.</i> , SM <i>M.I.T.</i> , DSc	Prof., Dir. of Lab.
Gill, S. S., MScTech PhD, MIMechE	Sr. Lectr.
McMinn, S. J., MEng <i>Liv.</i> , PhD	Lectr.
Smith, R. B. L., MScTech	Lectr.
Brotton, D. M., BSc <i>Lond.</i> , PhD <i>Leeds</i>	Lectr.
Pannell, F. N., BSc(Eng) <i>Lond.</i> , MScTech	Lectr.
Dooley, J. F., MSc	Lectr.
Williamson, N. W., BSc PhD <i>Leeds</i>	Lectr.
Robinson, J. L.	Lectr.
Vasudevan, M., BE <i>Madr.</i> , MS <i>Stan.</i> , ME <i>Harv.</i>	Sp. Lectr.

**Industrial Administration**

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Roberts, A., MCom PhD	Reader
Wright, J. W., MA <i>Camb.</i>	Sr. Lectr.
Jenkins, G., MCom	Lectr.
Fraser, J. A., MA BED <i>Edin.</i>	Lectr.
Dowdell, A., MA <i>Oxon.</i>	Lectr.
Smith, P. L., MA <i>Oxon.</i>	Lectr.
Johnson, R. S., BSc <i>Wales</i>	Lectr.
Dew, R. B., MA <i>Camb.</i> , LLB	Sp. Lectr.
Thorley, S., BA BED <i>Belf.</i> , MA <i>Mich.</i>	Lectr.
Butterworth, J., BA(Com) MScTech	Lectr.

**Mathematics, see also above**

Kynch, G. J., DIC, BSc PhD <i>Lond.</i>	Prof.
Shenton, L. R., PhD <i>Edin.</i> , BSc	Reader
Neumann, Hanna, DPhil DSc <i>Oxon.</i>	Sr. Lectr.
Butler, R., MSc PhD	Lectr.
Bell, G. M., MA DPhil <i>Oxon.</i>	Lectr.
Fagg, S. V., DIC, BSc <i>Lond.</i>	Lectr.
Hogg, H. E., MA <i>Camb.</i>	Lectr.
Buchwald, V. T., MSc <i>Lond.</i> , BSc	Lectr.
Fairbairn, W. McA., MA <i>Glas.</i> , BA <i>Camb.</i> , PhD <i>Birm.</i>	Lectr.
Shepherd, J. A. H., MSc PhD <i>Lond.</i>	Lectr.
Shutrick, H. B., BSc PhD <i>Leeds</i>	Lectr.
Wiegold, J., MSc PhD	Lectr.
Wallington, P. A., MA <i>Camb.</i>	Lectr.
Bullough, R. K., BA <i>Camb.</i> , PhD <i>Leeds</i>	Lectr.
Foster, F., BScTech PhD	Lectr.
James, R. A., BA <i>Camb.</i>	Asst. Lectr.

**Modern Languages**

Jackson, H. S., MA	Lectr.
Standring, J., MA <i>Camb. &amp; Manc.</i>	Lectr.
Buxton, C. R., BA <i>Lond.</i> , MA	Lectr.
O'Shea, D., BA <i>Wales</i> , DrPhil <i>Vienna</i>	Lectr.
Duckworth, A. A., BA	Asst. Lectr.
Pinch, A. H., BA <i>Oxon.</i>	Asst. Lectr.
Furness, R. S., BA <i>Wales</i>	Asst. Lectr.
Mullineaux, F. W., BA <i>Camb.</i>	Asst. Lectr.

**Physics, see also above**

Lipson, H. S., DSc <i>Liv.</i> , MA <i>Camb.</i> , MScTech, FIP, FRS	Prof., Dir. of Labs.
Taylor, C. A., BSc <i>Lond.</i> , DSc PhD, FIP	Reader
Hargreaves, A., BSc MScTech PhD, FIP	Sr. Lectr.
Edmunds, I. G., MSc PhD <i>Wales</i> , FIP	Lectr.
Steeple, H., BSc <i>Rdg.</i> , PhD	Lectr.
Fowweather, F., BSc PhD, FIP	Lectr.
Woolfson, M. M., MA <i>Oxon.</i> , PhD, FIP	Lectr.
Stanley, E., BSc PhD <i>Wales</i> , FIP	Lectr.
Geake, J. E., MSc PhD	Lectr.
Diamond, R., BA PhD <i>Camb.</i>	Lectr.
Peskett, Jean M., BSc <i>Glas.</i>	Asst. Lectr.
Darlow, S. F., BA <i>Camb.</i>	Asst. Lectr.

**Textile Industries**

Morton, W. E., MScTech, FTI	Arkwright Prof.
Vincent, J. J., MSc <i>Lond.</i> , FTI	Prof., Dir. of Labs.
Hearle, J. W. S., MA <i>Camb.</i> , PhD, FIP	(Textile Technol.) Sr. Lectr.
Chirnside, J.	(Textile Technol.) Lectr.
Taylor, J. S., MScTech	(Textile Technol.) Lectr.
Essam, J. M., MScTech, FTI	(Textile Technol.) Lectr.
Latham, A. M., MScTech	(Textile Technol.) Lectr.
Duxbury, V., BScTech	(Textile Technol.) Lectr.
Wray, G. R., MScTech	(Textile Technol.) Lectr.
Cusick, G. E., MScTech	(Textile Technol.) Lectr.
Lord, P. R., BSc(Eng) <i>Lond.</i>	(Textile Technol.) Lectr.
Smith, J. B., BScTech	Asst. Lectr.

**THEOLOGY****Biblical Criticism and Exegesis**

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Evans, Rev. O. E., MA <i>Leeds</i> , BD <i>Lond.</i>	(O.T.) Lectr.
Anderson, Rev. A. A., BD <i>Lond.</i> , BA <i>Oxon.</i>	(O.T.) Lectr.

**Christian Ethics**

Preston, Rev. Canon R. H., BSc(Econ) *Lond.*,  
MA *Oxon.* Sp. Lectr.

**Comparative Religion**

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MA *Leeds & Manc.* Prof.  
Smith, Rev. D. H., BA BD *Lond.* Lectr.

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PhD BD *Camb.*  
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Scott, Rev. P., BD *Lond.*, DTheol *Marburg*  
†Lectr.  
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Weis, P. R., LenPhil&HistOr *Louvain*, MA  
(Post-Biblical Jewish Studies) Laski  
Reader

Wernberg-Møller, P., CandTheol *Copenhagen*,  
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Latham, J. D., MA DPhil *Oxon.* (Arabic) Lectr.  
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Langford Jones, Winifred Lectr.  
Martin, Joyce, BA *Lond.* Lectr.  
Philbert, Rev. Bro., BSc *N.U.I.* Lectr.  
Augustine, Rev. Bro., MA *Camb.* Lectr.  
Haigh, Shirley S., BSc *Lond.* Lectr.  
Rudd, W. G. A., MA *Lond.* Organizing Tutor  
Southgate, Vera, BCom MA *Birm.* Organizing Tutor  
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Lectures in the School are also given by the Profs.  
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(Faculty of Technology in the University of Manchester)

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Telephone: Manchester, Central 3266

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Chairman of Council—Councillor M. P. Pariser, MA

Treasurer—A. W. A. Dick-Cleland, BSc *Glas.*, MIEE

Principal—B. V. Bowden, MA PhD *Camb.*, MIEE

Vice-Principal—W. E. Morton, MScTech, FTI

Industrial Vice-Principal—E. J. Dunstan, MSc *Birm.*

Registrar & Secretary to Council—J. Burgess, MA

Bursar—R. G. McComas, MA *Oxon.*

Librarian—L. L. Ardern, FLA

The coll. is the direct descendant of the Manchester Mechanics Inst. founded in rented premises in 1824. The inst. was later transferred to a bldg. erected for the purpose, and in 1883 was reorganized as a technical sch. The present coll. bldg. was opened in 1902 as the Manchester Municipal Sch. (from 1918, Coll.) of Technol.

For further information, see under appropriate headings below.

For staff holding univ. titles, see under 'Technology' on pp. 1108-1110.

Recognized for external lectures in theol. up to degree level: MANCHESTER BAPTIST COLLEGE, Brighton Grove, Rusholme, Manchester, 14 (tel.: Manchester, Rusholme 1131); HARTLEY VICTORIA

METHODIST COLLEGE, Alexandra Road South, Alexandra Park, Manchester, 16 (tel.: Manchester, Chorlton 3593); NORTHERN CONGREGATIONAL COLLEGE, Whalley Range, Manchester, 16

\* Additional Member of the Association of Universities of the British Commonwealth

(tel. : Manchester, Chorlton 5632) ; UNITARIAN COLLEGE, Daisy Bank Rd., Victoria Park, Manchester, 14 (tel. : Manchester, Rusholme 1016).

Recognized for instructn. in maths., phys., chem. and biol. up to inter. standard for BSc and

BScTech : the HARRIS INSTITUTE, Preston, Lancs. (tel. : Preston 4016).

For 3rd yr. of BScTech course in metal mining (at present discontinued) : the CAMBORNE SCHOOL OF METALLIFEROUS MINING, Camborne, Cornwall (tel. : Camborne 2167).

## GENERAL INFORMATION

Owens Coll., named after a Manchester merchant who bequeathed £96,000 for its foundation, was opened in 1851. The Manchester Sch. of Med. was united with it in 1872. The charter of 1880 by which the Victoria Univ. was founded established a federal constitution and made Owens a constituent coll. of the univ. Subsequently Univ. Coll., Liverpool, and Yorkshire Coll., Leeds, were admitted as constituent colls. A new charter was issued on July 15, 1903, reconstituting the univ. under the name of the Victoria Univ. of Manchester and freeing it from liability to admit or remain in assocn. with any coll. other than Owens, and on June 24, 1904, the act for the incorporation of Owens Coll. with the univ. was passed. In 1905, on the establishment of the fac. of technol., the work of univ. standard at the Municipal Sch. (later Coll.) of Technol. was included in the univ. Under a charter granted in 1955 the Coll. of Technol. was establd. in 1956 as the Manchester Coll. of Sci. & Technol.

CONSTITUTION. The governing body of the univ. is the court of governors, whose exec. cttee. is the council; the senate, which consists of all the profs. of the univ., regulates academic matters. Facs. are controlled by their own bds. within the authority granted by the charter. The chancellor presides over the court, the council elects its own chairman, and the vice-chancellor presides over the senate.

Under the charter of 1955 the Coll. of Sci. and Technol. operates under a court and council. Academic matters other than those appropriate to the bd. of the fac. of technol. are regulated by an academic bd.

INCOME (year ended July 31, 1959) excl. Coll. of Sci. and Technol. Total income, £2,348,057 (Treasury grants, 71.9 per cent.; other govt. depts., 2.5 per cent.; fees, 11.5 per cent.; endowments, 4.1 per cent.; local authorities, 1.5 per cent.; other items, 8.5 per cent.).

Income of the Coll. of Sci. and Technol. Total income, £1,244,306 (Treasury grants, 58.6 per cent.; fees, 8.2 per cent.; endowments, 2.2 per cent.; local authorities, 20.8 per cent.; other items, 10.2 per cent.).

UNIVERSITY PRECINCT. Most of the bldgs. erected from time to time during the past 50 years are situated about a mile from the centre of the city. The bldg. for clin. scis. is  $\frac{1}{2}$  mile distant, adjoining principal hosps. The main athletic grounds are at Fallowfield (30 acres), about  $1\frac{1}{2}$  miles distant, and at Wythenshawe (68 acres),

about 3 miles distant. Darbshire House (health centre) is  $\frac{3}{4}$  mile distant.

LIBRARIES. In all, about 700,000 vols.; in addition, there are over 130,000 publicns. in microprint or microfilm. The main library (over 470,000 vols.) is housed in 2 divs.: books concerning the arts and allied facs. in the new bldg.; books on scientific subjs. in the old (Christie) bldg., which also contains the libr. of the Manchester Museum. Med. libr. (over 105,000 vols.) is housed in the med. sch. Libr. for deaf educn. (8613 vols.) is available to all interested in educn. of the deaf. The John Rylands libr. in Manchester includes the famous Althorp libr. and the Crawford MSS. It contains one of the most important collections of early printed books and Bibles in existence, many first editions of English and foreign classics, rare bindings, and an extensive collection of charters, manorial and legal records and family muniments relating to almost every county in England. The ancient Chetham libr. (65,000 vols.) has valuable mediæv. MSS. and printed books of 17th and 18th cents.; it specializes in local hist. and topography. The municipal reference libr. (432,000 vols.) includes a technical and sci. libr. of 84,000 vols. One of the most important sp. reference collections deals with British parliamentary papers from 1833, with a considerable no. of earlier date. The Coll. of Sci. & Technol. libr. (over 44,000 vols.) is devoted to appl. sci. and technol. and receives over 500 journals, of which about half are filed permanently.

TEACHING HOSPITALS. Manchester Royal Inf.; St. Mary's Hs. for Women and Children; Manchester Royal Eye H.; Manchester and Salford H. for Skin Diseases; Royal Manchester Children's H.; Christie H. and Holt Radium Inst.; Manchester Chest Clinic; Withington H.; Crumpsall H.; Ancoats H.; Salford Royal H.; Duchess of York H. for Babies; Booth Hall Children's H.; Hope H.

DARBISHIRE HOUSE HEALTH CENTRE provides: med. care in a district of Manchester; in an exper. area the proper integration of prev. and curative services; and an instrument for undergrad. educn. and for socio-med. res.

LABORATORIES, ETC. Ample equipment for advanced study and res. in all depts. Outstation for physical res. (incl. Nuffield Radio-Astron. Labs.) at Jodrell Bank in Cheshire; lab. for res. in the mechanics of fluids at Barton aerodrome. Exper. grounds for hort. in Manchester and outstation in Cheshire. The Manchester Museum, forming



part of the univ. bldgs., and containing among other sp. depts. the Flinders Petrie Egyptol. collection, is utilized for univ. teaching in zool., bot. and geol.

**SCHOOL OF EDUCATION** (*see also* 'Teaching Staff', *above*). An area trg. organization consisting of the depts. of the fac. of educn. and the following trg. colls.: Bolton Technical Trg. Coll., Manchester Rd., Bolton (tel.: Bolton 5110); Charlotte Mason Coll., Ambleside, Westmorland (tel.: Ambleside 2168); De La Salle Trg. Coll., Hopwood Hall, Middleton, Manchester (tel.: Middleton 4930); Didsbury Trg. Coll., Wilmslow Rd., Manchester 20 (tel.: Manc., Didsbury 1054); Coll. of Housecraft, High St., Manchester 13 (tel.: Manc., Rusholme 4446); Manchester Trg. Coll., Long Millgate, Manchester, 3 (tel.: Manc., Blackfriars 7745); Padgate Trg. Coll., Fearnhead, nr. Warrington (tel.: Warrington 32671); Sedgley Park Coll., Prestwich, Manchester (tel.: Prestwich 2362); Sch. of Teacher Trg., Regional Coll. of Art, All Saints, Manchester, 15 (tel.: Manc., Ardwick 3480).

**FACULTIES, DEANS AND TUTORS.** (1) Arts [incl. sch. of archit.], *dean*: Prof. H. D. Westlake (Greek), *tutor*, J. Marks (French); (2) sci., *dean*: Prof. F. Fairbrother (inorg. chem.), *sr. tutor*: Dr. G. N. Burkhardt (chem.); (3) law, *dean*: . . . . ., *tutor*: . . . . .; (4) med. [incl. dent. and pharm.], *dean*: Prof. G. A. G. Mitchell (anat.), *tutor*: Dr. E. L. Patterson (anat.); *dean of dent. school*, Prof. H. G. Radden (dent. surg.), *tutor to dent. students*: S. D. Hatt (dent. surg.); (5) music, *dean*: Prof. R. A. C. Oliver (educn.); (6) econ. & soc. studies, *dean*: Prof. W. J. M. Mackenzie (govt.), *tutor*: J. Grundy (govt.); (7) theol., *dean*: Prof. S. G. F. Brandon (compar. relig.), *tutor*: Rev. Dr. W. G. Robinson (eccles. hist.); (8) technol., *dean*: Dr. B. V. Bowden; (9) educn., *dean*: Dr. S. Wiseman (educn.).

**ADMISSION.** *See* Appendix II.

**FIRST DEGREES.** 3 yrs. (by sp. permission, grads. of other approved univs., 2 yrs.)—BA pass, hons., BA(Theol), BA(Mus), BSc pass, hons., LLB pass, hons., MusB pass, hons., BA(Econ) hons., BA(Com), BA(Admin), BD (after inter. courses in arts), BScTech; 4 yrs.—BA (hons. in mod. langs.—two langs.—and in Spanish and classical Arabic), BA(TP) pass, hons., BSc (hons. in pharmacy); 5 yrs.—BA (hons. in archit.); 5 yrs. and 1 term—BDS; 6 yrs.—MB ChB. The BA(Com) and BA(Admin) courses can be completed by attendance on evening lectures during not less than 4 sessions.

Hons. students of mod. foreign langs. may count attendance on approved courses for a term at a foreign univ. as equivalent to attendance at Manc.

Minimum attendance in the univ. for graduation—3 yrs., for bachelorships in 2 facs.—5 yrs.

BA with hons. may be obtained in any one of the following schs.: classics, Greek, Latin, Greek & Engl., Latin & Engl., Engl., French, German,

Italian, Russian, Spanish, mod. langs., hist., Greek & anc. hist., Latin & anc. hist., Spanish & classical Arabic, German & philos., Engl. & philos., Engl. & classical Arabic, oriental studies, archit., pol. & mod. hist., geog., mod. hist. with econ. & pol., philos., psychol., maths., biblical studies, maths. & philos.

BSc with hons. may be obtained in any one of the following schs.: maths., engin. (civil, mech., electr., aeron.), phys., chem., zool., physiol., geol., bot., anat., psychol., metall., geog. & anthropol., pharm., gen. sci.

BScTech with hons. may be obtained in any one of the following schs.: mech. engin., electr. engin., civil engin. (civil, municipal or structural engin.), chem. (chem. or colouring matters), paper technol., textile industries (gen. textile technol. or textile engin.), building, phys., chem. engin., fuel technol., metall., maths.

**HIGHER DEGREES.** Open to bachelors normally of 1 yr.'s standing—MA, MSc, MA(Econ), MScTech; 2 yrs.—LLM (1 yr. for persons who graduated LLB with honours in the univ.), MD, MDS, DDS, MEd; 4 yrs.—LLD, MusD, DD; 5 yrs.—ChM; unspecified—DSc. Open to masters or doctors of philosophy of the univ. only: LittD.

Open to grads. of other approved univs. through res. in Manc. during 2 (non-grads. and certain grads., 3) yrs.—MA, MSc, LLM, MDS, MA(Econ), MScTech, MEd (3 yrs. for persons other than those who have gained dipl. in educn. of Manc.). Grads. of other approved univs. of 4 yrs.' (DD 6 yrs.) standing who have obtained the degree of master or one substantially equivalent thereto and spent 2 yrs. in study or res. in Manc. may qualify for the DSc, LLD, DD.

The PhD differs from the LittD and DSc in requiring a definite course of study, and is of a lower standard, though higher than the MA, MSc, and MScTech.

**HONORARY DEGREES.** LittD, DSc, LLD, MusD, DD, MA, MSc, LLM, MA(Econ), MScTech, MEd.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Bacteriol., statistics, advanced study in sci., internat. law, advanced study in econ. & soc. studies, technical sci., audiol.—1 yr. postgrad.; educnl. psychol., 1 yr., for approved teachers or psychologists; DPH, 1 yr., for registered practitioners; DPM, 8 terms, for registered practitioners; town & country planning, 1, 2 or 3 yrs. (full-time or pt.-time) according to qualifs.; educn., 3 yrs. or (by sp. permission) 2 yrs.; community nursing, 4 yrs.; LDS, 5 yrs.; archit., 5 yrs.

**CERTIFICATES.** Psychiatric soc. workers, 1 yr.; theol., 3 yrs.; biblical knowledge, 1 yr.; tech. (assoc. coll. tech.), 3 yrs.; tech. (distinction), 1 yr. after cert. in tech.; grad. cert. in educn., 1 yr. (grads.); teacher's, 1 yr.; art teacher's, 1 yr.; cert. in adult educn., 1 yr. (grads. normally resident outside U.K.); cert. for teachers of the deaf.

1 yr. (grads. and certificated teachers); town and country planning, 2 yrs.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 825.

**FEES.** *Annual fees* (including registration, tuition, exam., graduation and membership of library and, in the case of all full-time students, membership of students' union and athletic union). Bachelor's degrees in the humanities, £56—except for BA hons. in archit., first 3 yrs., £56, 4th and 5th yrs., £31; BA(TP), first 3 yrs., £56, 4th yr., £31; BA(Mus) and MusB, £56, £83: 10s. or £96 according to options selected; BD, £40 (2-yr. course) or £30 (3-yr. course). Bachelor's degrees in sci., £66; in technol., £66: 10s., £80 or £100. MB ChB—first 5 yrs., £67, 6th yr., £34 (fees are also payable for residence for trg. in paediatrics and at the St. Mary's Hosps.); BDS—first 4 yrs., £67: 5s., 5th yr., £37: 5s. Degrees of master and of PhD: (a) not involving lab. work, £36 (MEd, £14); (b) involving lab. work, £46 (technol., £46: 10s., £50 or £60). Other higher degrees: LittD, DSc, LL.D, ChM, MD, DDS, DD, £25 on giving notice of candidature; MusD, £36 per session. Full-time dipls. and certs.: £56 (bacteriol., £66; internat. law, £26; LDS—first 4 yrs., £67: 5s., 5th yr., £37: 5s.; adult educn., £36).

*Diplomas.* Bacteriol., internat. law, community nursing, audiol., £66; statistics, advanced study in econ. & soc. studies, educnl. psychol., £56; advanced study in sci., (a) not involving lab. work, £36, (b) involving lab. work, £46; DPH, £35; DPM, pt. I, £45, pt. II, £90; LDS, first 4 yrs., £67: 5s., 5th yr., £37: 5s.; archit., first 3 yrs., £56, 4th and 5th yrs., £31; town & country planning, full-time, £36, pt.-time, £10; technical sci., £53: 10s., £60 or £80; educn., 2 yrs., £21, 3 yrs., £14. *Certificates.* Psychiatric soc. workers, grad. cert. in educn., cert. for teachers of the deaf, £56; cert. in adult educn., £36; theol., biblical knowledge, £4 per subj. per hour; teacher's cert., art teacher's cert., £5, exam. fee (plus tuition fees payable to coll. attended).

**STUDENT RESIDENCES, I.** For men: Dalton Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1952; principal: P. M. Bromley, MA Oxon.), £169 for 27 weeks, 83 students; Hulme Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1343; warden: Rev. J. Flitcroft, MA), £155 for 27 weeks, 150 students; St. Anselm Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1398; warden: Rev. Canon R. H. Preston, BSc(Econ) Lond., MA Oxon.), £160 for 27 weeks, 71 students; Northern Congregational Coll., Whalley Range, Manchester, 16 (tel.: Manc., Chorlton 5632; principal: Rev. W. G. Robinson, MA Oxon., BA Liv., BD PhD), from £150 per session; Unitarian Coll., Daisy Bank Rd., Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1016; principal: Rev. F. Kenworthy, MA BD), £145 per session; Montgomery House, Alexandra Park, Manchester, 16

(tel.: Manc., Moss Side 3434; warden: C. Hall, BSc), £155 for 27 weeks, variable up to 60; Hartley Victoria Methodist Coll., Alexandra Rd. South, Manchester, 16 (tel.: Manc., Chorlton 3593; principal: Rev. P. Scott, BD Lond., DTheol Marburg), £140 per session; Woolton Hall, Fallowfield, Manchester, 14 (tel.: Manc., Rusholme 7244; warden: G. T. Ashley, BSc MD), £171 per session, 180 students; Needham Hall, Spath Rd., West Didsbury, Manchester, 20 (tel.: Manc., Didsbury 9262; warden: W. R. Ward, MA DPhil Oxon.), £171 per session, 127 students. II. For women: Ashburne Hall, Fallowfield, Manchester, 14 (tel.: Manc., Rusholme 4351; warden: Kathleen G. Gough, BA), £145 per session, approx. 205 students; Langdale Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme 1385; warden: Mrs. Phyllis M. White, BA), £145 per session, 40 students; Ellis Llwyd Jones Hall, Talbot Rd., Old Trafford, Manchester, 16 (tel.: Manc., Trafford Park 3166; warden: Mrs. Edna Singleton), £145 per session, 80 students; St. Gabriel's Hall, Victoria Park, Manchester, 14 (tel.: Manc., Rusholme, 1718; warden: Sr. Maria Benigna, BA), £135 per session, 44 students.

**STAFF RESIDENCE.** Donner House, Oak Drive, Fallowfield, Manchester, 14 (tel.: Manc., Rusholme 1953), provides accomm. for 25 members of staff and sr. res. students at a charge varying from £96 to £156 p.a. plus an addnl. charge of £1: 16s.: 2d. per week in residence.

**STAFF HOUSE** on main univ. site.

The UNIVERSITY UNION occupies a bldg. on main univ. site, and provides social facilities for men and women students.

The FACULTY OF TECHNOLOGY UNION comprises all univ. students in the Coll. of Sci. & Technol. An agreement exists providing reciprocal membership between the faculty of technol. union and the univ. union.

CONVOCATION consists of all grads. since 1914 (earlier grads. admitted on payment of fee of 5s.). The duties and privileges of convocn. include the election of the chancellor of the univ. District groups (Manchester, London, Yorkshire, North-Western, Bristol, Isle of Man, Oxford) of convocn. provide social and other facilities for grads.

MANCHESTER TECHNOLOGY OLD STUDENTS' ASSOCIATION promotes cultural and social activities among past students. Branches exist in London and overseas.

**ADULT EDUCATION** (see also 'Teaching Staff', above). Courses in adult educn. are conducted by the dept. of adult educn. for students in trg. for the teaching profession, and in the evening for the general public. Under the auspices of the jt. cttee. for adult educn. the extra-mural dept. provides facilities for extra-mural study at the univ. and at other centres. Sub-cttees. are concerned with the supervision of work in collaboration with the W.E.A., and with the univ.'s residential coll.: Holly Royde Coll., 30 Palatine

Rd., West Didsbury, Manchester, 20 (tel.: Manchester, Didsbury 4784). Tutorial classes, extension courses, public lectures, residential courses, and other facilities for adult students are arranged.

**APPOINTMENTS BOARD**, 316-324 Oxford Road, Manchester, 13. The services of the bd. are open to all students or grads. requiring posts or advice on careers.

**UNIVERSITY MILITARY AND AIR FORMATIONS.** (a) Officers trg. corps (T.A.), C.O.: Lt.-Col. R. St. G. T. Harper; (b) W.R.A.C. sub-unit, admin. officer: Capt. A. L. Shepley-Taylor (W.R.A.C.); (c) univ. air squadron R.A.F., C.O.: S/Ldr. S. A. Harris, DFC.

**STUDENT HEALTH SERVICE.** A consultative and advisory service deals with health educn. amongst students.

**ATHLETIC AND OTHER FACILITIES.** The athletic grounds consist of (a) a ground of about 30 acres at Fallowfield (1½ miles distant), (b) a plot of land of about 3 acres adjoining Old Hall Lane, Fallowfield (1½ miles distant), (c) about 68 acres of land at Wythenshawe (3 miles distant). The athletic grounds of the coll. of sci. and technol. are in Rusholme. The McDougall Centre and Holt Gymnasium (Dir.: R. St. G. T. Harper, MA Oxon.), which are situated close to the univ., provide generous facilities for physical educn. and recreation, including a covered swimming-bath.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Radio telescope appeal fund rose to £65,353; bequest from late Prof. H. D. Haworth, £15,973 for establishment of scholp.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* Woolton Hall (to accomm. 180 men students); Needham Hall (to accomm. 127 men students). *Approaching completion:* refectory, stage 1.

**NEW DEPARTMENTS AND CHAIRS.** Chairs of philos., hist. of art, econometrics, nuclear engin.

**RETIREMENTS.** Prof. H. H. Rowley (Hebrew); Prof. H. Wright Baker (mech. engin., technol.); T. Bevan (mech. engin., technol.); T. H. Blench (forensic med.); R. E. Bowles (structural engin., technol.); R. S. Eaton (mod. langs., technol.); Mrs. Irene M. Horsburgh (warden, Ellis Llywyd Jones Hall); R. L. Newell (surg.); W. C. Till (Coptic).

**RESIGNATIONS.** Prof. J. A. L. Matheson (engin.), apptd. vice-chancellor, Monash; Prof. M. J. Lighthill (appl. maths.), apptd. dir. of R.A.E., Farnborough; I. Boileau (town & country planning), apptd. sr. lectr., Syd.; I. G. Cunnison (soc. anthropol.), apptd. sr. lectr., Khartoum; D. G. Dyer (German), apptd. lectr., Oxford; J. W. Hannay (bot.), apptd. lectr., Imperial Coll., Lond.; T. B. Hollins (educn.),

**PUBLICATIONS.** (1) Periodical: (a) *Calendar* (Sept.), 7s. and 5s.; *Exam. Papers*, 9d.-3s. a set; *Manchester School*, Jan., May and Sept. (economic and commercial), £1 p.a. (\$3 U.S.A.); departmental prospectuses (April-June); *Annual Report of Coll. of Sci. & Technol.* (b) Also publ. by univ. press: publicns. of Chetham Soc., Manchester; *Bulletin of John Rylands libr.*; *Journal of Semitic Studies*; journals and papers of the Rhodes Livingstone Inst., Northern Rhodesia. (c) Student publicns.: *The New Victorian* (mag.), *The News Bulletin*, *Medical School Gazette*. (2) Histories: *The Owens College: its Foundation and Growth, and Connexion with the Victoria Univ.*, by Joseph Thompson, Manchester, J. E. Cornish, 1886. *The Owens College*, by P. J. Hartog, Manchester, J. E. Cornish, 1900. *Chapters in the History of Owens College and of Manchester Univ., 1851-1914*, by E. Fiddes, Manchester Univ. Press, 1937. *Portrait of a University*, by H. B. Charlton, Manchester Univ. Press, 1951.

**UNIVERSITY PRESS**, 316-324 Oxford Rd., Manchester, 13 (see also 'Admin. and Other Staff', above). Establd. 1902. The object of the press is to publish works of learning and res in all branches of knowledge, but more general publishing is also undertaken. All official calendars, prospectuses, etc., of the univ. are also issued by the press. Further information from the sec

apptd. principal, Leeds Day Trg. Coll.; D. A. N. Hoyte (anat.), apptd. sr. lectr., U.C. of West Indies; B. D. Hyams (phys.), to C.E.R.N., Geneva; F. D. Luke (German), apptd. lectr., Oxford; A. H. C. Ratcliff (orthopaed. surg.), to hosp. post; F. A. Rose (biochem.), apptd. to post in Cardiff; J. A. McC. Smith (obstet. & gynaecol.), to hosp. post; J. P. Smith (pathol.), to hosp. post; J. W. Sturgess (phys.), to A.E.R.E., Aldermaston; B. L. Williams (clin. pathol.), to nat. health service post.

**DEATHS.** Emer. Prof. A. H. Gibson (Bever Prof. of engin., 1920-49); Emer. Prof. S. Dobrin (Sir William Mather Prof. of Russian, 1947-55); Lady Ewing (asst. dir., dept. of educn. of the deaf, 1944-49); Sir James Myers (principal, Manchester Coll. of Technol., 1938-51, dir. of sch. of educn., 1951-55); H. E. Buckley (crystallog.); A. Burawoy (chem., technol.); P. Davies (bursar, Manchester Coll. of Sci. & Technol.); J. W. A. Hunter (obstet. & gynaecol.); Elsie I. McGill (curator, zool.).

**HONORARY DEGREES.** *LLD*—Sir Vincent Z. de Ferranti, chairman, Ferranti Ltd.; Lady Ewing, formerly asst. dir., dept. of educn. of the deaf; Sir William H. Pilkington, chairman, Pilkington Bros. Ltd. *LittD*—C. S. Lewis, prof. of mediæval and renaissance Engl., Camb. *DSc*—Sir James Gray, prof. of zool., Camb., pres., British Assocn.

for the Advancement of Science. *MA*—H. T. Blundell, manager, chief Manchester Office, Martin's Bank Ltd.; W. D'Arcy Madden, chairman & managing dir., Dick, Hargreaves & Co. Ltd., Bolton; N. C. Nicholson, poet & critic; F. S. Stancliffe, former pres., Manchester Law Soc.; W. Worthington, asst. sec., Manchester Chamber of Commerce.

## Statistics

### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	5000	405
Women . . .	1328	58
Total . . .	6328	463

Distribution by Faculties. *Arts*, 1527; *econ. & soc. studies*, 465; *educn.*, 384; *law*, 189; *med.*, 708; *music*, 24; *sci.*, 1794; *technol.*, 1643; *theol.*, 57. Total: 6791.

*Included in the figures above are :—*

Postgraduate students, 984.

New admissions, 2104.

Students from other countries, 511. (Countries from which largest numbers came: India, 85;

Iraq, 33; Nigeria, 32; Iran, 28; U.S.A., 22; Hong Kong, 22).

DEGREES AWARDED (1958-59). *Arts*: BA, 313; BA(Theol), 5; BA(Mus), 6; MA, 13. *Econ. & soc. studies*: BA(Econ), 22; BA(Admin), 48; BA(Corn), 45; MA(Econ), 8. *Educn.*: MED, 9. *Law*: LLB, 45; LL.M., 2. *Med.*: MB ChB, 94; BDS, 9; MD, 9; ChM, 1; MDS, 4. *Music*: MusB, 5. *Sci.*: BSc, 411; MSc, 62; DSc, 5. *Technol.*: BScTech, 411; MScTech, 39. *Theol.*: BD, 8. PhD (all facs.): 114.

DIPLOMAS AWARDED (1958-59). *Arts*: archit., 19; town & country planning, 20. *Econ. & soc. studies*: soc. admin., 10. *Educn.*: educn., 19; educnl. psychol., 4; audiol., 4. *Law*: internat. law, 4. *Med.*: LDS, 17; psychol. med., 3; pub. health, 1. *Sci.*: advanced studies in sci., 2; statistics, 2. *Technol.*: chem. engin., 16; indust. admin., 10; personnel management, 6; production engin., 3.

CERTIFICATES AWARDED (1958-59). *Arts*: town & country planning, 14. *Educn.*: grad. cert. in educn., 124; cert. for teachers of the deaf, 57; teacher's cert., 869; art teacher's cert., 30; cert. in teaching handicapped children, 9. *Med.*: psychiatric soc. workers, 10. *Theol.*: bibl. knowledge, 12; theol., 5.

# UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE\*

Founded 1949

Postal Address : Keele, Staffordshire, England

Telephone : Keele Park 371

PRESIDENT—H.R.H. THE PRINCESS MARGARET

VICE-PRESIDENTS—I. DAVIES, OBE, JP ; Alderman A. G. B. OWEN, CBE, JP ; Alderman G. L. BARBER, JP ; Alderman Mrs. A. CHADWICK

PRINCIPAL—(from Oct. 1961) H. M. TAYLOR, CBE, MSc N.Z., MA PhD Camb.

VICE-PRINCIPAL—Professor W. A. C. STEWART, MA PhD Lond.

HONORARY TREASURER—A. P. WALKER, Hon. BA

REGISTRAR—J. F. N. HODGKINSON, MA Oxon.

LIBRARIAN—S. O. STEWART, MA Glas.

## TEACHING STAFF

[† = Part-Time]

### Biology

Gemmell, A. R., BSc PhD Glas., MS Minn. Prof.  
Evans, R. G., MSc PhD Wales Sr. Lectr.  
Badcock, Ruth M., MSc Liv., FLS Lectr.  
Plack, R. L., BSc Lond. Lectr.  
Goodway, K. M., MA PhD Camb. Lectr.  
Campion, Mary, MSc PhD Lond. Lectr.

Andrews, D. P., BA Camb., BSc Lond.

Granada Res. Fellow

Jeffreys, D. A., BSc Lond. Granada Res. Fellow

### Economics

Hugh-Jones, E. M., MA Oxon. Prof.  
Lees, D. S., BSc(Econ) Lond., PhD Nott. Sr. Lectr.  
Bonner, J., BSc(Econ) Lond., BPhil Oxon. Lectr.  
Smyth, R. L., BComSc Belf. Lectr.  
Bhambri, R. S., BA Panj., BSc(Econ) Lond. Asst. Lectr.  
Davison, J. P., BA(Econ) Durh. Asst. Lectr.  
Shaw, R., MA Aberd., BPhil Oxon. Asst. Lectr.

### Education

Stewart, W. A. C., MA PhD Lond. Prof.  
Halliwell, H. F., BSc Lond., FRIC Sr. Lectr.  
Charlton, K., MA EdB Glas. Lectr.  
Perrott, Mrs. P. Elizabeth, MSc Wales, PhD Manc., FLS Lectr.  
Wilson, Mary H., MA Glas., BSc(Econ) Lond. Lectr.  
Paffard, M. K., BA Brist. Lectr.  
Halmos, P., BA PhD Lond., DrJuris Bud. Lectr.  
Cantor, L. M., MA Lond. Lectr.  
Eden, Alice, BA Liv. & Lond. Lectr.  
Hayley, H. W. B., BSc Lond. †Lectr.

### Chemistry

Springall, H. D., MA BSc DPhil Oxon., FRIC Prof.  
McWeeny, R., BSc Leeds, DPhil Oxon. (on leave) Sr. Lectr.  
Plesch, P. H., MA Camb., PhD Manc., FRIC Lectr.  
Millar, I. T., BSc Lond., PhD Camb., FRIC Lectr.  
Nyburg, S. C., BSc Lond., PhD Leeds Lectr.  
Mortimer, C. T., MSc PhD Manc., FRIC Lectr.  
Jones, G., BSc PhD Sheff. Lectr.

### Classics

Charlton, J. M. T., MA Manc., BA Camb. Prof.  
Rayne, R. N., DFC, MA Oxon. Lectr.  
Hill, E. R., MA N.Z. & Camb. Lectr.  
Nussbaum, G. B., BA R'dg., MA Birm. Asst. Lectr.  
Hall, A. S., BA Oxon., MA Aberd. Asst. Lectr.

### Communication

MacKay, D. M., BSc St.And., PhD Lond. Granada Res. Prof.

### English Language and Literature

Lawlor, J. J., MA Oxon. Prof.  
Harvey, W. J., MA Oxon. Lectr.

\* Associate Member of the Association of Universities of the British Commonwealth

Lloyd, M. W., MA BLitt *Oxon.*  
 Killham, E. J., MA *Lond.*  
 Pearson, G., BA *Oxon.*  
 Raw, Barbara, MA *Lond.*  
 Jamieson, M. S., MA *Aberd.*

Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

Varty, E. K. C., BA PhD *Nott.* (French) Lectr.  
 Norrish, P. J., MA PhD *Camb.* (French) Lectr.  
 Subiotto, A. V., MA *Lond.* (German) Lectr.  
 Forsyth, J., MA *Edin.* (Russian) Asst. Lectr.  
 Murphy, Ruth, BA *Sheff.*, DU *Paris*  
 (French) Asst. Lectr.  
 Holmes, F. A., BA *Sheff.*, BLitt *Oxon.*

Asst. Lectr.

### Geography

Beaver, S. H., MA *Lond.*, FGS, FRMetS Prof.  
 Williams, W. M., MA *Wales* Sr. Lectr.  
 Cole, Monica M., BSc PhD *Lond.*, FRMetS

Lectr.  
 Lectr.

Walton, A. D., BA *Lond.*, MA *Wis.*  
 Naylor, J., BA PhD *Birm.*

### Moral and Political Philosophy

Teale, A. E., BA *Leeds*, BLitt *Oxon.* Prof.  
 Montefiore, A. C., MA *Oxon.* Sr. Lectr.  
 Atkinson, R. F., BA BPhil *Oxon.* Lectr.

### Geology

Cope, F. W., DSc *Manc.*, FGS  
 Miller, T. G., MA *Camb.*, FGS  
 Burnaby, T. P., MA PhD *Camb.*  
 Lambert, J. L. M., BSc *Aberd.*  
 Exley, C. S., MA DPhil *Oxon.*, FGS  
 Thomas, J. E., BA  
 Park, R. G., BSc *Glas.*

Prof.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

### Philosophy

Flew, A. G. N., MA *Oxon.* Prof.  
 Day, J. P. de C., MA BPhil *Oxon.* Sr. Lectr.  
 Moran, J. M., BA Asst. Lectr.  
 Wiredu, J. E., BA *Lond.*, BPhil *Oxon.*  
 Asst. Lectr.

### Physics

Ingram, D. J. E., MA DPhil DSc *Oxon.*,  
 FIP Prof.  
 Davies, D. E., BSc PhD *Wales*, FIP Sr. Lectr.  
 Holloway, D. G., BSc PhD *Brist.* Lectr.  
 Hodgson, J. N., BSc *Lond.*, PhD *Camb.* Lectr.  
 Surplice, N. A., BSc PhD *Birm.* Lectr.  
 Schlapp, D. M., MA PhD *Camb.* Lectr.  
 Lainé, D. C., BSc PhD *S'ton.* Asst. Lectr.

### Historical Theology

Roberts, T. A., BA *Wales*, MA DPhil *Oxon.*

Lectr.

### History

Blake, J. W., MA *Lond.*  
 Leech, H. R., MA *Oxon.*  
 Rolo, P. J. V., MA *Oxon.*  
 Nicholl, D., MA *Oxon.*  
 Hennock, E. P., MA PhD *Camb.*  
 Adams, D. K., BA *Camb.*, MA *Yale*  
 McInnes, A. J. D. M., BA *Wales*  
 Spufford, P., MA *Camb.*

Prof.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

### Political Institutions

Finer, S. E., MA *Oxon.* Prof.  
 Coles, P. H., MA *Camb.* Sr. Lectr.  
 Cairns, Mary B., LL.M. *Brist.*, PhD *Lond.* Lectr.  
 Glover, Mary R., MA *Oxon.* Lectr.  
 Rolo, P. J. V., MA *Oxon.* Lectr.  
 Bealey, F. W., BSc(Econ) *Lond.* Lectr.  
 Erös, J. S., DrPhil *Heidel.*, PhD *Manc.* Lectr.  
 Berrington, H. B., BSc(Econ) *Lond.* Lectr.  
 Blondel, J., LicenDroit *Paris*, BLitt *Oxon.*  
 Asst. Lectr.

### Mathematics

Jones, D. S., MBE, MA *Oxon.*, DSc *Manc.* Prof.  
 Smith, R. C., MSc PhD *Lond.* Lectr.  
 Shaddock, C. J., BA *Camb.* Asst. Lectr.  
 Newman, M. F., MA MSc *Syd.*,  
 PhD *Manc.* Asst. Lectr.  
 Smith, P., BSc PhD *Nott.* Asst. Lectr.  
 Srinivasan, Mrs. Bhama, MA MSc *Madr.*,  
 PhD *Manc.* Asst. Lectr.

### Psychology

Iliffe, A. H., BA *R'dg.* Lectr.  
 Halmos, P., BA PhD *Lond.*, DrJuris *Bud.* Lectr.

### Modern Languages

Brooke, K., BA *Birm.* Prof.  
 North, R. J., MA *Lond.* Reader  
 Broome, J. H., BA PhD *Lond.*, DU *Paris*  
 (French) Lectr.

### Social Studies

Glover, Mary R., MA *Oxon.*  
 Dir. of Soc. Service Trg.  
 Irvine, Mary †Tutor

## ADMINISTRATIVE AND OTHER STAFF

Hon. Legal Adviser : H. Taylor. Hon. Archi-  
 tect : J. R. Piggott, FRIBA. Finance Officer :  
 ..... Asst. Registrar (Estates and Bldgs.) :  
 E. J. Hughes, DPA. Architect & Bldgs. Officer :  
 J. A. Pickavance, FRIBA. Asst. Librarian :  
 Joan E. Friedman, MA *Camb.* Accountant :

A. F. Booth. Principal's Sec. : Judith D.  
 Samuel. Admin. Asst. : Barbara M. Latimer,  
 BA *Lond.* Wardens of Halls of Residence : Mary  
 H. Wilson, MA *Glas.*, BSc(Econ) *Lond.*, and Alice  
 Eden, BA *Liv. & Lond.* (Lindsay Hall) ; R. N.  
 Rayne, DFC, MA *Oxon.*, P. J. V. Rolo, MA

*Oxon.*, and J. P. de C. Day, MA BPhil *Oxon.* (Horwood Hall). Dir. of Phys. Educn. : H. W. B. Hayley, BSc *Lond.* Appts. Officer : H. R. Leech,

MA *Oxon.* Coll. Med. Officer† : J. Scott, MB ChB *Edin.* Domestic Bursar : Eileen M. F. Rolfe.

## GENERAL INFORMATION

The coll. was founded by royal charter in Aug. 1949, and was opened in Oct. 1950. Situated at Keele Hall, where there is an estate of 640 acres, it is about 2 miles west of Newcastle under Lyme.

CONSTITUTION of the coll. follows pattern of mod. English univs. with one important deviation. There is a court, a council and a senate with the usual division of powers and duties, but in addition an academic council, the majority of whose members are reps. of the univs. of Oxford, Manchester and Birmingham, and whose approval is required on all matters of academic importance.

INCOME (1958-59), £330,900. Approx. percentages from different sources : govt., 71 per cent. ; local authorities, 12 per cent. ; fees, etc., 17 per cent.

BOARDS OF STUDIES (1960-61). *Humanities* chairman, Prof. K. Brooke (mod. langs.) ; *sci.* chairman, Prof. D. S. Jones (maths.) ; *soc. scis.* chairman, Prof. S. E. Finer (pol.).

LIBRARY. 200,000 vols.

LABORATORIES. Biol., chem., geog., geol., phys.

ADMISSION. See Appendix II.

FIRST DEGREE AND DIPLOMA COURSES. The charter empowers the coll. to grant its own degree of BA. The 1st yr. of the 4-yr. course consists of a compulsory course of lectures identical for all students but with tutorial work adjusted to individual needs. This course is concerned with the heritage of civilization, present-day problems and the methods and influence of the experimental scis. During the last 3 yrs., students must select not less than 4 subjs., which must include at least 1 from the humanities and soc. scis., and at least 1 from the scis. ; 2 of these 4 subjs. must be studied at principal level throughout the whole of the 3 yrs. Subjs. taken at subsid. level are studied for 1 yr. The BA degree is awarded with hon. where sufficient merit is shown. During these last 3 yrs., an educn. dipl. course may be taken concurrently with the BA studies. This dipl. is recognized by the Ministry of Educn. A social studies dipl. may also be taken with the normal BA studies.

*Transfer courses* are provided in the 1st yr. of the 4-yr. degree course to enable students with no sci. qualif. at G.C.E. advanced level to offer at least 1 sci. subj. as a principal subj.

HIGHER DEGREES. Members of staff and post-

grad. students of the coll. may, under approved conditions, be accepted as candidates for the degrees of MA, MSc and PhD of the univs. of Birmingham and Manchester.

EXTERNAL DEGREES are not awarded.

AFFILIATIONS. The coll. has reciprocal arrangements with both Swarthmore Coll., Pennsylvania, and Reed Coll., Oregon, by which one student is exchanged annually with each coll.

FEES. *Inclusive annual fee* (covering matric., registration, students' union, tuition, exam. and graduation fees), £60. *Residential fees*, £156 per session of 30 weeks.

ASSOCIATION OF PAST STUDENTS. The Keele Soc., an assocn. of past students and other members of the coll.

POSTGRADUATE AWARDS open to grads. of other univs. : see p. 825.

APPOINTMENTS BOARD. (For appts. officer, see 'Admin. and Other Staff', *above*.) The functions of the bd. are to provide information and advice on careers and to assist grads. of the univ. coll. to obtain suitable employment.

RESIDENCE. (For wardens, see 'Admin. and Other Staff', *above*.) The coll. is entirely residential and only under exceptional circumstances is permission given for residence outside. There are at present 2 halls of residence, Lindsay Hall (tel. : Keele Park 319 (Miss Wilson), 358 (Miss Eden)) for women students and Horwood Hall (tel. : Keele Park 303 (Mr. Rolo, the Law-thorns), 384 (Mr. Rayne, Home Farm Residences), and 219 (Mr. Day)) for men students. *Address* (of both halls) : Univ. Coll. of N. Staffs., Keele, Staffs.

STAFF RESIDENCES. It is intended to build residences for all teaching and some other staff. A principal's residence, 65 new houses, 15 bungalows and 4 lodges are available.

STUDENT HEALTH SERVICE. All students examined after admission by coll. med. officer. A bldg. is set apart as a sick bay. Resident matron-nurse.

STUDENTS' UNION. Sep. bldg. available for students' union purposes. All students are members, the annual fee of £5 being included in the composite fee (see *above*). 26 acres of playing fields laid out within the estate.

PUBLICATION. *Prospectus* (annual).

## THE YEAR 1959

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: 2nd stage of new men's halls (to accomm. 73 students and incl. 2 tutors' flats); caretaker's bungalow; 11 brick garages.

NEW DEPARTMENTS AND CHAIRS. Granada res. chair in communication.

RESIGNATIONS. Prof. B. R. Williams (econ.), apptd. Robert Ottley prof. of econ., Manc.; Prof. F. A. Vick (phys.), apptd. dep. dir., A.E.R.E., Harwell; E. Corinaldesi (maths.), apptd. lectr., Pisa; R. W. V. Elliott (Engl.), apptd. sr. lectr. in Engl., Adel.; D. A. McAlindon (classics), apptd. to Foreign Office; M. Stone (geol.), apptd. lectr. in geol., Exe.

DEATH. R. B. Henderson (lectr. in historical theol., 1951-54).

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . .	454	—
Women . .	278	—
Total . .	732	—

*Included in the figures above are:—*

Postgraduate students, 34.

New admissions, 189.

Students from other countries, 19.

DEGREES AWARDED (1958-59). BA, 9; BA (hons.), 127.

DIPLOMAS AWARDED (1958-59). DipEd, 36; DipSocStud, 7.



# UNIVERSITY OF NOTTINGHAM\*

Founded 1948; previously established as University College, Nottingham, 1881

Postal Address: University Park, Nottingham, England

Telegrams: University, Nottingham

Telephone: Nottingham 45511

VISITOR—H.M. THE QUEEN

CHANCELLOR—His Grace THE DUKE OF PORTLAND, KG, Hon. LLD

PRO-CHANCELLORS—Alderman Major Sir PHILIP BARBER, Bt., DSO, TD, BA *Camb.*, Hon. LLD;  
Alderman Sir FRANCIS HILL, CBE, MA LLM LittD *Camb.*

VICE-CHANCELLOR—B. L. HALLWARD, MA *Camb.*

PRESIDENT OF COUNCIL—Sir FRANCIS HILL, CBE, MA LLM LittD *Camb.*

TREASURER—The Rt. Hon. LORD HIVES, CH, MBE, Hon. LLD *Camb.*, Hon. DSc

DEPUTY TREASURER—H. B. STONE, OBE, Hon. MA

DEPUTY VICE-CHANCELLOR—Professor H. R. PITT, BA PhD *Camb.*, FRS

REGISTRAR—A. PLUMB, MA *Camb.*

LIBRARIAN—R. S. SMITH, BA *Lond.*, FLA

BURSAR—A. HENDRY, Hon. MA, CA

## TEACHING STAFF

[†=Part-Time]

**Agriculture**, etc., see below

**Botany**, see also Agriculture

Chesters, C. G. C., BSc *Glas.*, MSc PhD *Birm.*,  
FLS Prof.

Holden, H. S., CBE, DSc *Manc.*, FLS  
(Palæobot.) Hon. Reader

Turner, Mrs. Myfanwy, MSc *Wales*, FLS Lectr.

Connell, W. D., BSc *Edin.* Lectr.

Pugh, G. J. F., BSc *Wales*, PhD Lectr.

Pearson, M. C., BSc PhD *Durh.* Lectr.

Cocking, E. C. D., BSc PhD *Brist.* Lectr.

Haughton, Barbara G., BSc PhD *Liv.* Lectr.

Pettet, A., BSc *S'ton.* Asst. Lectr.

1 Demr. Asst. Lectr.

**Chemistry**

Johnson, A. W., BSc PhD *Lond.*

Eley, D. D., MSc *Manc.*, PhD *Manc.* &  
*Camb.*, ScD *Camb.* (Phys. C.) Prof.

Addison, C. C., PhD DSc *Durh.*, FRIC,  
FIP (Inorg. C.) Prof.

Laxton, F. C., TD, BSc *Lond.* Sr. Lectr.

Roberts, J. C., BPharm BSc PhD *Lond.* Sr. Lectr.

Shaw, B. D., MM, TD, BSc PhD *Lond.* Sr. Lectr.

King, T. J., BSc MA DPhil *Oxon.* Sr. Lectr.

Greenwood, N. N., MSc *Melb.*, PhD *Camb.* Sr. Lectr.

Wallwork, S. C., MA DPhil *Oxon.* Lectr.

Timmons, C. J., BSc PhD *Lond.* Lectr.

Addison, W. E., BSc *Glas.*, PhD *Aberd.* Lectr.

Booth, H., MA PhD *Camb.* Lectr.

Cundall, R. B., BSc PhD *St.And.* Lectr.

Parfitt, G. D., BSc PhD *Brist.* Lectr.

Tuck, D. G., BSc PhD *Durh.* Lectr.

Rudham, R., BSc PhD *Brist.* Lectr.

Logan, N., BSc PhD Asst. Lectr.

McKay, K. M., BSc *Aberd.* Asst. Lectr.

Willis, M. R., BSc PhD Asst. Lectr.

2 Demrs.

**Classics**

Thompson, E. A., MA BLitt *Dub.* Prof.

Whittaker, Molly, MA MLitt *Camb.*,  
BD *Lond.* Lectr.

Chalmers, W. R., MA *Edin.* Lectr.

Mattingly, H. B., MA *Camb.* Lectr.

Watson, G. R., MA MLitt *Durh.* Lectr.

**Dairying**, see Agriculture, below

**Economics**

Tew, J. H. B., BSc(Econ) *Lond.*, PhD *Camb.* Prof.

Gabor, A., BSc(Econ) *Lond.* Sr. Lectr.

\* Member of the Association of Universities of the British Commonwealth

Mitchell, Joan E., MA *Oxon.*, PhD Lectr.  
Little, A. J., BA MCom *Melb.* Asst. Lectr.

**Economics, Industrial**

Wells, F. A., OBE, BSc(Econ) PhD *Lond.* Prof.  
Varley, D. E., MA *Camb.* Lectr.  
Skillicorn, M. D., BA PhD Asst. Lectr.  
Morell, A. L., FCA (Acctg.) †Lectr.

**Education**

Haycocks, N., MA *Manc.* Prof.  
Sumner, W. L., BSc *Lond.*, PhD, FLS Reader  
Stewart, A. H., BA *Lond.* Sr. Lectr.  
Flower, N. C., MSc *Durh.* Lectr.  
Gopsill, G. H., MA *Birm.* Lectr.  
McNicol, H., MA *Dub.* Lectr.  
Grove, R. B., MA *Leeds* Lectr.  
Russell-Gebbett, Mrs. Jean P., BSc  
MA *Lond.* Lectr.  
Hinchliffe, G., BA MEd *Leeds* Lectr.  
Brown, M. G., BSc MA *Oxon.* Lectr.  
Grauberg, W., MA *Camb.*, LèS L *Lille* Lectr.  
Wilkins, Joyce L., BA Speech Therapist  
Hitchman, P. J., BA *Lond.*, MEd Speech Specialist

**Engineering, Chemical**

Johnstone, R. E., BScTech *Manc.*,  
DSc *Lond.*, FRIC Lady Trent Prof.  
Cummings, A. D., MSc *Lond.*, PhD Lectr.

**Engineering, Civil**

Coates, R. C., BSc(Eng) *Lond.*, PhD Prof.  
McKay, D., BSc *Leeds*, PhD Sr. Lectr.  
Pell, P. S., BSc PhD Lectr.  
Lenczner, D., BSc *Glas.* Lectr.  
Sherratt, F., BSc *Lond.*, PhD Lectr.  
Sparrow, R. W., BAI *Dub.*, PhD Lectr.  
Cullingford, G., BSc *Birm.* Lectr.

**Engineering, Electrical**

Parton, J. E., BSc PhD *Birm.* Prof.  
Alexander, W., MSc(Eng) *Lond.*, PhD  
(Indust. Electronics) Sr. Lectr.  
Swann, S. A., BSc(Eng) MSc *Lond.*, PhD Lectr.  
Newsome, J. P., BSc(Eng) *Lond.*, MSc Lectr.  
Marsden, A. M., BSc *Manc.* Lectr.  
Wright, A., MSc *Durh.* Lectr.  
Strange, P., BSc PhD Lectr.  
Noton, A. R. M., BSc *Sheff. & Lond.*,  
PhD *Camb.* Lectr.

**Engineering, Mechanical**

Smith, A. G., BSc *Lond.*  
(Thermodyn.) Hives Prof.  
Markland, E., BSc *Manc.*, PhD  
(Fluid Mechanics & Heat Transfer) Sr. Lectr.  
Fessler, H., MSc(Eng) *Lond.*, PhD Sr. Lectr.  
Heginbotham, W. B., MScTech PhD *Manc.*  
(Prodn. E.) Sr. Lectr.  
McCallion, H., BSc(Eng) *Lond.*, PhD Sr. Lectr.

Dudley, B. R., BSc(Eng) *Lond.* Lectr.  
Ollerton, E., BSc PhD Lectr.  
Owen, M. J., BSc *Birm.*, MS *Penn.* Lectr.  
Roylance, T. F., BSc *Lond.* Lectr.  
Franklin, G. J., BSc PhD *Brist.* Lectr.  
Lichtarowicz, A., BSc PhD Lectr.  
Roberts, E. A., BSc (Production E.) Lectr.

**English**

Pinto, V. de S., MA DPhil *Oxon.*, FRSL Prof.  
Hibbard, G. R., MA *Lond.* Sr. Lectr.  
Welland, D. S. R., BA *Lond.*, PhD Sr. Lectr.  
Cameron, K., BA *Leeds*, PhD *Sheff.* Sr. Lectr.  
Boulton, J. T., BA *Durh.*, BLitt *Oxon.*,  
PhD Lectr.  
Page, R. I., MA *Sheff.*, PhD Lectr.  
Rodway, A. E., MA *Camb.*, PhD Lectr.  
Smith, Sheila M., BA *Lond.* Lectr.  
Lee, B. C., MA *Brist.* Asst. Lectr.  
Berry, Hilda M., BA *Lond.* Asst. Lectr.  
Gaskell, R. W., MA *Glas.* Temp. Asst. Lectr.  
Hawthorne, T. S. B., MA *Dub.*  
(Engl. Studies for Overseas Stu-  
dents) Lectr., Tutor

**Fine Art**

Smart, P. A. M., MA *Glas.* Sr. Lectr., Hd. of Dept.  
Reason, C. Fellow

**French**

Thorpe, L., BA PhD *Lond.*, LèS L *Lille*,  
DUParis Prof.  
Christie, J., MA *Glas.*, LèS L *Lyons* Lectr.  
Jolivet, P. A., LèS L DUParis Lectr.  
Burns, C. A., BA PhD *Lond.* Lectr.  
Dawson, F. K., MA PhD *Manc.* Lectr.  
Purkis, Helen M., C., MA *Oxon.*, DUParis Lectr.  
Lucas, H. H., BA R'dg., DUStras. †Lectr.  
Van Ernden, W. G., BA PhD *Lond.* Lectr.  
Dagens, Claire, LèS L *Stras.* Lectrice

**Geography**

Edwards, K. C., MA PhD *Lond.* Prof.  
Fuller, G. Joan, MA PhD *Lond.* Lectr.  
Barnes, F. A., BSc *Lond.* Lectr.  
King, Miss Cuchlaine A. M., MA  
PhD *Camb.* Lectr.  
Cole, J. P., MA Lectr.  
Osborne, K. H., BSc(Econ) PhD *Lond.* Lectr.  
Wheeler, P. T., MA *Aberd.* Asst. Lectr.  
i Demr.

**Geology**

Evans, W. D., MSc *Wales*, PhD *Lond.*, FLS, FGS Prof.  
Richardson, W. A., OBE, BA DSc  
BSc(Eng) *Lond.*, FGS (Petrol.) Hon. Reader  
Elliott, R. B., BSc *Durh.*, PhD, FGS Sr. Lectr.  
Honeyman, A. M., MA BSc *Glas.* Lectr.  
Firman, R. J., BSc PhD *Durh.* Lectr.  
Rowell, A. J., BSc PhD *Leeds*, FGS Lectr.  
Taylor, F. M., BSc PhD *Sheff.* Lectr.  
Cummins, W. A., BSc *Liv.* Lectr.  
Morton, R. D., BSc PhD Asst. Lectr.

**German**

King, K. C., MA *Oxon.*, PhD *Lond.* Prof.  
 Smith, N. H., MA *Oxon.* Lectr.  
 Brett-Evans, D., MA *Wales*, DrPhil *Basle* Lectr.  
 Lucas, R. S., MA BLitt *Oxon.* Lectr.  
 Kloss, G. Lektor

**History**

Roskell, J. S., MA *Manc.*, DPhil *Oxon.*  
 (Mediæv. H.) Prof.  
 Koenigsberger, H. M. G., MA PhD *Camb.*  
 (Mod. H.) Prof.  
 Chambers, J. D., BA PhD *Lond.*  
 (Econ. H.) Prof.  
 Fryer, W. R., MA BLitt *Oxon.* Sr. Lectr.  
 Holt, J. C., MA DPhil *Oxon.* Lectr.  
 Woodward, G. W. O., MA PhD *Dub.* Lectr.  
 Ashton, R., BA PhD *Lond.* Lectr.  
 Coats, A. W., MSc(Econ) *Lond.*,  
 PhD *Johns H.* Lectr.  
 Grenville, J. A. S., BA PhD *Lond.* Lectr.  
 McIntyre, W. D., BA *Camb.*, MA *Wash.*  
 Asst. Lectr.  
 Hamilton, B. F., BA *Lond.* Asst. Lectr.  
 Beecham, H. Audrey, MA *Oxon.* †Lectr.

**Horticulture**, see Agriculture, below

**Law**

Smith, J. C., MA LLB *Camb.* Prof.  
 Webb, P. R. H., MA LLB *Camb.* Lectr.  
 Prichard, A., LLB *Lond.* Lectr.  
 Brownlie, I., BA *Oxon.* Lectr.  
 Hogan, T. B., LLB *Manc.* Lectr.  
 Williams, D. G. T., MA LLB *Camb.* Asst. Lectr.  
 Matheson, Joan M., BL *Glas.* Asst. Lectr.

**Mathematics**

Pitt, H. R., BA PhD *Camb.*, FRS  
 (Pure M.) Prof.  
 Hill, R., MA PhD ScD *Camb.* (Appl. M.) Prof.  
 Prior, L. E., MSc *Lond.* Sr. Lectr.  
 Power, G., MBE, MA *Oxon.*, PhD Sr. Lectr.  
 Jones, E. E., BSc PhD *Wales* Lectr.  
 Jackson, Margaret, MSc *Lond.*, PhD Lectr.  
 Noble, M. E., MA PhD *Camb.* Lectr.  
 Rose, A., BA *Camb.*, DSc *Manc.* Lectr.  
 Copping, J., BA PhD *Lond.* Lectr.  
 Granger, C. W. J., BA PhD Lectr.  
 Knops, R. J., BSc PhD Lectr.  
 Paechter, G. F., MA DPhil *Oxon.* Lectr.  
 Brown, A. L., BA *Camb.* Asst. Lectr.  
 Sewell, M. J., BSc PhD Asst. Lectr.

**Metallurgy**

Cuthbertson, J. W., DSc *Manc.*, FIM  
 Cripps Prof.  
 Lloyd, H. K. M., BSc *Wales*, PhD *Sheff.*  
 Sr. Lectr.  
 Holmes, E., MA *Camb.*, PhD *Birm.* Lectr.  
 Brook, P. A., MA *Camb.*, PhD Lectr.  
 Waterhouse, R. B., MA PhD *Camb.* †Lectr.

**Mining**

Hinsley, F. B., DSc *Birm.* Prof.  
 Whitmore, R. L., BSc *Lond.*, PhD *Birm.* Sr. Lectr.  
 Morris, L. H., BSc *Wales* Lectr.  
 Hackett, P., BSc PhD Lectr.  
 Brown, J. R., BSc PhD Lectr.  
 Hodges, D. J., BSc Lectr.

**Music**

Keys, I. C. B., MA DMus *Oxon.*, FRCO Prof.  
 Laming, F. M., BMus *Lond.* Lectr.  
 Smallman, F. B. R., MA BMus *Oxon.* Lectr.

**Pharmacy**

Trease, G. E., BPharm *Lond.*, DUStras.,  
 FRIC, FLS (Pharmacognosy) Prof.  
 Partridge, M. W., BPharm BSc PhD *Lond.*  
 (Pharm. Chem.) Lord Trent Prof.  
 Turner, H. A., BSc *Lond.*, PhD Sr. Lectr.  
 Barber, H. H., BSc PhD *Lond.*, FRIC Lectr.  
 Cooper, F. C., BPharm BSc *Lond.*, PhD Lectr.  
 Evans, W. C., BPharm BSc PhD *Lond.* Lectr.  
 Hugo, W. B., BPharm PhD *Lond.* Lectr.  
 Gilbert, R. E., BPharm *Wales*, PhD *Birm.* Lectr.  
 Watson, Gertrude M., BPharm *Lond.* Lectr.  
 Vipond, H. J., BSc PhD *Durh.* Lectr.  
 Hardman, R., BPharm BSc PhD *Lond.* Lectr.  
 Grout, R. J., BPharm PhD Lectr.  
 Luff, Elizabeth M., BPharm Asst. Lectr.  
 3 Demrs.

**Philosophy**

Hepburn, R. W., MA PhD *Aberd.* Prof.  
 Lees, J. P., MA *Camb.* (Soc. Philos.) Lectr.  
 McQueen, D. A., BA *S'ton.* Temp. Asst. Lectr.

**Physics**

Bates, L. F., BSc *Brist.*, PhD *Camb.*, DSc *Lond.*,  
 FIP, FRS Lancashire-Spencer Prof.  
 Stevens, K. W. H., MA DPhil *Oxon.*  
 (Theoret. P.) Prof.  
 Davy, N., MM, DSc *Lond.* Reader  
 Standley, K. J., MA DPhil *Oxon.* Reader  
 Woolley, J. C., BA *Camb.*, PhD Sr. Lectr.  
 Nash, W. F., MSc *Wales*, PhD *Manc.* Lectr.  
 Adam, G. D., BSc *St. And.*, PhD Lectr.  
 Phillips, J. H., MC, BSc PhD Lectr.  
 Matthews, J. C., BSc PhD *Leeds* Lectr.  
 Challis, I. J., MA DPhil *Oxon.* Lectr.  
 Rowell, P. M., BSc DPhil *Oxon.* Asst. Lectr.  
 Booth, J. G., BSc PhD *Sheff.* Asst. Lectr.  
 Sheard, F. W., BSc *Durh.* Asst. Lectr.  
 Williams, D. E. G., BSc *Sheff.* Asst. Lectr.  
 1 Demr.

**Psychology**

Sprott, W. J. H., MA *Camb.* Prof.  
 Joynson, R. B., MA BLitt *Oxon.*, PhD Sr. Lectr.  
 Newson, L. J., BSc *Lond.*, PhD Lectr.  
 Douglas, G. O., MA *Camb.* (Clin. P.) †Lectr.

**Slavonic Languages**

Secley, F. J. B. F., MA <i>Oxon.</i>	
	Sr. Lectr., Hd. of Dept.
Partridge, Mrs. Monica A., BA PhD <i>Lond.</i>	Lectr.
Futrell, M. H., BA PhD <i>Lond.</i>	Lectr.
Johnson, B. S., BA	Asst. Lectr.
Kirilloff, A., BA <i>Oxon.</i>	Lector

**Social Science**

Marsh, D. C., MCom <i>Birm.</i>	Prof.
Gowan, I. L., MA <i>Oxon.</i> , BA <i>Wales</i>	
	(Pub. Admin.) Sr. Lectr.
Robertson, Mary F., MA <i>Edin.</i>	Lectr.
Eyden, Joan L. M., BA BSc(Econ) <i>Lond.</i>	Lectr.
Emerson, A. R., PhD <i>Edin.</i> , BA	Lectr.
Willcocks, A. J., BCom PhD <i>Birm.</i>	Lectr.
Rowe, E. A., BA <i>Oxon.</i>	Lectr.
Spelman, Eileen M., OBE, BA <i>Lond.</i>	†Lectr.

**Spanish**

Tate, R. B., MA PhD <i>Belf.</i>	Prof.
Russell-Gebbett, P. S. N., MA <i>Camb.</i>	Lectr.
Connell, G. W., MA <i>Manc.</i>	Lectr.
Puértolas, J. R., BA <i>Madrid</i>	Lector

**Theology**

Richardson, Canon A., MA <i>Liv. &amp; Oxon.</i> , DD <i>Glas. &amp; Oxon.</i>	Prof.
Hanson, Rev. R. P. C., BA DD <i>Dub.</i>	Sr. Lectr.
Leaney, Rev. A. R. C., MA BD <i>Oxon.</i>	Lectr.
McKeating, H., BD MTh <i>Lond.</i>	Asst. Lectr.
Neil, W., MA BD PhD <i>Glas.</i>	†Lectr.
Posen, Rev. J., PhD <i>Lond.</i>	†Lectr.

**Theoretical Mechanics**

Adkins, J. E., PhD DSc <i>Lond.</i>	
	Reader, Hd. of Dept.
Green, W. A., BSc PhD <i>Wales</i>	Lectr.
Spencer, A. J. M., MA PhD <i>Camb.</i>	Lectr.

**Zoology, see also Agriculture, below**

Barrington, E. J. W., MA DSc <i>Oxon.</i> , FLS	Prof.
Aitken, A., BSc <i>Glas.</i>	Lectr.
Young, May R., BSc <i>Edin.</i> , PhD <i>Lond.</i>	Lectr.
Clarke, K. U., BSc <i>Lond.</i> , PhD	Lectr.
Morris, B., BSc <i>Wales</i> , PhD	Lectr.
Morris, R., BSc <i>Lond.</i> , PhD	Lectr.
Kent, A. K., BSc <i>Wales</i>	Asst. Lectr.
Manley, G. H., BSc	Asst. Lectr.

**AGRICULTURE AND HORTICULTURE**

**Agricultural Botany**

Milthorpe, F. L., MScAgr <i>Syd.</i> , PhD <i>Lond.</i>	Prof.
Dent, K. W., BSc PhD <i>Birm.</i>	Lectr.
Edwards, Miriam M., MSc PhD <i>Manc.</i>	Lectr.
Nicolson, T. H., BSc <i>Aberd.</i> , PhD	Lectr.
Whittington, W. J., BSc <i>Wales</i> , PhD	Lectr.
1 Demr.	

**Agricultural Chemistry**

Hallsworth, E. G., BSc PhD <i>Leeds</i>	Prof.
Ling, E. R., MSc <i>Lond.</i> , PhD, FRIC	Sr. Lectr.

Lewis, D., MA *Camb.*, MSc *Wales*,  
PhD *Sheff.*

Crawford, D. V., MA BSc <i>Oxon.</i> , PhD	Lectr.
Norton, G., BSc PhD	Lectr.
Cowan, I. R., MSc <i>Lond.</i>	Lectr.
Cansfield, P. E., BSc	Asst. Lectr.
1 Demr.	

**Agricultural Economics**

.....	Hd. of Dept.
Jones, R. B., MSc <i>Wales</i>	
Mejer, E., MSc <i>Vilna</i> , MScAgric	
Senior, W. S., BSc(Agric) <i>Leeds</i>	
Ingersent, K. A., BSc <i>Aberd.</i> , MS <i>Minn.</i>	
Warley, T. K., MSc	
Evans, H. G., BSc <i>Wales</i>	
Jones, G. E., BA <i>Manc.</i>	

**Agricultural Engineering**

Chatterton, J., DFC, BSc <i>Lond.</i> , MSc	Lectr.
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**Agricultural Microbiology**

Woodbine, M., MSc PhD <i>Manc.</i> , FRIC	Reader
Seaman, A., BSc <i>Lond.</i> , PhD	Lectr.
1 Demr.	

**Agricultural Zoology, see also Zool., above**

Murphy, P. W. E., BAgSc <i>N.U.I.</i> , DPhil <i>Oxon.</i>	Lectr.
Ritchie, J. Y., BSc(Agric) <i>Glas.</i>	Lectr.
1 Demr.	

**Agriculture**

Evins, J. D., BSc <i>R'dg.</i> , MSc(Agric) PhD	Prof.
Lamming, G. E., BSc(Agric) <i>Lond.</i> , MS PhD <i>Ill.</i> (Animal Physiol.)	Reader
Morgan, J. T., MSc <i>Wales</i> , PhD	Sr. Lectr.
McDermott, Mrs. Norah, MBE, MSc(Agric) (Potato Res.)	Lectr.
Bremner, P. M., BSc <i>Edin.</i> , MS <i>Corn.</i> , DipAgric <i>Camb.</i>	Lectr.
Payne, C. G., BSc	Lectr.

**Dairying**

Scott, R., BSc(Agric)	Lectr.
Stein, M., JUDr <i>Prague</i> , BSc PhD <i>Leeds</i>	Lectr.
Buckley, W. R., MSc <i>Lond.</i>	Asst. Lectr.
1 Demr.	

**Horticulture**

Hudson, J. P., MBE, GM, MSc <i>Lond.</i> , PhD	Prof.
Marston, Margaret E., BSc <i>Lond.</i> , MSc(Hort)	Lectr.
Heydecker, W., BSc <i>R'dg.</i> , MSc PhD	Lectr.
Dullforce, Winifred M., MSc	Lectr.
1 Demr.	

**Veterinary Hygiene**

Buxton, J. C., BSc PhD	Hon. Lectr.
Ford, Connie M.	Hon. Lectr.

## INSTITUTE OF EDUCATION

Lewis, Prof. M. M., MA PhD *Lond.* Dir.  
 Daniels, J. C., BSc Med *Durh.*, PhD Tutor  
 Diack, H., MA *Aberd.* Tutor  
 Grayshon, M. C., BA *Leeds* Tutor  
 Maurer, Mrs. Joan, BSc *Manc.* Temp. Tutor  
 Daines, J. W., BD MTh PhD *Lond.* Tutor  
 Land, Claudia E. L., MA *Birm.*, FLA Librarian

## EXTRA-MURAL STUDIES

Wiltshire, H. C., MA *Lond.* (on leave) Dir.  
 Thornton, A. H., MA BCL *Durh.* Actg. Dir.  
 Barley, M. W., BA *R'dg.*, MA, FSA (Archæol.) Sr. Tutor  
 Bayliss, F. J., MA *Oxon.*, PhD (Econ. & Indust. Relns.) Tutor  
 Champion, A., MA *Camb.* [Holland] (Philos.) Tutor  
 Dixon, J. F., MA *Oxon.* [W. Nottinghamshire] (Pol.) Tutor

Douglas, G. O., MA *Camb.* (Psychol.) Tutor  
 Fordham, P. E., BA *Leeds* [N. Nottinghamshire] (Geog.) Tutor  
 Hogarth, C. E., MA *Manc.* [Derby & S. Derbyshire] (Hist.) Tutor  
 James, W., BA [E. & S. Nottinghamshire] (Lit.) Tutor  
 Lilley, S., MSc *Belf.*, PhD *Camb.* (Sci.) Tutor  
 Madgwick, P. J., MA *Oxon.* [N. Leicestershire] (Pol.) Tutor  
 Simpson, S. J., BSc(Econ) *Lond.* (Appl. Econ.) Tutor  
 Smith, A. E., MA *Leeds* [Lindsey] (Local Studies) Tutor  
 Stadler, K. R., BA *Brist.*, MA *Lond.* (Internat. Relns.) Tutor  
 Wassell, R. P., MA *Oxon.* [Services Educn.] (Pol.) Tutor  
 Coates, K. S., BA (Sociol.) Asst. Tutor  
 Rogers, A., MA [Kesteven] (Local Hist.) Asst. Tutor  
 Steele, D. B., BA *Durh.* (Econ.) Asst. Tutor

## ADMINISTRATIVE AND OTHER STAFF

REGISTRAR'S DEPARTMENT. Sr. Asst. Registrar : G. J. Eltringham, MA *Sheff.* Sec. to Sch. of Agric. : H. Harris, BSc(Econ) LLB *Lond.* Asst. Registrar : Glenys M. P. Wortley, MA *Oxon.* Sr. Admin. Asst. : Isabel C. Hutton. Admin. Assts. : Joan M. Crabb, BSc(Econ) *Lond.* ; D. Harrison, BA *Lond.* ; W. K. Brookes, BA *Manc.*

BURSAR'S DEPARTMENT. Finance Officer : A. Bellamy, FCA. Bldgs. Officer : D. L. W. O'Dell. Surveyor : O. D. Maguire. Surveyor (Sch. of Agric.) : C. N. Thompson. Asst. Finance Officer : D. W. Smith, LLB *Lond.* Admin. Assts. : D. J. Gascoyne ; P. McCree ; T. K. Shaw ; Edna Smith.

ADULT EDUCATION CENTRE. Admin. Asst. : K. H. Lawson, MA *Oxon.*

INSTITUTE OF EDUCATION. Admin. Assts. : E. J. Bamford ; A. D. May, BA *Lond.*

LIBRARY. Sub-Librarians : A. G. Mackenzie, MA *Glas.* ; D. Alice Clarke, BA *Lond.* Keeper of MSS. : J. H. Hodson, BA *Manc.*

UNIV. MEDICAL OFFICERS. J. D. Fisher, MC ; Winifred Thompson, MB BS *Lond.*

CAREERS AND APTS. BOARD. Sec. : N. T. Scott, BA *Durh.* Asst. Sec. : N. S. Rogers, MA *Camb.*

WARDENS OF HALLS. Hugh Stewart : W. Neil, MA BD PhD *Glas.* ; Cripps : H. H. Lucas, BA *R'dg.*, DU *Stras.* ; Wortley : R. B. Waterhouse, MA PhD *Camb.* ; Florence Boot : Eileen M. Spelman, OBE, BA *Lond.* ; Florence Nightingale : H. Audrey Beecham, MA *Oxon.*

ACCOMMODATION OFFICER. D. C. Singleton.

ADVISER TO OVERSEAS STUDENTS. W. Neil, MA BD PhD *Glas.*

## GENERAL INFORMATION

The univ. originated in the adult sch. establd. in 1798, the Mechanics' Inst. and the People's Coll., developments leading to the univ. extension lectures inaugurated in Nottingham in 1873—the first in the country—by the Univ. of Cambridge. An anon. gift of £10,000 in 1875 encouraged the corporation of Nottingham to erect a bldg., maintain it, and supply instrcn. The bldg., in Shakespeare St., was opened in 1881 as the Univ. Coll., Nottingham, incorporated by royal charter in 1903. There were at first 4 professorships (lit., phys., chem., nat. sci.).

A large estate some 3 miles W. of Nottingham, giving room for expansion, and new bldgs. com-

pleted in 1928, were provided by the first Lord Trent, after whom they are now named. In 1938 a supplemental charter reconstituted the governing body, providing for much wider representation. The coll. was relieved in 1945 of responsibility for evening and pt.-time educn. in the area ; in 1947 the Midland Agric. Coll. at Sutton Bonington became the coll. sch. of agric., and an inst. of educn. was founded. Since 1948, when the univ. charter was granted, 175 acres have been purchased, bringing the site to a total of 295 acres ; new bldgs., including 2 halls, a biol. bldg., the Portland bldg. containing refectories and students' amenities, a chem. bldg., part of the appl. sci.

bldg. and the educn. & soc. sci. bldg. have been erected, and 21 new professorships have been establ.

**CONSTITUTION.** The supreme governing body of the univ. is the court, which includes the officers, life members, reps. apptd. by local authorities, reps. of churches, members of parliament of the divisions of the city of Nottingham and certain E. Midland constituencies, *ex-officio* members, reps. of staff, students and convocation, of other instns. and socs., incl. schs. and colls., and other persons, 3 of whom are nominated by the lord president of the privy council. The chairman of court is the chancellor. Subject to control by the court, the council is the executive of the univ., responsible for the conduct of all the affairs of the univ. The council consists of the officers, 8 reps. apptd. by court, reps. of local authorities in the E. Midlands area, 7 senate members, 3 reps. apptd. annually by council and 1 rep. of convocation. It controls the management and admin. of all revenue and property through the bursar and his dept. Subject to control by the council, the senate, which is presided over by the vice-chancellor, regulates academic matters. Its other members are the deans, the profs., the dir. of the inst. of educn., indep. hds. of depts., the librarian, 6 elected members of the non-professorial staff and other reps. of fac. bds. as approved by court. To each fac. bd. are assigned specific powers, incl. that of expressing its opinion to senate on any matter relating to the fac.

**INCOME (1958-59).** Total income, £1,102,395. Percentages derived from principal sources: parliamentary grants, 68.3 per cent.; fees, 13.5 per cent.; local authority grants, 6.6 per cent.; endowments, donations and subs., 3.8 per cent.; other income, 7.8 per cent.

**FACULTIES AND DEANS.** *Agric. & hort.*, Prof. F. L. Milthorpe (*agric. bot.*); *appl. sci.*, Prof. J. E. Parton (*electr. engin.*); *arts*, Prof. J. S. Roskell (*hist.*); *educn.*, Prof. M. M. Lewis (*Inst. of Educn.*); *law & soc. scis.*, Prof. K. C. Edwards (*geog.*); *pure sci.*, Prof. D. D. Eley (*phys. chem.*).

**UNIVERSITY PRECINCT.** The univ. site is a park bounded by Univ. Boulevard, Clifton Boulevard, Derby Rd. and Beeston Lane. From a N.-S. ridge across the centre, the land falls to level areas on the E. & W. edges of the park. It is planned that the bldgs. of general use, incl. library and senate house, shall be grouped with the non-sci. facs. on the hill in the centre of the site. The pure and appl. sci. facs. will be on the level area to the E. Halls of residence, each with an associated group of tutors' houses, will stand on the central ridge itself and along the N. & W. perimeters. By concentrating the teaching bldgs. in groups, and by keeping the halls mainly on the edges of the site, it will be possible to preserve the park-like nature of the univ. precinct, with belts of tree-covered lawns and meadows lying between and around the groups of bldgs.

*The sch. of agric.*, comprising the fac. of agric. & hort., is located 10 miles from the univ., between Nottingham, Derby and Loughborough. *Address:* Univ. of Nottingham School of Agriculture, Sutton Bonington, Loughborough (tel.: Kegworth 386).

**LIBRARY.** About 183,000 vols. and pamphlets. Sp. collections incl. the French Revolution & Napoleonic collection, 2000 vols.; the Henry Mellish meteorological collection, 700 vols.; the W. G. Briggs collection of early sch. books and the D. H. Scott collection of 6200 pamphlets on palæobot. The library is an approved repository for manorial documents, and among the more important records are those relating to the Duke of Portland, Earl Manvers, Lord Middleton, Visc. Galway, the Hatfield Chase corp., Mellish Trustees, Newcastle Trustees and the Archdeaconry of Nottingham. Current periodicals number over 500. The main reading rooms accommodate over 400 readers. The library at the sch. of agric. contains over 9000 vols.

**LABORATORIES.** Equipped for res. in all sci. subjs. New labs. in chem., bot. and zool., agric. scis., mining engin. and metall.; labs. for other branches of engin. and for phys. under constrcn.

**MUSEUMS.** Archæological, houses Margidunum Collection (made by the late Dr. F. Oswald) of Roman pottery. Geological. Also scientific collections in various labs. and objects of historical interest distributed about the univ. bldgs. Curator: W. R. Chalmers, MA.

**INSTITUTE OF EDUCATION,** Redcourt, Derby Rd., Nottingham (tel.: Beeston 25-5591) (*see also* 'Teaching Staff', *above*). The inst. is responsible for approving courses and examining students preparing to become teachers, youth leaders and tutors in adult educn. It also provides a variety of services for those engaged in educn. in the area. The constituent colls. of the inst. are the Derby, Kesteven, Lincoln, Loughborough, Matlock, City of Nottingham and Nottinghamshire County Trg. Colls.

**ADMISSION.** *See* Appendix II. Exceptionally, non-members of the univ. may be admitted to lectures by arrangement with the hd. of the dept.

**FIRST DEGREES.** Pass degrees of BPharm, BSc in agric., hort. or dairying, BSc in civil, mech., electr. or mining engin.—4 yrs.; hons. degrees, BPharm, BSc in fac. of pure sci., BSc in fac. of agric. & hort., BSc in fac. of appl. sci.—4 yrs.; hons. degrees, LLB, BA, BMus—3 yrs. Candidates may be exempted from the inter. exam. and the inter. course of study if they have reached a satisfactory standard in a G.C.E. exam. or in a recognized equivalent exam., but in the BA and BMus there is no inter. course and no exemptions are granted. The min. residence in the univ. for graduation is 3 yrs. (under certain conditions grads. of other univs., 2 yrs.).

The LLB, BMus and all courses for BA are hons. courses, although if hons. standard is not reached a pass degree may be awarded. The BA

can be awarded with honrs. in classics, Latin, Greek, anc. hist., Engl., French, Spanish, German, Russian, mediæv. & mod. hist., econ. & soc. hist., theol., music, maths., geog., Engl. & philos., Engl. & econ. & soc. hist., German & philos., philos., psychol., sociol., econ., soc. admin., indust. econ., politics or law.

Hons. students in French, German, Spanish and Russian spend the 3rd term of the 1st yr. at an approved foreign univ. The law dept. prepares students for the bar and solicitors' exams. as well as for the LLB.

All BPharm students follow the same courses for 2 yrs. after inter., and divide into pass and hons. courses for the last yr.

For BSc in pure sci., all students enter for hons. courses in maths., phys., chem., bot., zool., geol., geog., psychol., but may be transferred to a general course after 1 or 2 yrs., and in hons. courses a pass degree may be awarded if hons. standard is not reached.

In the fac. of agric. & hort. all degree students follow the same courses for 2 yrs. after inter., and divide for the last yr. into hons. agric., agric. bot., agric. chem., agric. microbiol., agric. zool., or hort., and pass agric., dairying, or hort.

The 1st yr. course after inter. in appl. sci. is common to all degree students except metall.; in 2nd yr. students specialize in civil, mech., electr. or mining engin., and in 3rd yr. each course divides into a pass and an hons. stream. The 3-yr. post-inter. metall. course is an hons. course, although a pass degree may be awarded if hons. standard is not achieved. In all appl. sci. courses practical experience obtained during vacations, in works or mines as appropriate, is essential.

**HIGHER DEGREES.** DLitt, DSc, DD, LLD, DMus—conferred on grads. of the univ. of at least 7 yrs.' standing, or on grads. of other approved univs. of at least 7 yrs.' standing who have been full-time members of staff of the univ. for at least 4 yrs., for distinguished, substantial and original contributions to learning. PhD—conferred on grads. of this univ., or other approved univs., after normally not less than 2 yrs.' full-time directed res. in the univ.; pt.-time res. for not less than 4 yrs. may be permitted, if substantial lab. work is not involved. MA, LLM, MEd, MPharm, MSc—conferred on grads. of the univ. in the appropriate fac. after res. extending over at least 1 yr. and on grads. of approved univs. after at least 2 yrs.; also conferred on non-grads. under certain conditions, after res. extending over at least 4 yrs. Candidates without the univ. dipl. in educnl. studies cannot be admitted to the MEd course. MSc in mycol.—awarded on an exam. taken after an advanced course of instructn. of at least 1 yr.'s duration.

BD—may be conferred on grads. of approved univs. after at least 3 yrs.' res. (2 yrs. for holders of a higher degree, by exam. or res. in theol.) who pass a qualifying exam. and present a satisfactory thesis; 1st or 2nd class hons. in theol. or a higher degree by exam. or res. in theol. exempts from the qualifying exam.

**HONORARY DEGREES.** DD, LLD, DLitt, DMus, DSc, MA.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Dipl. in English studies for overseas students, 1 yr. (candidates must have qualifs. comparable with those of a British grad.); adult educn., 1 yr. postgrad.; educnl. studies, 2 yrs. pt.-time postgrad. (candidates must have 2 yrs.' approved experience in educn. before admission); religious educn., 1 yr.; dairy sci., 1 yr. postgrad.; dairying, 2 yrs. (candidates must have 4 ordinary level passes in G.C.E. incl. Engl., maths. and a sci. subj., and 12 mos.' approved practical experience); pol., econ. and soc. studies, 4 yrs.' pt.-time attendance at extra-mural courses (candidates must be over 21 and pass an entrance exam.); primary educn., secondary educn., 3-yr. pt.-time courses at Inst. of Educn. (candidates must be trained qualified teachers with 3 yrs.' teaching experience).

**CERTIFICATES.** Cert. in English studies for overseas students, 1 yr.; theological & educnl. studies, 3 yrs. (awarded in conjunction with Paron Congregational Coll.); educn., 1 yr. postgrad.; fuel technol., 3 yrs. (1 yr. for grads. in engin., mining, chem. and phys. of British and other approved univs.).

The cert. in fuel technol. is recognized by the Inst. of Fuels as exempting the holder from pt. 'B' of the exam. for the associate membership of the inst.

**RESEARCH.** Facilities for research in all subjs. mentioned under 'First Degrees' above. A complete list of current res. is given each yr. in the Jan. edition of the univ. *Gazette*.

**FEES.** *Annual fees* (comprising matric., registration, tuition, exam. and graduation fees, and students' union sub.). Bachelor's degrees: BA, BMus, LLB, £56; BSc (without lab. facilities), £56; BSc in pure sci. (with lab. facilities), BPharm, BSc in appl. sci., £66, BSc in agric. and hort., £65 p.a. Postgrad. study or res. (incl. students' union sub.): with lab. facilities—£46 (full-time); without lab. facilities—£36 (full-time). Dipls. and certs. in arts, £53. Dipl. in adult educn., £53, in religious educn., £60; cert. in educn., £71. Dipls. in agric., £62; cert. in fuel technol., £63.

**ACADEMIC YEAR.** Oct. to June; 3 terms of 10 weeks each.

**UNIVERSITY EXTENSION** (see also 'Teaching Staff', above). The dir. of extra-mural studies is hd. of the dept. of extra-mural studies, and is assisted by a dep. dir., 17 full-time members of staff and many pt.-time tutors and lectrs. *Address:* Univ. of Nottingham Adult Educn. Centre, 14 Shakespeare St., Nottingham (tel.: Nottingham 43022). The dept. is responsible for Pilgrim Coll., a non-residential adult coll. in Boston, Lincs. (Warden: A. Champion, MA Camb.)

**PRINCIPAL OPEN AWARDS (SCHOLARSHIPS AND EXHIBITIONS)** offered to students entering the univ. to read for a 1st degree: 5 Foundation scholps. (£80 p.a.); 5 exhibitions (£50 p.a.); 1 Nottm. Co-operative Soc. scholp. (£50 p.a.).

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**CAREERS AND APPOINTMENTS BOARD.** (For sec., see 'Admin. and Other Staff', above.) The bd. gives advice on careers and assists students to obtain posts on completion of their studies, and temporary employment during univ. vacations.

**GRADUATES' ASSOCIATIONS.** *Convocation* consists of all grads. of the univ., together with officers and the academic staff. Its privileges incl. nominating reps. on court and council, and entering into communication with court, council or senate on any matter affecting the univ. The *Association of Past Students* aims at maintaining social contact between past students of the Univ. College, Nottingham, and of the univ. All past registered day students of the univ. coll. and all past students of the univ. are eligible for membership.

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', above.) For men: Hugh Stewart Hall (tel.: Beeston 25-4452), 190 students; Wortley Hall (tel.: Nottingham 75600), 93 students, with annexe Lenton Hurst, adjoining univ. park, 30 students; Cripps Hall (tel.: Beeston 25-8673), 200 students, with annexe Lenton Close, 25 students. For women: Florence Boot Hall (tel.: Beeston 25-4536), 110 students, in univ. park, with annexes, Broadwood, The Oaks and The Pines, 48 students; Florence Nightingale Hall (tel.: Beeston 25-5544), 143 students, with annexes Lenton Fields and Lenton Faves adjoining univ. park, 40 students. At the Sch. of Agric., Sutton Bonington (tel.: Kegworth 386), there are halls for 110 men and 70 women. Fees in all halls are £150 p.a. for single study bedrooms and £140 p.a. for shared study

bedrooms, but the fees are subject to review at any time. Students not in halls or at home must live in univ. registered lodgings.

**UNIVERSITY MILITARY AND AIR FORMATIONS.** The univ. O.T.C. (T.A.) comprises sub-units of infantry, engineers and R.E.M.E. Cadets enlist for 2, 3 or 4 yrs.; pay, allowances and uniform are on normal T.A. scales. Women undergrads. may become members of the W.R.A.C. (T.A.) sub-unit with similar conditions of service and privileges to those of men cadets in the O.T.C. The univ. air squadron is in the home command of the R.A.F., and comprises a flying flight and a technical flight.

**STUDENT ATHLETIC FACILITIES.** The univ. playing fields, nearly 40 acres in extent, adjoin univ. park, and provide for rugby and association football, hockey, lacrosse, cricket, net-ball and tennis. There is a boat-house at Trent Bridge. Indoor games are played in the indoor sports centre in univ. park.

**STUDENTS' UNION.** There is a union of students for the promotion of corporate feeling and the general interest of students and to afford a recognized channel of communication between students and the univ. authorities. All full-time students become members.

**PUBLICATIONS.** *Calendar*—15s., annually (Oct.); *Gazette* (once a term); *Annual Report* (Dec.); *Faculty and Departmental Prospectuses*—1s. 6d., annually (Sept.); *Scholarships, Fellowships and Prizes*—1s., annually; *Courses in English Studies for Overseas Students, Regns. for Higher Degrees, General Regns. and Information for Students*—annually. *Regns. for Matric. and Faculty Admission Requirements.* The *Bulletin of the Inst. of Educn.*—1s. 6d. for 3 issues, publ. once a term. *Students' mags.*: *The Gong*—1s., once a term; *Survey*—1s. once a term; *Union Handbook*—annually (issued free to all students). *The History of the Univ. Coll., Nottingham, 1881-1948*, by A. C. Wood (B. H. Blackwell, Ltd., 1954), 15s.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Nottinghamshire Council of British Empire Cancer Campaign. £20,192 for new cancer res. lab. & equipment.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: Cripps Hall (to accomm. 200 men); mining & fluid mechanics dept.

**NEW DEPARTMENTS AND CHAIRS.** German.

**RETIREMENTS.** W. H. Hosford (extra-mural studies).

**RESIGNATIONS.** D. M. Davies (mech. engin.), apptd. to H.M. inspectorate of schools; C. K. Grant (philos.), apptd. to chair of philos., Durh.; Louisa Holland (Inst. of Educn.), apptd. lectr., Inst. of Educn., Lond.; E. W. Lee (phys.), apptd. sr. lectr., in phys., Sheff.; A. J. Matty

(zool.), apptd. lectr. in pharmacol., St. And.; J. V. Parry (electr. engin.), apptd. lectr., Cambridgeshire Tech. Coll.; K. Rasmussen (agric. econ.), apptd. to post abroad; E. M. Rawstron (geog.), apptd. reader in geog., Queen Mary Coll., Lond.; P. E. Weatherley (bot.), apptd. to regius chair of bot., Aberd. Belinda Butler (library), apptd. to post in Natnl. Central Library; Alison Marsh (library), apptd. asst. librarian, King's Coll., Lond.; Valerie J. Philpott (library), on marriage; P. Sheldon (library), apptd. sub-librarian, Hull.

**DEATHS.** Ald. Sir William Crane (pro-chancellor); F. C. Johnson (hort. manager, sch. of agric.); J. M. R. Watson (lectr. in mining).



**Statistics**

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1727	128
Women . . .	723	21
Total . . .	2450	149

Distribution by Faculties. *Agric.*, 222 ; *appl. sci.*, 343 ; *arts*, 586 ; *educn.*, 151 ; *law & soc. sci.*, 396 ; *pure sci.*, 901. Total : 2599.

Included in the figures above are :—

Postgraduate students, 460.

New admissions, 870.

Students from other countries, 100. (Countries from which largest numbers came : France, 13 ; India, 12 ; Sudan, 9 ; U.S.A., 6 ; Malaya, 6).

DEGREES AWARDED (1958-59). *Agric.* : BSc, 34 ; BSc (hons.), 18 ; MSc, 3 ; PhD, 11. *Appl. sci.* : BSc, 27 ; BSc (hons.), 53 ; MSc, 3 ; PhD, 12. *Arts* : BA, 12 ; BA (hons.), 137 ; BMus (hons.), 4 ; MA, 6 ; PhD, 5. *Educn.* : MEd, 5. *Law & soc. sci.* : BA, 6 ; BA (hons.), 79 ; LLB, 5 ; LLB (hons.), 14 ; MA, 2 ; PhD, 2. *Pure sci.* : BPharm, 17 ; BPharm (hons.), 8 ; BSc, 68 ; BSc (hons.), 118 ; MPharm, 1 ; PhD, 34 ; MSc, 6. Total number of first degrees awarded, 600.

DIPLOMAS AWARDED (1958-59). Dairying, 14 ; Engl. studies for overseas students, 2 ; pol., econ. & soc. studies, 15 ; educn. studies, 9.

CERTIFICATES AWARDED (1958-59). Engl. studies for overseas students, 11 ; educn., 121 ; pharm., 10 ; fuel tech., 1.

# UNIVERSITY OF OXFORD§

Founded in the 12th century

Postal Address : Oxford, England

Cables and Telegrams : University Registry, Oxford

Telephone (Registry) : Oxford 48491 (For telephone numbers of university departments, see p. 1168)

CHANCELLOR—The Rt. Hon. M. H. MACMILLAN, Hon. DCL *Durh.*, Hon. LLD *A.N.U. & Ceyl.*, MA DCL, Hon. Fellow of Balliol College

HIGH STEWARD—The Rt. Hon. LORD SIMONDS, DLitt *R'dg.*, MA Hon. DCL, Hon. Fellow of New College

VICE-CHANCELLOR—A. L. P. NORRINGTON, MA, President of Trinity College

PROCTORS—B. B. LLOYD, [Magd.], MA ; P. M. FRASER, [All S.], MC, MA, FBA

ASSESSOR OF THE CHANCELLOR'S COURT—Sir C. H. M. WALDOCK, [All S.], QC, CMG, OBE, MA DCL

PUBLIC ORATOR—A. N. BRYAN-BROWN, [Worc.], MA

BODLEY'S LIBRARIAN—J. N. L. MYRES, [Ch. Ch.], Hon. LLD *Tor.*, MA, FSA, FRHistS

KEEPER OF THE ARCHIVES—W. A. PANTIN, [Oriol], MA, FBA, FRHistS

REGISTRAR—Sir FOLLIOTT H. SANDFORD, [New], KBE, CMG, MA

SECRETARY OF FACULTIES—C. H. PATERSON, [Corp.], MA

SECRETARY TO THE CURATORS OF THE UNIVERSITY CHEST—H. H. KEEN, [Ball.], MA, FCA

## TEACHING STAFF

[\* = Common University Fund Lecturer (see p. 1162) ; † = Part-Time]

The name of the college of which the teacher is a present member is denoted by one of the abbreviations in the following list. Names of teachers who are also heads, fellows, or lecturers of colleges recur in the college entries on pp. 1145-1161.

### Men's Colleges

All S. All Souls College  
Ball. Balliol College  
Bras. Brasenose College  
Camp. Campion Hall  
Ch. Ch. Christ Church  
Corp. Corpus Christi College  
Exeter Exeter College  
Greyf. Greyfriars  
Hertf. Hertford College  
Jesus Jesus College  
Keble Keble College  
Linc. Lincoln College  
Magd. Magdalen College

### Men's Colleges

Mansf. Mansfield College  
Mert. Merton College  
New New College  
Oriol Oriol College  
Pemb. Pembroke College  
Qu. The Queen's College  
Reg. P. Regent's Park College  
S. Ant. St. Antony's College  
S. Ben. St. Benet's Hall  
S. Cat. St. Catherine's Society  
S. Edm. St. Edmund Hall  
S. Joh. St. John's College  
S. Pet. St. Peter's Hall

### Men's Colleges

Trin. Trinity College  
Univ. University College  
Wadh. Wadham College  
Worc. Worcester College

### Women's Colleges

I.M.H. Lady Margaret Hall  
S. Ann. St. Anne's College  
S. Hil. St. Hilda's College  
S. Hug. St. Hugh's College  
Som. Somerville College

Men's and Women's College  
Nuff. Nuffield College

### Agricultural Economics

Clark, C. G., [Bras.], MA  
Dir., Inst. for Res. in Agric. Econ.

### University Demonstrators

Hunt, K. E., [Exeter], MA *Camb. & Oxon.*  
Hirsch, G. P. H., [Linc.], MA (Rural Soc. Org.)  
Bellerby, J. R., [Qu.], MC, BCom *Leeds*, MA  
*Leeds & Oxon.*

Maunder, A. H., [Linc.], BSc *R'dg.*, MS *Corn.*, MA

Antill, A. G., [S. Cat.], MA  
Beckett, W. H., [Ball.], BSc *Lond.*, MA *Camb. & Oxon.*

### Senior Research Officer

Dixey, R. N., [S. Joh.], CBE, MA  
Dir., Inst. for Agrarian Affairs

§ Member of the Association of Universities of the British Commonwealth

Editor, *Digest of Agric. Econ. Lit.*

Dudman, R. A., [S. Cat.], MA

### Agriculture

Blackman, G. E., [S. Joh.], BA *Camb.*, MA,  
FRS (Rural Econ.) Sibthorpean Prof.  
..... (Soil Sci.) Reader

#### University Demonstrators

Clarke, G. R., [Oriol], BSc MA

Soper, M. H. R., [Qu.], MA

Masefield, G. B., [Ball.], MA

Barry, J. M., [Qu.], MA DPhil

Lucas, R. L., [New], PhD *Camb.*, MA

Clarke, J. R., [S. Joh.], BSc *W. Aust.*, MA DPhil

Higgs, J. W. Y., [Exeter], MA *Camb. & Oxon.*

Harley, J. L., [Qu.], MA DPhil

Beckett, P. H. T., [Wadh.], MA

Smith, D. C., [Qu.], MA DPhil

#### Senior Research Officers

Martin, R. P., [Magd.], MA DPhil

Loughman, B. C., [Linc.], BSc *Wales*, PhD *Camb.*,  
MA

### Anatomy, Human

Clark, Sir Wilfrid E. Le G., [Hertf.],  
DSc *Lond.*, Hon. DSc *Durh.*, Hon.

MD *Melb.*, Hon. LLD *Malaya*, MA,

FRAI, FRCS, FRS (Anat.) Dr. Lee's Prof.

Weddell, A. G. M., [Oriol], MD DSc *Lond.*,  
MA Reader

Barer, R., [Hertf.], MC, MB BS BSc *Lond.*,  
MA Demr.

Crawford, G. N. C., [Exeter], MB BS *Lond.*,  
MA Demr.

Powell, T. P. S., [S. Joh.], MA Demr.

Dick, D. A. T., [Mert.], MB ChB *Glas.*,  
MA DPhil Demr.

Cowan, W. M., [Pemb.], BM MA DPhil Demr.

Meek, G. A., [Magd.], BSc PhD *Lond.*,  
MA Sr. Res. Officer

### Anglo-Saxon, see English

### Anthropology, Physical

Weiner, J. S., [Hertf.], PhD *Lond.*, MSc *Rand*,  
MA Reader

Roberts, D. F. B., [Worc.], MA DPhil Demr.

### Anthropology, Social

Evans-Pritchard, E. E., [All S.], PhD *Lond.*,  
MA, FBA Prof.

Peristiany, J. G., [Oriol], PhD *Camb.*,  
MA DPhil, FRAI Sr. Lectr.

Beattie, J. H. M., [Linc.], BA *Dub.*,  
BLitt MA DPhil Sr. Lectr.

Needham, R., [Mert.], BLitt MA DPhil Lectr.

### Arabic

Beeston, A. F. L., [S. Joh.], MA DPhil  
Laudian Prof.

Walzer, R. R., [Oriol], DPhil *Berl.*, MA,  
FBA (A. & Greek Philos.) Reader

Lewis, G. L., [S. Joh.], MA DPhil

(Islamic Studies) Sr. Lectr.

Jones, A., [Ball.], MA *Camb. & Oxon.*

(Islamic Hist. & Turkish) Lectr.

Richards, D. S., [Mert.], MA Lectr.

### Aramaic and Syriac

Brockington, Rev. L. H., [S. Cat.], BD *Lond.*,  
MA Sr. Lectr.

### Archæology

Hawkes, C. F. C., [Kemble], MA, FRAI,  
FBA, FSA (European A.) Prof.

Robertson, C. M., MA *Camb.*  
(Classical A. & Art) Lincoln Prof.

Richmond, I. A., [All S.], CBE, Hon. LLD  
*Edin.*, Hon. LittD *Leeds & Manc.*,

Hon. DLit *Belf.*, MA, FBA, FSA  
(A. of Roman Empire) Prof.

Boardman, J., [Wadh.], MA *Camb. & Oxon.*  
(Classical A.) Reader

Hulin, P., [Ch. Ch.], MA (Nr. Eastern A.) Lectr.

\*Gray, Dorothea H. F., [S. Hug.], OBE, MA  
(Homeric A.) Lectr.

Baden-Powell, D. F. W., [Oriol], BSc MA  
(Prehistoric A.) Lectr.

Hall, E. T., [New], MA DPhil  
Dir. of Res. Lab. for A. & Hist. of Art

Aitken, M. J., [Wadh.], MA DPhil  
Dep. Dir. of Res. Lab. for A. & Hist. of Art

### Art, see also Archæol.

Wind, E., [Trin.], DPhil *Hamburg*, MA  
(Hist. of A.) Prof.

Zarnecki, G., [All S.], MA *Cracow*,  
PhD *Lond.*, FSA Slade Prof. (1960-61)

Horton, P. F., [New], MA  
(Drawing) Ruskin Master

Pächt, O. E., [Oriol], PhD *Heidel.*, MA,  
FBA (Mediæv. A.) Sr. Lectr.

### Assyriology

Gurney, O. R., [New], MA DPhil, FSA  
Shillito Reader

### Astronomy

Blackwell, D. E., [New], PhD *Camb.*, MA  
*Camb. & Oxon.* Savilian Prof.

Adam, Madge G., [S. Hug.], MA DPhil Demr.

Hindmarsh, W. R., [Wadh.], MA DPhil  
Sr. Res. Officer

### Biochemistry

Krebs, Sir Hans A., [Trin.], MD *Hamburg*,  
Hon. DSc *Chic. & Lond.*, Hon. MD

*Freib.*, Hon. LLD *Glas.*, MA *Camb.*  
& *Oxon.*, FRS Whitley Prof.

Woods, D. D., [Trin.], PhD *Camb.*,  
MA *Camb. & Oxon.*, FRS

(Chem. Microbiol.) Iveagh Prof.  
Reader

Carter, C. W., [Qu.], BM MA

O'Brien, J. R. P., [Pemb.], BSc MA  
(Clin. B.) Reader

Parsons, D. S., [Mert.], MA DM Demr.

Parkes, G. D., [Kemble], BSc MA DPhil, FRIC Demr.  
 Kent, P. W., [Ch. Ch.], BSc PhD *Birm.*, MA DPhil, FRIC Demr.  
 Butt, V. S., [Qu.], BSc PhD *Brist.*, MA (Bot. & B.) Demr.  
 Tucker, R. G., [Ball.], BSc BM MA Demr.  
 Ord, Margery G., [L.M.H.], BSc PhD *Lond.*, MA Demr.  
 Bartley, W., [S. Cat.], PhD *Sheff.*, MA Demr.  
 Peacocke, A. R., [S. Pet.], BSc MA DPhil Demr.

Whitton, R., PhD *Sheff. & Camb.* Demr.  
 Lascelles, June, [Som.], DPhil (Microbiol.) Demr.  
 Pasternak, C. A., [Magd.], BSc MA DPhil Demr.  
 Whitehouse, M. W., [Kemble], BSc MA DPhil Demr.  
 Stocken, L. A., [S. Cat.], BSc *Lond.*, MA DPhil, FRIC Sr. Res. Officer  
 Acheson, R. M., [Qu.], BSc MA DPhil (Human Nutrition) Sr. Res. Officer  
 Cecil, R., [Ball.], DFC, MA DPhil Sr. Res. Officer

# Biometry

Bailey, N. T. J., [Ch. Ch.], MA *Camb. & Oxon.*, DSc Reader  
 Scott, J. F., [Ch. Ch.], MA *Camb. & Oxon.* Demr.  
 Bulmer, M. G., [Mert.], MA DPhil Demr.

# Botany, see also Agric.

Darlington, C. D., [Magd.], PhD *Lond.*, DSc *Lond. & Oxon.*, MA, FRS Sherardian Prof.  
 ..... Reader  
 Clowes, F. A. L., [Magd.], MA DPhil Demr.  
 Butt, V. S., [Qu.], BSc PhD *Brist.*, MA (B. & Biochem.) Demr.  
 Bevan, E. A., [Univ.], BSc *Wales*, PhD *Glas.*, MA Demr.  
 Fuller, K. W., [Mert.], PhD *Camb.*, MA *Camb. & Oxon.* Demr.  
 Woodell, S. R. J., [Pemb.], PhD *Durh.*, MA Demr.  
 Lewis, K. R., [Linc.], MA Demr.  
 Warburg, E. F., [Ch. Ch.], PhD *Camb.*, MA Druce Curator

# Celtic

Foster, I. L., [Jesus], MA *Wales & Oxon.*, FSA Jesus Prof.  
 Chadwick, Mrs. Nora K., MA *Camb.*, FSA, FBA O'Donnell Lectr.

# Chemistry, Inorganic

Brewer, F. M., [Linc.], MBE, PhD *Corn.*, BSc MA, FRIC Reader  
 Irving, H. M. N. H., [S. Edm.], MA DPhil DSc, FRIC Demr.  
 Staveley, L. A. K., [New], MA Demr.  
 Linnett, J. W., [Qu.], MA DPhil, FRS Demr.

Woodward, L. A., [Jesus], PhD *Leip.*, BSc MA Demr.  
 Phillips, C. S. G., [Mert.], MA Demr.  
 Williams, R. J. P., [Wadh.], MA DPhil Demr.  
 Buckingham, A. D., [Ch. Ch.], MSc *Syd.*, PhD *Camb.*, MA *Camb. & Oxon.* Demr.  
 Venanzi, L. M., [Magd.], DiplChem *Kiel*, DrChem *Trieste*, MA DPhil Demr.

# Chemistry, Organic

Jones, E. R. H., [Magd.], DSc *Manc.*, PhD *Wales*, MA, FRS, FRIC Waynflete Prof.  
 Smith, J. C., [New], MSc *N.Z.*, PhD *Manc.*, MA DSc Reader  
 Waters, W. A., [Ball.], PhD *ScD Camb.*, MA *Camb. & Oxon.*, FRS, FRIC (Phys. Org. C.) Reader  
 Barltrop, J. A., [Bras.], BSc MA DPhil Demr.  
 Tomlinson, Muriel L., [S. Hil.], MA *Camb. & Oxon.*, DPhil, FRIC Demr.  
 Polgar, N., [S. Cat.], DPhil *Vienna & Oxon.*, MA Demr.  
 Young, G. T., [Jesus], BSc *Birm.*, PhD *Brist.*, MA, FRIC Demr.  
 Bailey, A. S., [Oriell], BSc MA DPhil Demr.  
 Brown, B. R., [Oriell], MA DPhil Demr.  
 Halsall, T. G., [Magd.], MSc PhD *Manc.*, MA Sr. Res. Officer  
 Whiting, M. C., [Linc.], BSc PhD *Lond.*, MA Sr. Res. Officer  
 Meakins, G. D., [Bras.], MA DPhil Grad. Asst.  
 Thaller, V., [Magd.], Dr *Zagreb*, MA Grad. Asst.

# Chemistry, Physical

Hinshelwood, Sir Cyril N., [Exeter], OM, Hon. ScD *Dub. & Camb.*, Hon. DSc *Lond.*, *Leeds*, *Sheff.*, *Brist.* & *Hull*, Hon. LLD *Wales*, MA DSc Hon. DCL, FRIC, PRS (Chem.) Dr. Lee's Prof.  
 Thompson, H. W., [S. Joh.], CBE, PhD *Berl.*, MA DSc, FRS (Infra-Red Spectroscopy) Reader  
 Bell, R. P., [Ball.], MA, FRS Reader  
 Bowen, E. J., [Univ.], MA DSc, FRS Aldrichian Prælector, Demr.  
 Sutton, L. E., [Magd.], MA DPhil, FRS Demr.  
 Lambert, J. D., [Trin.], MA Demr.  
 Barrow, R. F., [Exeter], BSc *Lond.*, MA DPhil Demr.  
 Richards, R. E., [Linc.], MA DPhil, FRS Demr.  
 Dean, A. C. R., [S. Cat.], BSc *Glas.*, MA DPhil, FRIC Sr. Res. Officer  
 Coles, B. A., [Magd.], MA DPhil  
 Danby, C. J., [Worc.], BSc MA DPhil Grad. Asst.

# Chinese

Hawkes, D., [Ch. Ch.], MA DPhil Prof.  
 Wu, S.-C., [Qu.], MA *Yenching & Oxon.* Sr. Lectr.  
 Watkins, D. E., [S. Ant.], MA Lectr.  
 Bownas, G., [Qu.], MA (C. & Japanese) Lectr.

# Classical Languages and Literatures

Lloyd-Jones, P. H. J., [Ch. Ch.], MA *Camb. & Oxon.* (Gk.) Regius Prof.

Mynors, R. A. B., [Corp.], Hon. DLitt *Durh.*,  
MA *Camb. & Oxon.*, FBA  
(Lat.) Corpus Christi Prof.  
Palmer, L. R., [Worc.], BA *Wales*, DrPhil  
*Vienna*, PhD *Camb.*, MA  
(Compar. Philol.) Prof.  
Barns, J. W. B., [Corp.], MA DPhil  
(Papyrol.) Sr. Lectr.  
Weinstock, S., [Exeter], PhD *Bres.*, MA  
(Roman Religion) Sr. Lectr.

## University Lecturers

Moorhouse, A. C., MA *Camb. & Oxon.*  
(Classical Philol.)  
Hunt, R. W., [Ball.], MA DPhil  
(Palæog. & Transmission of Classical  
Latin Texts) (†)  
Parsons, P. J., [Ch. Ch.], BA  
(Documentary Papyrol.)  
Barbour, Ruth, [S. Hug.], MA  
(Greek Palæog.) (†)

\*Barrett, W. S., [Kebble], MA  
\*Levens, R. G. C., [Mert.], MA  
\*Hardie, C. G., [Magd.], MA  
\*Wells, A. F., [Univ.], OBE, MA  
\*Griffith, J. G., [Jesus], MA  
\*Bolton, J. D. P., [Qu.], MA  
\*Hicken, Winifred F., [L.M.H.], MA DPhil  
\*Russell, D. A. F. M., [S. Joh.], MA  
\*Yorke, E. C., [New], MA *Camb. & Oxon.*  
\*Hartley, Mildred, [Som.], MA *Camb. & Oxon.*  
\*Burton, R. W. B., [Oriell], MA  
\*Bryan-Brown, A. N., [Worc.], MA  
\*Mervyn Jones, D., [Exeter], MA *Camb. & Oxon.*  
\*Bond, G. W., [Pemb.], BA *Dub.*, MA  
\*Nisbet, R. G. M., [Corp.], MA *Glas. & Oxon.*  
\*Stinton, T. C. W., [Wadh.], MA  
\*Gould, J. P. A., [Ch. Ch.], MA *Camb. & Oxon.*  
\*Williams, G. W., [Ball.], MA *Dub. & Oxon.*  
\*Sullivan, J. P., [Linc.], MA *Camb. & Oxon.*  
\*Hubbard, Margaret E., [S. Ann.], MA  
\*Ogilvie, R. M., [Ball.], MA  
\*Reynolds, L. D., [Bras.], MA *Camb. & Oxon.*  
\*Raven, D. S., [Trin.], BLitt MA

Colonial Economic Affairs, see Soc.  
StudiesCommonwealth Government, see Soc.  
Studies

## Computing Laboratory

Fox, L., [Ch. Ch.], MA DPhil DSc Dir.  
Rollett, J. S., [Magd.], MA *Camb. & Oxon.*,  
PhD *Leeds* Sr. Res. Officer  
Mayers, D. F., BA PhD *Camb.*, MA  
Sr. Res. Officer  
Hanscomb, D. C., [Ch. Ch.], BA  
Sr. Res. Officer

## Criminology, see Soc. Studies

## Crystallography

Hodgkin, Mrs. Dorothy M., [Som.], PhD  
*Camb.*, Hon. DSc *Leeds*, BSc MA, FRs  
Title of Prof., Isaac Wolfson Prof. of  
Royal Soc.  
Powell, H. M., [S. Joh.], BSc MA, FRs  
(Chemical C.) Reader

## Divinity, see Theol.

## Eastern Religions and Ethics

Zachner, R. C., [All S.], MA Spalding Prof.

## Economics, see also Soc. Studies

## University Lecturers

Worswick, G. D. N., [Magd.], MA  
\*Hall, Lady (Laura M.), [Som.], MA  
\*Ady, Miss Peter H., [S. Ann.], MA  
\*Kennedy, C. M., [Qu.], MA  
\*Leyland, N. H., [Bras.], MA  
\*Henderson, P. D., [Linc.], MA  
\*Clegg, H. A., [Magd. & Nuff.], MA  
\*Streeten, P. P., [Ball.], MA *Aberd. & Oxon.*  
\*Sargent, J. R., [Worc.], MA  
\*Richardson, G. B., [S. Joh.], BSc *Aberd.*, MA  
\*MacDougall, Sir Donald, [Ball.], Wadh. & Nuff. J.  
CBE, MA  
\*Paul, Mrs. Margaret E., [S. Hil.], BPhil MA  
\*Ross, C. R., [Hertf.], MA  
\*Baragwanath, L. E., [Jesus], BA *Melb.*, BPhil  
MA  
\*Wright, J. F., [Trin.], MA  
\*Black, J., [Mert.], MA  
\*Scott, M. F., [Ch. Ch.], BLitt MA  
\*Hargreaves, E. L., [Oriell], PhD *Lond.*, MA  
\*Stout, D. K., [Univ.], BA  
Andrews, P. W. S., [New & Nuff.], BSc (Econ)  
*Lond.*, MA  
Seton, F., [Ball. & Nuff.], MA DPhil

## Education

Peterson, A. D. C., [Ball.], OBE, MA  
Dir. of Dept.  
Loukes, H., [Jesus], MA Reader  
Griffiths, V. L., [Kebble], OBE, MA Sr. Tutor  
Tomlinson, Leila, [Som.], MA Sr. Tutor  
Goodrich, Rachel M., [S. Hil.], MA Sr. Tutor  
Sprent, R. A. Le G., [Trin.], BSc *Lond.*,  
MA Sr. Tutor  
Heafford, P. E., [Univ.], BSc *Leeds*, MA  
Sr. Tutor  
Yates, M. A., BA *Sheff.* Sr. Tutor  
Burrows, R. G., [S. Pet.], MA Tutor  
Wilkinson, Violet, [S. Hil.], BD *Lond.*,  
MA Tutor  
Hutchings, D. W., MSc *Lond.* Tutor  
Lello, A. J. E., BA *Sheff.* Asst. Tutor  
Martin, J., BSc *Lond.* Asst. Tutor  
Halls, W. D., [Ball.], DPhil Asst. Tutor

## Egyptology

Černý, J., [Qu.], PhD *Prague*, MA, FBA Prof.

**Engineering Science**

- Thom, A., [Bras.], PhD DSc Hon. LLD  
*Glas., MA* Prof.  
Motz, H., [Magd.], DrIng *Vienna*,  
MSc *Dub., MA* Donald Pollock Reader  
Wise, B., [Trin.], MA *Camb. & Oxon.* Demr.  
Campbell, J. D. E., [Mert.], MA *Camb. &*  
*Oxon., DPhil* Demr.  
Wilson, S. S., [Bras.], MA Demr.  
Todd, J. D., [S. Edm.], MA DPhil Demr.  
Bialokoz, J. E., [Magd.], MSc *Birm.,*  
PhD *Lond., MA* Demr.  
Franklin, R. E., [Worc.], BSc PhD *Lond.,*  
MA Demr.  
Lund, P. G., [Ch. Ch.], MA Demr.

**English**

- Wrenn, C. L., [Pemb.], MA  
(Anglo-Saxon) Rawlinson & Bosworth  
Prof.  
Davis, N., [Mert.], MBE, MA *N.Z. & Oxon.*  
(E. Lang. & Lit.) Merton Prof.  
Coghill, N. H. K. A., [Mert.], MA, FRSL  
(E. Lit.) Merton Prof.  
Cecil, Lord David, [New], CH, Hon. LittD  
*Leeds*, Hon. DLit *Lond.*, Hon. LLD *St.*  
*And. & Liv., MA, FRSL*  
(E. Lit.) Goldsmiths' Prof.  
Auden, W. H., [Ch. Ch.], MA (Poetry) Prof.  
Dobson, E. J., [Jesus], BA *Syd., MA DPhil*  
(E. Lang.) Reader  
Walker, Alice, [S. Hil.], MA  
(Textual Criticism) Prof. & Reader  
Turville-Petre, E. O. G., [Ch. Ch.], MA  
BLitt (Anc. Icelandic) Prof. & Reader  
Pollard, G. (Bibliog.) Lyell Reader  
Ker, N. R., [Magd.], BLitt MA, FBA  
(Palæog.) Reader  
Gardner, Helen L., [S. Hil.], MA, FBA  
(Renaissance E. Lit.) Reader  
University Lecturers  
Leishman, J. B., [S. Joh.], BLitt MA  
(E. Lit.) Sr. Lectr.  
Campbell, A., [Ball.], BA *Birm., BLitt MA*,  
FRHistS (Mediæv. E.) Sr. Lectr.  
Griffiths, Mary E., [S. Ann.], MA (E. Lang.)  
Jones, H. J. F., [Mert.], MA (E. Lit.)  
\*Lascelles, Mary M., [Som.], BLitt MA (E. Lit.)  
\*Dyson, H. V. D., [Mert.], BLitt MA  
\*Lea, Kathleen M., [L.M.H.], MA  
\*Bateson, F. N. W., [Hert.], BLitt MA  
\*Bennett, J. A. W., [Magd.], MA *N.Z. & Oxon.,*  
DPhil  
\*Bamborough, J. B., [Wadh.], MA  
\*Bryson, J. N., [Ball.], MA  
\*Horwood, F. C., [S. Cat.], MA  
\*Houghton, Rev. R. E. C., [S. Pet.], MA  
\*Ing, Mrs. Catherine M., [L.M.H.], MA DPhil  
\*Morrison, Christine L., [S. Ann.], MA  
\*Stewart, J. I. M., [Ch. Ch.], MA  
\*Robson, W. W., [Linc.], MA  
\*Brown, Ursula M., [Som.], BLitt MA, FSA  
\*Bayley, P. C., [Univ.], MA  
\*Bednarowska, Mrs. Dorothy M., [S. Ann.], MA

- \*Buxton, E. J. M., [New], MA  
\*Graddon, Pamela O. E., [S. Hug.], PhD *Lond.,*  
MA  
\*Jack, I. R. J., [Bras.], MA *Edin. & Oxon., DPhil*  
\*Kean, Patricia M., [L.M.H.], MA  
\*Ward, A., [Wadh.], MA  
\*Midgley, Rev. E. G., [S. Edm.], MA BLitt  
\*Mackenzie, Elizabeth G. W., [L.M.H.], MA  
\*Alton, R. E., [S. Edm.], MC, MA  
\*Elliott, Anne H., [S. Hil.], MA  
\*Trickett, Mabel R., [S. Hug.], MA  
\*Tolkien, C. R., [New], BLitt MA  
\*Horgan, A. D., [S. Cat.], MA  
\*Browning, I. R., [Pemb.], MA  
\*Bayley, J. O., [New], MA  
\*Mitchell, R. B., [S. Edm.], MA *Melb. & Oxon.,*  
DPhil  
\*Jones, E. L., [Magd.], MA  
\*Syfret, Rosemary H., [Som.], MA *Camb. & Oxon.*  
\*Sisam, Celia, [L.M.H.], MA  
\*Wordsworth, J. F., [Exeter], MA  
\*Ricks, C. B., [Worc.], BA BLitt  
\*Gray, D., [Pemb.], MA *N.Z. & Oxon.*  
\*Burrow, J. A., [Ch. Ch.], MA  
\*Miller, B. D. H., [Bras.], BLitt MA  
\*Glanville, Lucia, [L.M.H.], BLitt MA  
\*Ingham, Mrs. Patricia T., [S. Ann.], MA

**Entomology, see Zool.**

**Ethnology and Prehistory**

- Penniman, T. K., [Trin.], MA, FSA  
Curator of Pitt Rivers Museum  
Demonstrators  
Bradford, J. S. P., [Ch. Ch.], MA, FSA  
Butt, Audrey J., [L.M.H.], BA *Lond., BLitt MA*  
DPhil, FRAI  
Burridge, K. O. L., [Exeter], MA  
Baden-Powell, D. F. W., [Oriell], BSc MA  
(Prehist. Archæol.) Lectr.

**Forestry**

- Laurie, M. V., [S. Joh.], OBE, MA *Camb. &*  
*Oxon.* Prof.  
Chalk, L., [Univ.], MA DPhil, FLS  
(Wood Anat.) Reader

**Demonstrators**

- Day, W. R., [Exeter], OBE, BSc MA  
Jones, E. W., [Magd.], PhD *Camb., MA Camb. &*  
*Oxon.*  
Dimbleby, G. W., [Magd.], MA BSc DPhil  
Handley, W. R. C., [S. Joh.], PhD *Leeds*, MA  
Leyton, L., [Qu.], BSc PhD *Leeds*, MA  
MacGregor, J. J., [Ball.], BSc *Glas., MS Wis.,*  
BLitt MA  
Thompson, G. H., [S. Edm.], BSc MA  
Edwardson, T. E., [Wadh.], BSc *Edin., MA*  
Osmaston, F. C., [S. Joh.], MA  
White, F., [Ball.], BA *Camb., MA*  
Gordon, W. A., [Trin.], MA  
Pitt, C. J. W., [Wadh.], MA  
Hoyle, A. C., [Pemb.], BSc MA (Bot.)

**French**

- Seznec, J. J., [All S.], Dès *L. Paris*, Hon. MA  
*Harv., MA* (F. Lit.) Marshal Foch Prof.

Starkie, Enid M., [Som.], *DèsL Paris*, Hon.  
DLitt *Exe.*, MA DLitt, FRSL  
(F. Lit.) Reader

### University Lecturers

Robson, C. A., [Ch. Ch.], BLitt MA  
(F. Philol. & Old F. Lit.) Sr. Lectr.  
Sayce, R. A., [Worc.], MA DPhil (†)  
Perman, R. C. D., [S. Pet.], MA (†)  
Fargher, R., [S. Edm.], BLitt MA DPhil (†)  
\*Moore, W. G., [S. Joh.], DLitt *Stras.*, MA  
\*Sutherland, Mrs. D. Rhoda, [L.M.H.], MA  
\*Crow, A. D., [Oriell], BLitt MA  
\*Macdonald, I., [Qu.], MA *Glas. & Oxon.*  
\*Barnes, Mrs. Annie M., [S. Ann.], DrPhil  
*Berne*, MA DPhil  
\*Gerard Davis, Mrs. Mary I., [S. Hil.], MA DPhil  
\*Shackleton, R., [Bras.], MA  
\*Armstrong, Mrs. Annette E., [Som.], MA DPhil  
\*Howarth, W. D., [Jesus], MA  
\*Crow, Mrs. Joan, [L.M.H.], MA  
\*Thomas, J. M., [New], MA DPhil  
\*Barnett, F. J., [Trin.], MA  
\*Browne, Sheila J., [S. Hil.], MA  
\*Potts, D. C., [Kebble], MA  
\*Baldick, R. A. E., [Pemb.], MA DPhil, FRSL  
\*Gill, A., [Magd.], CBE, MA *Manc. & Oxon.*  
\*May, Marjorie B., [S. Ann.], BLitt MA  
\*Raitt, A. W., [Exeter], MA DPhil  
\*Spencer, P. H., [S. Cat.], PhD *Camb.*, MA  
*Camb. & Oxon.*  
\*Stewart, D. M., [Wadh.], BA  
\*Whitton, D. F., [Linc.], BLitt MA  
\*Kraillsheimer, A. J., [Ch. Ch.], MA  
\*Daniel, Vera J., [S. Hug.], BA PhD *Lond.*, MA

**Geodesy**, see Surveying

### Geography

Gilbert, E. W., [Hertf.], BLitt MA Prof.  
Gullick, C. F. W. R., [S. Edm.], BLitt  
MA (Econ. G.) Sr. Lectr.  
Martin, A. F., [S. Joh.], MA Sr. Lectr.  
Beckinsale, R. P., [S. Cat.], MA *Lond. &*  
*Oxon.*, DPhil, FRMetS Sr. Lectr.  
Marshall, Mary, [L.M.H.], MA Sr. Lectr.  
Paget, E., [Pemb.], MA Lectr.  
Smith, C. G., [Kebble], MA Lectr.  
Houston, J. M., [Hertf.], MA *Edin. & Oxon.*,  
BSc DPhil Lectr.  
Webb, M. J., [Ball.], MA Lectr.  
Pollock, N. C., [S. Edm.], BA *Cape T.*, BLitt  
MA Lectr.  
Emery, F. V., [Jesus], BLitt MA  
(Hist. G.) Lectr.  
\*Sweeting, Marjorie M., [S. Hug.], PhD *Camb.*,  
MA *Camb. & Oxon.* Lectr.

### Geology

Wager, L. R., [Univ.], ScD *Camb.*, MA *Camb.*  
& *Oxon.*, FRS, FGS Prof.  
Sandford, K. S., [Univ.], TD, MA DPhil  
DSc Reader  
McKerrow, W. S., [Univ.], DSc *Glas.*, MA  
DPhil, FGS Demr.

Edmonds, J. M., [S. Edm.], MA BSc,  
FGS Demr.  
Lambert, R. St. J., [Oriell], PhD *Camb.*,  
MA *Camb. & Oxon.*, FGS Demr.  
Reading, H. G., [Univ.], PhD *Durh.*, MA Demr.  
Brown, G. M., [Univ.], BSc *Durh.*, MA  
DPhil, FGS (Petrol.) Demr.

### German

Stahl, E. L., [Ch. Ch.], MA *Cape T. & Oxon.*,  
PhD *Berne* (G. Lang. & Lit.) Taylor Prof.  
Ganz, P. F., [Hertf.], MA PhD *Lond.* Reader  
University Lecturers  
Barnes, H. G., [S. Edm.], PhD *Tübingen*,  
MA Sr. Lectr.  
McLintock, D. R., [Qu.], MA  
(G. Philol. & Mediæv. G. Lit.)  
McKay, G. W., [Jesus], MA  
Barlow, D., [Qu.], BLitt MA (G. Lit.)  
Sayce, Mrs. Olive L., [S. Hug.], MA (†)  
Calder, W. M., [Qu.], MA (†)  
Cowan, J., [New], MA *Camb. & Oxon.* (†)  
Harvey, Ruth C., [S. Ann.], MA (†)  
Dyer, D. G., [Exeter], MA (†)  
Green, R. F., [Jesus], MA (†)  
\*Pasley, J. M. S., [Bras.], MA  
\*Jacobs, Margaret, [S. Hug.], BLitt MA  
\*Luke, F. D., [Ch. Ch.], MA DPhil

**Greek**, see Classical Langs. & Lits.

### Greek, Byzantine and Modern Language and Literature

Trypanis, C. A., [Exeter], DPhil *Athens*,  
MA Bywater & Sotheby Prof.  
Fletcher, R. A., [Trin.], DSC, MA DPhil  
(Mod. G.) Lectr.

### Hebrew

McHardy, Rev. W. D., [Ch. Ch.], MA  
*Aberd., Edin. & Oxon.*, BD Hon. DD  
*Aberd.*, DPhil Regius Prof.  
Driver, G. R., [Magd.], CBE, MC, Hon. DD  
*Aberd. & Manc.*, Hon. DLitt *Durh.*, MA, ●  
FBA (Semitic Philol.) Prof. & Reader  
Patterson, D., [Ch. Ch.], MA *Manc. & Oxon.*  
(Post-Biblical H.) Cowley Lectr.

### History, Ancient

Syme, Sir Ronald, [Bras.], Hon. DLitt *Durh.*  
& *N.Z.*, MA, FBA Camden Prof.  
Andrewes, A., [New], MBE, MA, FBA  
Wykeham Prof.

### University Lecturers

Lewis, D. M., [Ch. Ch.], PhD *Prin.*, MA  
(Gk. Epigraphy)  
Fraser, P. M., [All S.], MC, MA, FBA  
(Hellenistic H.)  
\*Balsdon, J. P. V. D., [Exeter], MA  
\*Sherwin-White, A. N., [S. Joh.], MA, FBA  
\*Henderson, Mrs. M. Isobel, [Som.], MA  
\*Chilver, G. E. F., [Qu.], MA DPhil  
\*Lepper, F. A., [Corp.], MA

- \*Stevens, C. E., [Magd.], BLitt MA
- \*Gray, E. W., [Ch. Ch.], MBE, BA *Adel.*, MA
- \*Harrison, A. R. W., [Mert.], CBE, MA
- \*Holladay, A. J., [Trin.], MA
- \*Brunt, P. A., [Oriell], MA
- \*Cawkwell, G. L., [Univ.], MA *N.Z. & Oxon.*
- \*Jeffery, Lilian H., [L.M.H.], MA *Camb. & Oxon.*, DPhil, FSA
- \*Forrest, W. G. G., [Wadh.], MA
- \*de Ste. Croix, G. E. M., [New], BA *Lond.*, MA
- \*Stockton, D. L., [Bras.], MA
- \*Meiggs, R., [Ball.], MA
- \*Cuff, P. J., [Pemb.], MA DPhil
- \*Mitchell, Mrs. Barbara M., [S. Ann.], MA
- \*Levick, Barbara M., [S. Hil.], MA DPhil
- \*Frederiksen, M. W., [Worc.], MA

### History, Modern

- Trevor-Roper, H. R., [Oriell], MA Regius Prof.
- Harlow, V. T., [Ball.], CMG, MA DLitt, FRHistS  
(H. of British Commonwealth) Beit Prof.
- Jacob, E. F., [All S.], Hon. LittD *Manc.*, MA DPhil, FBA, FSA, FRHistS  
Chichele Prof.
- Wernham, R. B., [Worc.], MA, FRHistS Prof.
- Gibbs, N. H., [All S.], MA DPhil  
(H. of War) Chichele Prof.
- Mowry, G. E., [Qu.], AB *Miami*, PhD *Wis.*, MA *Wis. & Oxon.*  
(American H.) H. V. Harmsworth Prof.  
(1960-61)
- Habakkuk, H. J., [All S.], MA *Camb. & Oxon.*, FRHistS  
(Econ. H.) Chichele Prof.
- Davies, C. C., [Ball.], BA *Wales*, PhD *Camb.*, MA, FRHistS  
(Indian H.) Reader
- Obolensky, Prince D., [Ch. Ch.], PhD *Camb.*, MA  
(Russian & Balkan Mediæv. H.) Reader
- Hoskins, W. G., [Ch. Ch.], MSc(Econ) PhD *Lond.*, MA, FRHistS  
(Econ. H.) Reader
- Roth, C., [Mert.], BLitt MA DPhil, FRHistS  
(Jewish Studies) Reader
- Chaplais, P. T. V. M., [Wadh.], MA  
(Diplomatic) Reader
- University Lecturers
- Pächt, O. E., [Oriell], PhD *Heidel.*, MA, FBA  
(Mediæv. Art) Sr. Lectr.
- Bennett, G., [New], MA (Colonial H.) Sr. Lectr.
- Crombie, A. C., [All S.], BSc *Melb.*, PhD *Camb.*, MA  
(H. of Sci.) Sr. Lectr.
- Fieldhouse, D. K., [Qu.], MA  
(H. of British Commonwealth) Beit Lectr.
- Edwards, Sir John G., [Jesus], Hon. DLitt *Wales*, MA DLitt, FBA  
(English H.) Ford's Lectr.
- McFarlane, K. B., [Magd.], MA, FSA, FRHistS  
(Late Mediæv. H.)
- Pantin, W. A., [Oriell], MA, FBA, FRHistS  
(Mediæv. Archæol. & H.)
- Taylor, A. J. P., [Magd.], MA, FBA  
(Internat. H.)
- Smalley, Beryl, [S. Hil.], PhD *Manc.*, MA *Manc. & Oxon.*, FRHistS

- Hill, J. E. C., [Ball.], MA, FRHistS  
(16th & 17th Cent. Hist.)
- \*Hurnard, Naomi D., [L.M.H.], MA DPhil, FRHistS
- \*Armstrong, C. A. J., [Hertf.], MA, FRHistS
- \*Southern, R. W., [Ball.], MA, FRHistS
- \*Reeves, Marjorie E., [S. Ann.], PhD *Lond.*, MA, FRHistS
- \*Ramsay, G. D., [S. Edm.], MA DPhil, FRHistS
- \*Gough, J. W., [Oriell], MA
- \*Cox, A. D. M., [Univ.], MA
- \*Markham, F. M. H., [Hertf.], MA
- \*Colliu, E. G., [Bras.], BLitt MA
- \*MacLagan, M., [Trin.], MA, FSA
- \*Prestwich, J. O., [Qu.], MA, FRHistS
- \*Rodger, A. B., [Ball.], MA
- \*Barr, W. G., [Exeter], MA
- \*Bell, H. E., [New], MA *Camb. & Oxon.*, FSA
- \*Joll, J. B., [S. Ant.], MA
- \*Kemp, Betty, [S. Hug.], BA *Manc.*, MA
- \*Bueno de Mesquita, D. M., [Ch. Ch.], PhD *Camb.*, MA *Camb. & Oxon.*, FRHistS
- \*Prestwich, Mrs. Menna, [S. Hil.], MA, FRHistS
- \*Smith, E. H. F., [S. Pet.], MA
- \*Stuart, C. H., [Ch. Ch.], MA
- \*Thompson, A. F., [Wadh.], MA
- \*Watson, J. S., [Ch. Ch.], MA, FRHistS
- \*Whiteman, E. Anne O., [L.M.H.], MA DPhil, FSA, FRHistS
- \*Carr, A. R. M., [New], MA
- \*Colvin, H. M., [S. Joh.], MA, FRHistS
- \*Leyser, K. J., [Magd.], MA
- \*Price, F. D., [Kebble], BLitt MA, FSA, FRHistS
- \*Brock, M. G., [Corp.], MA
- \*Cooper, J. P., [Trin.], MA
- \*Hale, J. R., [Jesus], MA
- \*Pelling, H. M., [Qu.], PhD *Camb.*, MA *Camb. & Oxon.*
- \*Pitt, H. G., [Worc.], MA
- \*Stone, L., [Wadh.], MA
- \*Stoye, J. W., [Magd.], MA DPhil
- \*Green, Rev. V. H. H., [Linc.], MA DD *Camb. & Oxon.*, FRHistS
- \*Wood, Mrs. Susan M., [S. Hug.], BLitt MA
- \*Highfield, J. R. L., [Mert.], MA DPhil
- \*Aston, T. H., [Corp.], MA
- \*Davies, K. G., [New], MA *Camb. & Oxon.*
- \*Mason, J. F. A., [Ch. Ch.], MA DPhil
- \*Hart, Mrs. Jennifer M., [S. Ann.], MA
- \*Ramm, Agatha, [Som.], MA *Lond. & Oxon.*, FRHistS
- \*Morris, Rev. C., [Pemb.], MA
- \*Holmes, G. A., [S. Cat.], PhD *Camb.*, MA *Camb. & Oxon.*
- \*Roberts, J. M., [Mert.], MA DPhil
- \*Mackesy, P. G., [Pemb.], MA
- \*Prest, J. M., [Ball.], MA
- \*Stone, E., [Kebble], MA DPhil
- \*Owen, J. B., [Linc.], BSc *N.Z.*, MA *N.Z. & Oxon.*, DPhil
- \*Dickson, P. G. M., [S. Cat.], MA
- \*Cohn, E. S., [Bras.], MA
- \*Davis, R. H. C., [Mert.], MA, FSA, FRHistS
- \*Cowdrey, Rev. H. E. J., [S. Edm.], MA
- \*Dick, Mrs. Cecilia R., [L.M.H.], MA



- \*Harvey, Barbara F., [Som.], BLitt MA
- \*Firth, A. E., [Univ.], BA
- \*Parker, R. A. C., [Qu.], MA DPhil
- \*Thomas, K. V., [S. Joh.], MA
- \*Lewis, P. S., [All S.], MA
- \*Campbell, J., [Worc.], MA
- \*Walsh, J. D., [Jesus], PhD *Camb.*, MA *Camb. & Oxon.*
- \*Bennett, G. V., [New], MA DPhil
- \*Campbell, A. E., [Kebble], MA
- \*Zeldin, T., [S. Ant.], MA DPhil

**Industrial Relations**, see Soc. Studies

**International Relations**, see Soc. Studies

### Italian

- Grayson, C., [Magd.], MA  
(I. Studies) Serena Prof.
- Reid, T. B. W., [Trin.], MA LLB *Dub.*,  
LèsL *Montpellier*, MA *Manc. & Oxon.*  
(Romance Langs.) Prof.
- Griffith, T. G., [Qu.], BLitt MA Lectr.
- Roaf, Mrs. Evelyn C. M., [Som.], MA  
DPhil Lectr.
- Horne, P. R., [Jesus], BLitt MA Lectr.

**Latin**, see Classical Langs. and Lits.

### Law

- Daube, D., [All S.], PhD *Camb.*, DrJur *Gött.*,  
Hon. LL.D *Edin.*, MA DCL, FBA  
(Civil L.) Regius Prof.
- Hanbury, H. G., [All S.], QC, MA DCL  
(English L.) Vinerian Prof.
- Waldock, Sir C. H. M., [All S.], QC, CMG,  
OBE, MA DCL  
(Public Internat. L.) Chichele Prof.
- Hart, H. L. A., [Univ.], MA (Jurisp.) Prof.
- Lawson, F. H., [Bras.], DrJur *Louvain & Fran.*, Hon. LL.D *Glas.*, DCL, FBA  
(Compar. L.) Prof.
- Honoré, A. M., [Qu.], BA *S.A.*, BCL MA  
(Roman-Dutch L.) Rhodes Reader
- Nicholas, J. K. B. M., [Bras.], MA  
(Roman L.) All Souls Reader
- Payne, D. J., [All S.], LLB *Lond.*, MA  
(English L.) All Souls Reader
- Morris, J. H. C., [Magd.], MA DCL  
(Conflict of Laws) Reader

University Lecturers

- Cross, A. R. N., [Magd.], MA DCL  
(Law of Evidence)
- \*Tylor, T. H., [Ball.], BCL MA
- \*Davidge, C. V., [Kebble], BCL MA
- \*Brown, A. B., [Worc.], BCL MA
- \*Butterworth, J. B., [New], MA
- \*Carter, P. B., [Wadh.], BCL MA
- \*Heuston, R. F. V., [Pemb.], BA LLB *Dub.*, MA
- \*Maudsley, R. H., [Bras.], LLB *Birm.*, BCL MA
- \*Slade, E., [S. Joh.], MA
- \*Hall, G. D. G., [Exeter], MA
- \*Yardley, D. C. M., [S. Edm.], LLB *Birm.*,  
MA DPhil
- \*Burn, E. H., [Ch. Ch.], BCL MA
- \*Treitel, G. H., [Magd.], BCL MA

- \*Davies, J. D., [New], LLB *Wales*, BCL MA
- \*Rogerson, A., [Jesus], MA
- \*Simpson, A. W. B., [Linc.], MA
- \*Guest, A. G., [Univ.], MA
- \*Milsom, S. F. C., [New], MA *Camb. & Oxon.*
- \*Barton, J. L., [Mert.], BCL MA
- \*Harris, D. R., [Ball.], BA LL.M *N.Z.*, BCL MA
- \*Ely, Elizabeth M., [S. Ann.], LL.M Yale, BCL MA
- \*Kaye, J. M., [Qu.], BCL MA
- \*McLaggan, M. A., [Ch. Ch.], MA
- \*Watson, W. A. J., [Oriol], MA DPhil
- \*Reynolds, F. M. B., [Worc.], BCL MA
- Bentley, D. J., [Hertf.], BCL MA

**Local Government**, see Soc. Studies

### Luganda

- Snoxall, R. A., [All S.], MA Lectr.

### Mathematics

- Titchmarsh, E. C., [New], Hon. DSc *Sheff.*,  
MA, FRS (Geom.) Savilian Prof.
- Temple, G. F. J., [Qu.], CBE, PhD  
DSc *Lond.*, MA, FRS, FRAES  
(Nat. Philos.) Sedleian Prof.
- Higman, G., [Magd.], MA DPhil, FRS  
(Pure M.) Waynflete Prof.
- Coulson, C. A., [Wadh.], PhD *Camb.*,  
DSc *St.And.*, MA *Camb. & Oxon.*,  
FRS, FIP Rouse Ball Prof.
- James, I. M., [S. Joh.], MA DPhil Reader  
University Lecturers
- Phillips, E. G., [Kebble], MA DPhil
- Taylor, A. B., [S. Cat.], MA DPhil  
(Fluid Dynamics)
- \*Haslam-Jones, U. S., [Qu.], MA DPhil
- \*Thompson, J. H. C., [Wadh.], MA DPhil
- \*Ferrar, W. L., [Hertf.], MA DSc
- \*Kendall, D. G., [Magd.], MA
- \*Busbridge, Ida W., [S. Hug.], MSc *Lond.*, MA  
DPhil
- \*Thompson, E. C., [Jesus], MA
- \*de Wet, J. S., [Ball.], BSc *Cape T.*, PhD *Prin.*,  
MA *Camb. & Oxon.* (Mathl. Phys.)
- \*Watson, P. D., [Mert.], MA DPhil
- \*Mauldon, J. G., [Corp.], MC, MA
- \*Cobbe, Anne P., [Som.], MA DPhil
- \*Davies, H., [Ch. Ch.], MA DPhil
- \*Gravett, K. A. H., [New], BSc PhD *Lond.*, MA
- \*Rayner, Margaret E., [S. Hil.], MSc *Lond.*, MA  
DPhil
- Kearsley, Mary J., [S. Ann.], MA DPhil

Junior Lecturers

- Robinson, P. D., [Oriol], MA DPhil
- Sutherland, W. A., [Wadh.], MA *St.And. & Oxon.*
- Arthurs, A. M.

**Medicine**, see below

### Metallurgy

- Hume-Rothery, W., [S. Edm.], OBE, PhD  
*Lond.*, Hon. DSc *Manc.*, MA DSc,  
FRS Isaac Wolfson Prof.

Christian, J. W., [Qu.], MA DPhil  
George Kelley Reader  
Martin, J. W., [S. Cat.], PhD *Camb.*, MA  
*Camb. & Oxon.*, DPhil Lectr.  
Altmann, S. L., [Wadh.], MA  
(Theory of Metals) Lectr.  
Hellawell, A., [Keble], MA DPhil Grad. Asst.

**Meteorology**

Brewer, A. W., [Qu.], PhD *Lond.*, MA Reader  
Houghton, J. T., [Jesus], MA DPhil,  
FRMetS Lectr.

**Mineralogy**

Vincent, E. A., [S. Joh.], BSc PhD *R'dg.*,  
MA, FRIC, FGS Reader  
Bown, M. G., [Oriell], PhD *Camb.*, MA  
*Camb. & Oxon.* Demr.

**Music**

Westrup, Sir J. A., [Wadh.], BMus MA  
Hon. DMus, FBA Heather Prof.  
Rubbra, C. E., [Worc.], CBE, Hon.  
DCL *Durh.*, MA Sr. Lectr.  
Harrison, F. L., [Mert.], MusD *Dub.*, MA  
DMus Sr. Lectr.  
Sternfeld, F. W., [Exeter], PhD *Yale*, MA Lectr.  
Andrews, H. K., [New], MusD *Dub.*, MA  
DMus †Lectr.  
Rose, B. W. G., [Magd.], MusB *Camb.*, MA  
*Camb. & Oxon.*, DMus, FRCO  
Choragus & Lectr.  
\*Watson, S., [Ch. Ch.], MA DMus,  
FRCM, FRCO Lectr.  
\*Dalton, H. J. M., [Qu.], MA, FRCO Lectr.  
\*Lumsden, D. J., [New], MusB PhD *Camb.*,  
MA *Camb. & Oxon.*, DPhil Lectr.

**Near East, Modern History of**

Hourani, A. H., [Magd.], MA Lectr.

**Numismatics**

Sutherland, C. H. V., [Ch. Ch.], MA DLitt  
Lectr.  
Kraay, C. M., [Magd.], MA DPhil  
(Greek N.) †Lectr.

**Palæography, see English**

**Papyrology, see Classical Langs. & Lits.**

**Persian**

Morrison, G., [Corp.], MA Lectr.

**Philology, Comparative, see Classical Langs. & Lits.**

**Philosophy**

Kneale, W. C., [Corp.], MA, FBA  
(Moral P.) White's Prof.  
Ryle, G., [Magd.], MA  
(Metaphysical P.) Waynflete Prof.  
Ayer, A. J., [New], MA, FBA  
(Logic) Wykeham Prof.

Farrell, B. A., [Ball.], BLitt MA  
(Mental P.) Wilde Reader  
Wang, H., [Ball.], PhD *Harv.*, MA *Tsing*  
*Hua & Oxon.* (P. of Maths.) Reader  
Minio-Paluello, L., [Oriell], MA DPhil,  
FBA (Mediæv. P.) Reader  
Owen, G. E. L., [Corp.], BPhil MA  
(Anc. P.) Reader  
..... John Locke Lectr.

**University Lecturers**

Harré, H. R., [Univ.], BSc *N.Z.*,  
MA *N.Z. & Oxon.*, BPhil (P. of Sci.)  
\*Mabbott, J. D., [S. Joh.], CMG, Hon. MA  
*Edin.*, BLitt MA  
\*Robinson, R., [Oriell], PhD *Corn.*, BLitt MA  
\*Macnabb, D. G. C., [Pemb.], MA  
\*Paul, G. A., [Univ.], MA *Camb. & Oxon.*  
\*Cox, H. H., [Linc.], MA  
\*Grice, H. P., [S. Joh.], MA  
\*Strawson, P. F., [Univ.], MA  
\*Kneale, Mrs. Martha, [L.M.H.], MA  
\*Corbett, J. P., [Ball.], MA  
\*Crombie, I. M., [Wadh.], MA  
\*Dick, M. W., [Ball.], MA  
\*Foot, Mrs. Philippa R., [Som.], MA  
\*Hare, R. M., [Ball.], MA  
\*Mitchell, B. G., [Keble], MA  
\*Mitchell, D., [Worc.], MA  
\*Turner, Rev. V. G., [Camp.], MA  
\*Warnock, G. J., [Magd.], MA  
\*McKie, J. I., [Bras.], MA  
\*Gardiner, P. L., [Wadh.], MA  
\*Pears, D. F., [Corp.], MA  
\*Quinton, A. M., [New], MA  
\*Sutton, C. W. H., [S. Pet.], MA  
\*Wood, O. P., [Ch. Ch.], MA  
\*Ackrill, J. L., [Bras.], MA  
\*Warnock, Mrs. Helen M., [S. Hug.], BPhil MA  
\*Dummett, M. A. E., [All S.], MA  
\*Simopoulos, J. C., [S. Cat.], BPhil MA  
\*Rees, D. A., [Jesus], MA DPhil  
\*McGuinness, B. F., [Qu.], BPhil MA  
\*Thomson, J. F., [Corp.], DFC, BA *Lond.*,  
MA *Camb. & Oxon.*  
\*Cohen, L. J., [Qu.], MA  
\*Anscombe, G. Elizabeth M. (Mrs. Geach),  
[Som.], MA  
\*Lemmon, E. J., [Trin.], MA  
\*Urmson, J. O., [Corp.], MC, MA  
\*Hinton, J. M., [Worc.], MA *St.And. & Oxon.*  
\*Gosling, J. C. B., [Wadh.], BPhil MA  
\*Malpas, R. M. P., [Hertf.], BPhil MA  
\*Wolfgram, Mrs. Eva M. S., [S. Hil.], MA DPhil

**Physics**

Bleaney, B., [Wadh.], MA DPhil, FRS  
(Exper. Philos.) Dr. Lee's Prof.  
Wilkinson, D. H., [Ch. Ch.], PhD *Camb.*,  
MA *Camb. & Oxon.*, FRS  
(Exper. Phys.) Prof.  
Kuhn, H. G., [Ball.], DPhil *Gött.*, MA,  
FRS (Phys.) Reader

Mendelssohn, K. A. G., [Wadh.], DPhil  
*Berl.*, MA *Berl. & Oxon.* FRS, FIP  
 (Phys.) Reader  
 Kurti, N., [Bras.], PhD *Berl.*, MA, FRS, FIP  
 (Phys.) Reader

#### Demonstrators

Price, F. V., [Worc.], BSc MA DPhil  
 Keeley, T. C., [Wadh.], CBE, MA *Camb. & Oxon.*, FIP  
 Cooke, A. H., [New], MBE, MA DPhil  
 Collie, C. H., [Ch. Ch.], BSc MA  
 Griffiths, J. H. E., [Magd.], OBE, MA DPhil  
 Roaf, D., [Ch. Ch.], MA DPhil  
 Rollin, B. V., [Wadh.], MA DPhil  
 Davies, W. T., [Kebble], PhD *Camb.*, MA *Camb. & Oxon.*  
 Sanders, J. H., [Oriell], BSc *Lond.*, MA DPhil  
 Series, G. W., [S. Edm.], MA DPhil, FAPS  
 Berman, R., [Univ.], MA *Camb. & Oxon.*, DPhil  
 Bagguley, D. M. S., [Bras.], MA DPhil  
 Hatton, J., [Exeter], MA DPhil  
 Wilks, J., [Pemb.], MA DPhil  
 Woodgate, G. K., [S. Pet.], MA DPhil  
 Rosenberg, H. M., [Bras.], MA DPhil  
 Wolf, W. P., [New], MA DPhil  
 Baker, J. M., [Mert.], MA DPhil

#### Senior Research Officers

Grace, M. A., [Ch. Ch.], MA DPhil  
 Shaw, P. F. D., [Jesus], MA DPhil  
 Moffatt, J., [Qu.], MA DPhil  
 Shaw, D. F., [Kebble], MA DPhil  
 Meads, R. E., [Ch. Ch.], MA DPhil  
 Clegg, A. B., MA PhD *Camb.*  
 Tanner, N. W., [Bras.], MSc *Melb.*, PhD *Camb.*, MA  
 Hill, R. W., [Corp.], MA DPhil  
 Robinson, F. N. H., [Wadh.], MA DPhil  
 Mulvey, J. H., PhD *Brist.*  
 Derrick, M., PhD *Birm.*

#### Graduate Assistant

Croft, A. J., [Ch. Ch.], MA DPhil

#### Lecturers

\*Hurst, C., [Jesus], MA DPhil  
 \*Bleaney, Mrs. Betty I., [S. Hug.], MA

#### Physics, Theoretical

Lamb, W. E., [New], BS PhD *Calif.*, Hon.  
 DSc *Penn.*, MA, FAPS, FIP  
 (Phys.) Wykeham Prof.  
 ter Haar, D., [S. Edm.], DrSc *Ley.*,  
 MA *St. And. & Oxon.* Reader  
 Spiers, J. A., [Wadh.], MA DPhil Lectr.  
 Elliott, R. J., [S. Joh.], MA DPhil Lectr.  
 Blin-Stoyle, R. J., [Wadh.], MA DPhil  
 Sr. Res. Officer  
 \*O'Brien, Mary C. M., [L.M.H.], MA  
 DPhil Lectr.  
 \*Caine, C. A., [S. Pet.], MA DPhil Lectr.  
 \*Brink, D. M., [Ball.], MA DPhil Lectr.

#### Physiology

Brown, Sir G. Lindor, [Magd.], CBE,  
 MSc MB ChB *Manc.*, LLD *St. And.*,  
 DULiège, MA, FRCP, FRS  
 Waynflete Prof.  
 Coxon, R. V., [Exeter], MD *Lond.*, MA  
 DPhil, FRCS, MRCP  
 (Hum. Physiol.) Reader

#### Demonstrators

Leach, E. H., [Bras.], BSc MA  
 Glees, F. P., [S. Cat.], MD *Bonn*, MA DPhil  
 Gordon, G., [Bras.], BSc MA DM  
 Phillips, C. G., [Trin.], BSc MA DM, MRCP  
 Cunningham, D. J. C., [Univ.], MB ChB *Edin.*,  
 MA  
 Banister, Rachel J., [Som.], BSc *Edin.*, MA  
 Lloyd, B. B., [Magd.], MA  
 Torrance, R. W., [S. Joh.], BSc BM MA  
 Pirenne, M. H. L., [Ch. Ch.], DrSc *Liège*,  
 PhD *Camb.*, MA

#### Senior Research Officer

Kay, R. H., [Mert.], MA DPhil

#### Poetry, see English

#### Political Economy, Political Theory, see Soc. Studies

#### Politics, see also Soc. Studies

#### University Lecturers

Crowe, Sybil E., [S. Hil.], PhD *Camb.*,  
 MA *Camb. & Oxon.*, FRIIistS  
 Seton-Watson, C. I. W., [Oriell], MC, MA  
 \*Blake, R. N. W., [Ch. Ch.], MA  
 \*Tite, K., [Magd.], MA  
 \*Knapp, W. F., [S. Cat.], MA  
 \*Hunt, N. C., [Exeter], PhD *Camb.*, MA  
*Camb. & Oxon.*  
 \*Pelczynski, Z. A., [Mert.], MA *St. And. & Oxon.*, DPhil  
 \*Shock, M., [Univ.], MA  
 \*Leys, C. T., [Ball.], MA  
 \*Marshall, G., [Qu.], MA *Manc. & Oxon.*,  
 PhD *Glas.*  
 \*Proudfoot, Mrs. Mary, [Som.], MBE, BLitt MA  
 \*Williams, P. M., [Nuff.], MA  
 \*Hurst, M. C., [S. Joh.], MA  
 \*Pulzer, P. G. J., [Magd.], MA  
 \*Rose, S., [S. Ant.], MA DPhil  
 Perham, Margery F., [S. Hug. & Nuff.],  
 CBE, Hon. LLD *St. And.*, MA  
 Butler, D. E., [New], MA DPhil

#### Portuguese Studies

Piçarra Carvalho, J. da C., [Exeter], MA Lectr.

#### Psychology

Oldfield, R. C., [Magd.], MA *Camb. & Oxon.*,  
 FBPsS Prof., Dir. of Inst.  
 Babington Smith, B., [New], OBE,  
 MA *Camb. & Oxon.* (Exper. P) Sr. Lectr.  
 Sutherland, N. S., [Magd.], MA DPhil  
 (Exper. P.) Lectr.

..... (Gen. P.) Lectr.  
Argyle, J. M., [Exeter], MA *Camb. & Oxon.*,  
FBPsS (Soc. P.) Lectr.  
Vowles, D. M., [Kemble], DPhil  
(Physiological P.) Lectr.  
Treisman, M., [Bras.], MB BCh *Rand*, BA  
(Exper. P.) Jr. Lectr.

### Russian

Konovalov, S., [New], BLitt MA Prof.  
Unbegaun, B. O., [Bras.], Dèsl *Paris*, MA  
(Compar. Slav. Philol.) Prof.  
Foote, I. P., [S. Edm.], MA Lectr.  
Freeborn, R. H., [Bras.], MA DPhil Lectr.  
Hingle, R. F., [Corp.], PhD *Lond.*, MA Lectr.  
Fennell, J. L. I., [Ch. Ch.], PhD *Camb.*,  
MA *Camb. & Oxon.* Lectr.  
\*Pennington, Anne E., [L.M.H.], MA  
Simmons, J. S. G., [Qu.], MA  
Librarian-Lectr. in charge of Russian &  
Slavonic Books

### Sanskrit

Burrow, T., [Ball.], PhD *Camb.*, MA Boden Prof.

### Social and Administrative Studies

Barnes, L. J., [Univ.], MC, MA Dir.  
Collison, P. C., [S. Cat. & Nuff.], BCom  
PhD *Birm.*, MA Tutor  
Harrison, Enid M., [L.M.H. & Nuff.],  
BLitt MA Tutor  
Tajfel, H., [Pemb.], BA *Lond.*, MA Tutor  
Dixon, J., MA *Manc.*  
Jackson, Dorothy M. Supervisor

**Social Studies**, see also Stats., and, for lectrs.  
in these 2 subjs., Econ. & Pol.

Hicks, J. R., [All S.], DSc(Econ) *Lond.*, BLitt  
MA, FBA (Pol. Econ.) Drummond Prof.  
Jewkes, J., [Mert.], CBE, MCom *Manc.*, MA  
(Ec. Organization) Prof.  
Beloff, M., [All S.], BLitt MA, FRHistS  
(Govt. & Pub. Admin.) Gladstone Prof.  
Berlin, Sir Isaiah, [All S.], CBE, MA, FBA  
(Soc. & Polit. Theory) Chichele Prof.  
Headlam-Morley, Agnes, [S. Hug.], BLitt MA  
(Internat. Relns.) Montague Burton Prof.  
Kirkwood, K., [S. Ant.], MA  
(Race Relns.) Rhodes Prof.  
Frankel, S. H., [Oriol & Nuff.], PhD DSc  
(Econ) *Lond.*, MA *Rand & Oxon.*  
(Col. Econ. Affairs) Prof.  
Nicholas, H. G., [New], MA  
(Comp. Study of Instns.) Reader  
Harrod, Sir Roy, [Ch. Ch. & Nuff.], Hon.  
LLD *Aberd.*, MA, FBA  
(Internat. Econ.) Nuffield Reader  
Hartwell, R. M., [Ball. & Nuff.], MA *Syd.*  
& *Oxon.*, DPhil  
(Recent Soc. & Econ. Hist.) Reader  
Madden, A. F., [Nuff.], BLitt MA DPhil,  
FRHistS (Commonwealth Govt.) Reader  
..... (Criminol.) Reader  
Munby, D. L., [Nuff.], MA  
(Econ. & Orgn. of Transport) Reader

Balogh, T., [Ball.], DrRerPol *Bud.*, MA  
(Econ.) Reader  
Carnell, F. G., [Exeter], BLitt MA  
(Commonwealth Govt.) Sr. Lectr.  
Keith-Lucas, B., [Qu.], MA *Camb. & Oxon.*  
(Local Govt.) Sr. Lectr.  
Flanders, A. D., [Ball.], MA  
(Indust. Relns.) Sr. Lectr.  
Myint, H., [Linc.], BA *Rangoon*, PhD *Lond.*,  
MA  
(Econ. of Underdevel. Countries)  
Schenk, H. G. A. V., [Exeter], DrJur *Prague*,  
MA DPhil  
(European Econ. & Soc. Hist.) Sr. Lectr.  
..... (Sociol.) Lectr.  
Footman, D. J., [S. Ant.], CMG, MC, MA  
(Russian Studies) Lectr.  
Katkov, G., [S. Ant.], MA  
(Soviet Econ. & Instns.) Lectr.  
Stuvel, G., Dr *Netherlands* (Econ. Stats.) Lectr.  
Hicks, Mrs. Ursula K., [Som.], MA  
(Pub. Finance) †Lectr.  
Plamenatz, J. P., [All S. & Nuff.], MA  
(Soc. & Pol. Theory) †Lectr.

### Sociology, see also Soc. Studies

Lienhardt, R. G., [Exeter], MA DPhil  
(African S.) Sr. Lectr.  
Pocock, D. F., [Qu.], MA *Camb. & Oxon.*,  
BLitt DPhil, FRAI (Indian S.) Lectr.

### Spanish

Russell, P. E. L. R., [Exeter], MA  
(S. Studies) King Alfonso XIII Prof.  
Jones, C. A., [Magd.], MA DPhil Lectr.  
Pring-Mill, R. D. F., [Magd.], MA Lectr.  
Hodcroft, F. W., [Exeter], MA *Manc. &*  
*Oxon.* Lectr.  
Glendinning, O. N. V., [Ch. Ch.], MA *Camb.*  
& *Oxon.* Lectr.  
Chapman, W. G., [Qu.], MA *Aberd. & Oxon.*  
†Lectr.

### Statistics

..... Prof.  
Jackson, E. F., [S. Ant.], BEcon *Birm.*,  
MA Dir. of Inst.  
Knowles, K. G. J. C., [New], MA Sr. Res. Officer  
Lydall, H. F., [New], BA *S.A.*, MA  
Sr. Res. Officer  
Hammersley, J. M., [Trin.], MA DSc  
Sr. Res. Officer

### Surveying and Geodesy

Bomford, G., [Bras.], OBE, MA DSc,  
FGS, FNI Reader  
Robbins, A. R., [Hertf.], BSc MA DPhil  
Sr. Lectr.

### Swahili

Maguire, R. A. J., [Oriol], MA *Dub. &*  
*Oxon.* Lectr.

Corry, D. C., [Linc.], MD *Lond.*, MA, FRCS  
 Elliot Smith, A., MA *Camb.*, FRCS  
 Scott, J. C., [Oriol], MB MS *Tor.*, MA, FRCS

First Assistant

Gunning, A. J., [Ball.], MB ChB *Cape T.*, FRCS

### Tropical Medicine

MacArthur, Sir William P., KCB, OBE,  
 DSO, MD *Belf.*, MB BCh BAO *N.U.I.*,  
 DSc *Belf. & Oxon.*, DTM&H *Camb.*,  
 DPH, FRCP, FRCPI Lectr.

### BAMPTON LECTURER (alternate years)

1962—Rev. Canon A. Richardson, [Exeter], MA  
*Liv. & Oxon.*, DD *Glas. & Oxon.*

### GEORGE EASTMAN VISITING PROFESSOR

1960-61—no. appt.

1961-62—Prof. J. H. Van Vleck, AB *Wis.*, AM  
 PhD *Harv.*, Hon. ScD *Wesleyan, Wis. & Grenoble*

### SARUM LECTURER (alternate years)

1960-61—A. N. Sherwin-White, [S. Joh.], MA,  
 FBA

### INSTITUTE OF EDUCATION

Dir., A. D. C. Peterson, [Ball.], OBE, MA ;

Sec., M. M. Spencer, [Ball.], MA ; Conference Officer & Staff Tutor, S. Redman, [Qu.], MA ; Asst. Sec., J. Francis.

### EXTRA-MURAL STUDIES

Sec. to the Delegacy for Extra-Mural Studies, F. W. Jessup, [S. Joh.], BA LLB *Lond.*, MA, FSA ; Dep. Sec., F. V. Pickstock, [Qu.], MA ; Asst. Sec., R. W. Lyne, [Keble], MA *Camb. & Oxon.* ; Tutorial Sec., H. P. Smith, [Ball.], MA.

Full-time Tutors and Lectrs. : S. H. V. Argent, BA *Lond.* ; E. H. Beet, MA *Durh.* ; G. R. Brown, [Ball.], MA ; R. B. Cant, BSc(Econ) *Lond.* ; M. J. Carritt, [Qu.], MA ; A. S. Chadwick, [Magd.], PhD *Col.*, BA *Lond. & Oxon.* ; H. J. Collins, [Qu.], MA DPhil ; S. W. Coltham, [Univ.], MA DPhil ; A. T. D'Eye, [Ball.], MA ; D. J. Hewitt, MA *Camb.* ; J. H. Levitt, BA *Manc.* ; G. Lewis, BSc *Manc.* ; W. E. Lloyd, BA *Liv.* (Warden, Wedgwood Memorial Coll.) ; A. I. Marsh, [Hertf.], MA ; E. McCabe, MA *Glas.*, BA *Lond.* ; J. A. McLean, MA *Camb.* ; Catherine E. M. Reynolds, [S. Hug.], MA ; T. P. Roberts, [Ch. Ch.], MA ; J. B. Roope ; C. A. Scrimgeour, MA *Camb.* ; Evelyn M. Smith, BSc(Econ), MA *Durh.* ; D. G. Stuart, BA *Lond.* ; G. Taylor, BA *Wales* ; G. B. Thomas, BA *Wales* ; A. B. Walden, [Qu.], BA ; R. H. Williams, MA *Camb.* ; A. J. Woolford, MA *Camb.* ; J. G. G. Wootton, BSc(Econ) PhD *Lond.*

## UNIVERSITY ADMINISTRATIVE AND OTHER STAFF

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UNIVERSITY CHEST. Land Agent to the Univ. : N. D. G. James, [Bras.], MC, MA ; Chief Accountant & Dep. Sec. : J. A. Cochrane, [S. Edm.], MA, Hon. MA, FAIA ; Surveyor to the Univ. : J. Lankester, [Univ.], MA ; Dep. Chief Accountant : H. Barrett.

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# THE COLLEGES

## Men's Colleges

### ALL SOULS COLLEGE

Founded 1438 by King Henry VI and Henry Chichele, successively Bishop of St. David's and Archbishop of Canterbury. Undergraduate students are not admitted. Telephone : Oxford 49641.  
Warden—J. H. A. Sparrow, OBE, MA

#### Fellows

Brand, Rt. Hon. Lord, CMG, MA Hon. DCL  
Archibald, J. G., MA  
Somervell of Harrow, Rt. Hon. Lord, OBE, Hon.  
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Faber, Sir Geoffrey C., MA  
Jacob, E. F., Hon. LittD *Manc.*, MA DPhil,  
FBA, FSA, FRHistS, *Sr. Dean*  
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Rowse, A. L., Hon. DLitt *Exe.*, MA DLitt, FBA,  
FRHistS, FRSL  
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*Estates Bursar*  
Salter, Rt. Hon. Lord, GBE, KCB, Hon. LLD  
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DPhil, FRSL  
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Hanbury, H. G., QC, MA DCL  
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Seznec, J. J., DèS *L. Paris*, Hon. MA *Harv.*, MA  
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Dummett, M. A. E., MA  
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Hicks, J. R., DSc(Econ) *Lond.*, BLitt MA, FBA  
Zachner, R. C., MA  
Tyson, A. W., MA

Gibbs, N. H., MA DPhil  
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Bridges, Rt. Hon. Lord, GCB, GCVO, MC, Hon.  
LLD *Camb.*, *Lond.* & *Brist.*, Hon. DLitt  
*R'dg.*, MA Hon. DCL, FRS  
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*Edin.*, MA DCL, FBA  
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Richmond, I. A., CBE, Hon. LLD *Edin.*, Hon.  
LittD *Leeds & Manc.*, Hon. DLit *Belf.*, MA,  
FBA, FSA  
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Makins, Sir Roger M., GCB, GCMG, KCB, MA  
Hon. DCL  
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Stern, S. M., MA DPhil  
Lever, J. F., MA  
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Ford, E. B., MA DSc  
Millar, F. G. B., BA  
Clayre, A. G. E. N. S., BA  
Cante, J. D., BA  
Abraham, W. E.  
Fawcett, J. E. S., MA, *Domestic Bursar*

#### Readers and Lecturers

Payne, D. J., LL.B. *Lond.*, MA, *All Souls Reader*  
*in Engl. Law*  
Nicholas, J. K. B. M., MA, *All Souls Reader*  
*(Roman Law)*  
Grünhut, M., MA, *Reader (Criminol.)*  
Crombie, A. C., BSc *Melb.*, PhD *Camb.*, MA,  
*Lectr. in Hist. of Sci.*

### BALLIOL COLLEGE

Founded by John Balliol (father of John Balliol, King of Scotland) between 1263 and 1268.  
Students in residence (1959-60), 428. Telephone : Oxford 49601.

Master—Sir David L. Keir, Hon. LLD *Glas.*, *Dub.*, *New Br.*, *Qu.* & *Belf.*, MA Hon. DCL

#### Fellows

Rodger, A. B., MA, *A. L. Smith Memorial*  
*Fellow, Tutor in Mod. Hist.*  
Tylor, T. H., BCL MA, *War Memorial Fellow,*  
*Tutor in Jurisp., Estates Bursar*  
Bell, R. P., MA, FRS, *Jowett Fellow, Tutor in*  
*Nat. Sci.*  
Southern, R. W., MA, FRHistS, FBA, *Jowett*  
*Fellow, Tutor in Mod. Hist.*

Hill, J. E. C., MA, FRHistS, *Jowett Fellow, Tutor*  
*in Mod. Hist.*  
Meiggs, R., MA, *Duncan Campbell Macgregor*  
*Fellow, Tutor in Anc. Hist., Præfectus of*  
*Holywell Manor*  
Bryson, J. N., MA, *Vincent Massey Fellow, Tutor*  
*in Engl. Lang. & Lit., Librarian*  
Burrow, T., PhD *Camb.*, MA, *Boden Prof. of*  
*Sanskrit*

- Waters, W. A., PhD ScD Camb., MA Camb. & Oxon., FRS, FRIC, *War Memorial Fellow, Bedford Lectr., Tutor in Nat. Sci.*
- Willis-Bund, Rev. F. L. M., MA, *Chaplain, Dean*
- Corbett, J. P., MA, *Tutor in Philos., Jowett Lectr. in Philos.*
- Hunt, R. W., MA DPhil, *Sr. Res. Fellow*
- Balogh, T., DrRerPol Bud., MA, *Tutor in Econ.*
- de Wet, J. S., BSc Cape T., PhD Prin., MA Camb. & Oxon., *Tutor in Maths.*
- Williams, E. T., CB, CBE, DSO, MA, *Professorial Fellow*
- Keen, H. H., MA, FCA, *Professorial Fellow*
- Dick, M. W., MA, *Craig-Sellar Fellow, Tutor in Philos. & Pol.*
- Hare, R. M., MA, *Tutor in Philos.*
- Harlow, V. T., CMG, MA DLitt, FRHistS, *Beit Prof. of Hist. of British Commonwealth*
- Streeten, P. P., MA Aberd. & Oxon., *Tutor in Econ.*
- Kuhn, H. G., DPhil Gött., MA, FRS, *Tutor in Phys.*
- Williams, G. W., MA Dub. & Oxon., *Tutor in Classics, Jowett Lectr. in Classical Langs. & Lits., Sr. Tutor*
- Campbell, A., BA Birm., BLitt MA, FRHistS, *Sr. Res. Fellow*
- Leys, C. T., MA, *Tutor in Pol.*
- Prest, J. M., MA, *Fawkes Memorial Fellow, Tutor in Mod. Hist.*
- Allison, P. R., BSc ChM Leeds, MA DM, FRCS, *Nuffield Prof. of Surg.*
- Harris, D. R., BA LLN N.Z., BCL MA, *Tutor in Jurisp., Dean of Degrees*
- Ogilvie, R. M., MA, *Tutor in Classics*
- Brink, D. M., MA DPhil, *Tutor in Theoret. Phys*
- Gwynne, M. D., MA DPhil, *Jr. Res. Fellow*
- Paton, W. D. M., MA DM, JP, FRS, *Prof. of Pharmacol.*
- Phizackerley, P. J. R., BSc BM MA, *Tutor in Biol. Sci.*
- Lonsdale, R. H., BA, *Andrew Bradley Jr. Res. Fellow*
- Woods, L. C., MA DPhil DSc, *Tutor in Engin. Sci.*

#### Other Tutors and Lecturers

- Perman, R. C. D., MA, *Lectr. in Mod. Langs.*
- Andrews, H. K., MusD Dub., MA DMus, *Tutor in Music*
- Brunet, P. C. J., MA DPhil, *Tutor in Zool.*
- MacGregor, J. J., BSc Glas., MS Wis., BLitt MA, *Tutor in For.*
- McKerrow, W. S., MA DPhil, *Tutor in Geol.*
- Masefield, G. B., MA, *Tutor in Agric.*
- Rushworth, G., BM MA, *Tutor in Physiol.*
- Webb, M. J., MA, *Tutor in Geog.*
- White, F., BA Camb., MA, *Tutor in Bot.*
- Argyle, J. M., MA, *Tutor in Psychol.*
- Morris, J. G., DPhil, *Tutor in Biochem.*
- Prout, C. K., BA, *Tutor in Org. Chem.*

#### BRASENOSE COLLEGE

Founded in 1509 by William Smyth, Bishop of Lincoln, and Sir Richard Sutton, Kt.  
Students in residence (1959-60), 364. Telephone: Oxford 48641.

Principal—.....

#### Fellows

- McKie, J. I., MA, *Vice-Principal, Tutor, Lectr. in Philos.*
- Cohn, E. S., MA, *Tutor, Lectr. in Mod. Hist.*
- Colliue, E. G., BLitt MA, *Sr. Tutor, Lectr. in Mod. Hist.*
- Thom, A., PhD DSc Hon. LLD Glas., MA, *Prof. of Engin. Sci.*
- Shackleton, R., MA, *Tutor, Lectr. in Mod. Langs., Sr. Dean, Librarian*
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- Nicholas, J. K. B. M., MA, *Tutor, Lectr. in Law*
- Maudsley, R. H., LLB Birm., BCL MA, *Tutor, Lectr. in Law*
- Styler, Rev. L. M., MA, *Chaplain, Tutor for Admissions*
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- Barltrop, J. A., BSc MA DPhil, *Tutor, Lectr. in Chem.*
- Lawson, F. H., DrJur Louvain & Fran., Hon. LLD Glas., DCL, FBA, *Prof. of Compar. Law*
- Syme, Sir Ronald, Hon. DLitt Durh. & N.Z., MA, FBA, *Camden Prof. of Anc. Hist.*
- Leyland, N. H., MA, *Tutor, Lectr. in Econ., Bursar*
- Bagguley, D. M. S., MA DPhil, *Tutor, Lectr. in Phys.*
- James, N. D. G., MC, MA, *Professorial Fellow, Agent*
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- Jack, I. R. J., MA Edin. & Oxon., DPhil, *Sr. Res. Fellow, Tutor, Hulme Lectr. in Engl. Lit.*
- Stockton, D. L., MA, *Tutor, Lectr. in Anc. Hist.*
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- Edmonds, D. T., BSc Aberd., MD DPhil, *Platnauer Jr. Res. Fellow in Phys.*
- Lewis, J. T., PhD Belf., MA, *Tutor, Lectr. in Maths.*

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- Spalding, K. J., MA
- Grant, A. D., MA

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- Wilson, S. S., MA (Engin.)
- Houston, J. M., MA Edin. & Oxon., BSc DPhil (Geog.)
- Pasley, J. M. S., MA, *Hulme Lectr. in German*
- Miller, B. D. H., BLitt MA (Engl. Philol.)

Freeborn, R. H., MA DPhil, *Hulme Lectr. in Russian*  
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Garton, G., MA DPhil (*Chem.*)

Glendinning, O. N. V., MA *Camb. & Oxon.* (*Spanish*)  
Baker, Rev. J. A., BLitt MA (*Theol.*)  
Davies, J. W., LLB *Birm.*, BCL, *Stallybrass Lectr. in Law*

CHRIST CHURCH

Projected by Cardinal Wolsey, and established by King Henry VIII in 1546.  
Students in residence (1959-60), 494. Telephone: Oxford 42201.

Dean—Very Rev. C. A. Simpson, MA Hon. DD K.C.N.S., STM ThD *General Theol. Sem. (N.Y.)*, Hon. DCL *Bishop's*, MA DD

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Greenslade, Rev. S. L., Hon. DD *Edin.*, MA DD, FBA, *Regius Prof. of Eccles. Hist.*  
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Harrod, Sir Roy, Hon. LLD *Aberd.*, MA, FBA, *Tutor*  
Myres, J. N. L., Hon. LLD *Tor.*, MA, FSA, FRHistS  
Collie, C. H., BSc MA, *Tutor*, *Dr. Lee's Reader in Phys.*  
Roaf, D., MA DPhil, *Duke of Westminster Res. Student*  
Gray, E. W., MBE, BA *Adel.*, MA, *Tutor*, *Librarian & Sec.*  
Sutherland, C. H. V., MA DLitt, *Lectr.*  
Mascall, Rev. E. L., BSc *Lond.*, MA BD *Camb.*, DD, *Tutor*  
Watson, J. S., MA, FRHistS, *Tutor & Sr. Censor*  
Hill, Lt.-Col. D. V., MA, *Steward*  
Blake, R. N. W., MA, *Tutor*  
Stuart, C. H., MA, *Tutor*  
Bueno de Mesquita, D. M., PhD *Camb.*, MA *Camb. & Oxon.*, FRHistS, *Tutor*  
Stewart, J. I. M., MA, *Tutor*  
Obolensky, Prince D., PhD *Camb.*, MA, *Lectr.*  
Gray, F. A., MA, *Treasurer*  
Mason, J. F. A., MA DPhil, *Tutor*  
Gould, J. P. A., MA *Camb. & Oxon.*, *Tutor*  
Davies, H., MA DPhil, *Tutor*  
Pickering, Sir George W., Hon. DSc *Durh.*, Hon. MD *Ghent*, MA MD *Camb.*, DM, FRCP, FRS, *Regius Prof. of Med.*

Burn, E. H., BCL MA, *Tutor & Jr. Censor*  
Watson, S., MA DMus, FRCM, FRCO, *Tutor*, *Organist*  
Kent, P. W., BSc PhD *Birm.*, MA DPhil, FRIC, *Tutor*, *Dr. Lee's Reader in Chem.*  
Wood, O. P., MA, *Tutor*  
Lewis, D. M., PhD *Prin.*, MA, *Tutor*  
Buckingham, A. D., MSc *Syd.*, PhD *Camb.*, MA *Camb. & Oxon.*, *Tutor*  
Wilkinson, D. H., PhD *Camb.*, MA *Camb. & Oxon.*, FRS, *Prof. of Exper. Phys.*  
Krailsheimer, A. J., MA, *Tutor*  
Scott, M. F., BLitt MA, *Tutor*  
McLaggan, M. A., MA, *Tutor*  
Matthews, P. B. C., MB BChir *Camb.*, MA DM, *Tutor*, *Dr. Lee's Reader in Anat.*  
Grace, M. A., MA DPhil, *Tutor*  
Pears, D. F., MA, *Res. Student*  
Luke, F. D., MA DPhil, *Tutor*  
Lloyd-Jones, P. H. J., MA *Camb. & Oxon.*, *Regius Prof. of Greek*  
McHardy, Rev. W. D., MA *Aberd.*, *Edin. & Oxon.*, BD Hon. DD *Aberd.*, DPhil, *Regius Prof. of Hebrew*

Lecturers

Baldick, R. A. E., MA DPhil, FRSL  
Barton, G., MA DPhil  
Bill, E. G. W., MA, *Archivist*  
Burrow, J. A., MA  
Bushell, P. J., BSc *Aberd.*, BA  
Glendinning, O. N. V., MA *Camb. & Oxon.*  
Griffin, J. P.  
Gurdon, J. B.  
Harris, J. R., MA DPhil  
Knowles, J. R., BA  
Lund, P. G., MA  
Pulzer, P. G. J., BSc *Lond.*, MA *Camb. & Oxon.*  
Reading, B., BA  
Stringfellow, M. W., MA DPhil  
Winterbottom, M., MA  
Woods, M. J., BPhil MA  
Zeldin, T., MA DPhil

CORPUS CHRISTI COLLEGE

Founded in 1517 by Richard Fox, Bishop of Winchester. Students in residence (1959-60), 189.  
Telephone: Oxford 49431.

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Fellows  
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Lepper, F. A., MA, *Tutor in Anc. Hist.*, *Sr. Tutor*

Brock, M. G., MA, *Tutor in Mod. Hist.*, *Dean*  
Mauldon, J. G., MC, MA, *Tutor in Maths.*  
Aston, T. H., MA, *Tutor in Mod. Hist.*, *Librarian*



Nisbet, R. G. M., MA *Glas. & Oxon.*, *Tutor in Classics, Vice-President, Asst. Dean*  
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 Thomson, J. F., DFC, BA *Lond.*, MA *Camb. & Oxon.*, *Tutor in Philos.*  
 Jameson, Brig. G. O. M., CBE, MA, *Bursar*  
 Owen, G. E. L., BPhil MA  
 Paterson, C. H., MA  
 Hill, R. W., MA DPhil, *Tutor in Phys.*  
 Urmson, J. O., MC, MA, *Tutor in Philos.*  
 Baker, Rev. J. A., BLitt MA, *Chaplain, Lectr. in Div.*

Gasser, R. P. H., MA, *Tutor in Chem.*  
 Kneale, W. C., MA, FBA, *White's Prof. of Moral Philos.*  
 Jamison, D. G., BM MA, *Sr. Res. Fellow*

#### Other Lecturers

Taylor, T. H., BCL MA (*Jurisp.*)  
 Bateson, F. N. W., BLitt MA (*Engl. Lit.*)  
 Parker, R. A. C., MA DPhil (*Mod. Hist.*)  
 Seton, F., MA DPhil (*Econ.*)  
 Perman, R. C. D., MA (*Mod. Langs.*)

### EXETER COLLEGE

Founded in 1314 by Walter de Stapeldon, Bishop of Exeter.  
 Students in residence (1959-60), 301. Telephone: Oxford 44681.

Rector—K. C. Wheare, CMG, Hon. LHD Col., MA *Melb. & Oxon.*, DLitt, FBA

#### Fellows

Baldon, J. P. V. D., MA, *Sr. Tutor, Keeper of Archives, Lectr. in Anc. Hist.*  
 Hinshelwood, Sir Cyril N., OM, Hon. ScD *Dub. & Camb.*, Hon. DSc *Lond.*, *Leeds, Sheff., Brist. & Hull*, Hon. LLD *Wales*, MA DSc Hon. DCL, FRIC, PRS, *Dr. Lee's Prof. of Chem.*  
 Barr, W. G., MA, *Tutor, Lectr. in Mod. Hist.*  
 Kemp, Rev. Canon E. W., BD MA, FRHistS, *Chaplain, Librarian, Tutor, Lectr. in Theol. & Mediæv. Hist.*  
 Trypanis, C. A., DPhil *Athens*, MA, *Bywater & Sotheby Prof. of Byzantine & Mod. Greek Lang. & Lit.*  
 Barrow, R. F., BSc *Lond.*, MA DPhil, *Tutor, Lectr. in Chem.*  
 Hall, G. D. G., MA, *Sub-Rector, Tutor, Lectr. in Law*  
 Mervyn Jones, D., MA *Camb. & Oxon.*, *Dean, Lectr. in Classics*  
 Hunt, N. C., PhD *Camb.*, MA *Camb. & Oxon.*, *Domestic Bursar, Tutor & Lectr. in Pol.*  
 Russell, P. E. L. R., MA, *King Alfonso XIII Prof. of Spanish Studies*

Dee, B. D., MA, *Estates Bursar*  
 Raitt, A. W., MA DPhil, *Tutor, Lectr. in French Lit.*  
 Coxon, R. V., MD *Lond.*, MA DPhil, FRCS, MRCP, *Professorial Fellow, Lectr. in Physiol*  
 Hatton, J., MA DPhil, *Lectr. in Phys.*  
 Wordsworth, J. F., MA, *Lectr. in Engl.*  
 Kirwan, C. A., MA, *Lectr. in Philos.*  
 Whitehouse, M. W., BSc MA DPhil, *Staunes Med. Res. Fellow*

#### Other Tutors and Lecturers

Brockington, Rev. L. H., BD *Lond.*, MA (*Hebrew*)  
 Beckinsale, R. P., MA *Lond. & Oxon.*, DPhil, FRMetS (*Geog.*)  
 Crawford, G. N. C., MB BS *Lond.*, MA (*Anat.*)  
 Alton, R. E., MC, MA (*Engl. Lang.*)  
 Barltrop, J. A., BSc MA DPhil (*Org. Chem.*)  
 Glazebrook, P. R., BA (*Law*), *Jr. Dean*  
 Dyer, D. G., MA (*German*)  
 Eltis, W. A., MA (*Econ.*)  
 Bevan, E. A., MA (*Bot.*)  
 Watson, S., MA DMus (*Music*)  
 Harris, R., MA DPhil (*French Philol.*)

### HERTFORD COLLEGE

First founded in 1740 in succession to Hertford Hall (founded about 1282), and refounded in 1874. Students in residence (1959-60), 171. Telephone: Oxford 41434.

Principal—W. L. Ferrar, MA DSc

#### Fellows

Markham, F. M. H., MA, *Lectr. in Mod. Hist., Dean*  
 Armstrong, C. A. J., MA, FRHistS, *Lectr. in Mod. Hist., Dean of Degrees, Librarian*  
 Clark, Sir Wilfrid E. Le G., DSc *Lond.*, Hon. DSc *Durh.*, Hon. MD *Melb.*, Hon. LLD *Malaya*, MA, FRAI, FRCS, FRS, *Dr. Lee's Prof. of Anat.*

Ross, C. R., MA, *Lectr. in Mod. Studies, Drapers' Company Fellow, Bursar*  
 Gilbert, E. W., BLitt MA, *Prof. of Geog.*  
 Hinde, Rev. R. S. E., BLitt MA, *Chaplain, Sr. Tutor, Sec. for Admissions*  
 Vaughan-Williams, E. M., BSc MA DM  
 Bentley, D. J., BCL MA, *Lectr. in Jurisp.*  
 Malpas, R. M. P., BPhil MA, *Lectr. in Philos.*  
 Tanner, N. W., MA

Other Lecturers

Houston, J. M., MA *Edin. & Oxon.*, BSc DPhil  
(*Geog.*)  
Brewer, F. M., MBE, PhD *Corn.*, BSc MA,  
FRIC (*Nat. Sci.*)

Fowler, G. T., BA (*Anc. Hist.*)  
Hubbard, Margaret E. (*Classics*)  
Burden, D. H., MA (*Engl.*)  
Ganz, P. F., MA PhD *Lond.* (*Mod. Langs.*)

JESUS COLLEGE

Founded in 1571 by Queen Elizabeth. Students in residence (1959-60), 268.  
Telephone: Oxford 41818.

Principal—J. T. Christie, MA

Fellows

Hurst, C., MA DPhil, *Tutor in Phys.*  
Griffith, J. G., MA, *Sr. Tutor, Tutor in Classics*  
Baker, J. N. L., BLitt MA, *Bursar, Tutor in Geog.*  
Woodward, L. A., PhD *Leip.*, BSc MA, *Vice-Principal, Tutor in Chem.*  
Thompson, E. C., MA, *Tutor in Maths.*  
Foster, I. L., MA *Wales & Oxon.*, FSA, *Jesus Prof. of Celtic*  
Whiteley, Rev. D. E. H., MA, *Chaplain, Dean, Tutor in Theol.*  
Young, G. T., BSc *Birm.*, PhD *Brist.*, MA, FRIC, *Tutor in Chem.*  
Howarth, W. D., MA, *Tutor for Admissions, Tutor in Mod. Langs.*  
Varley, G. C., PhD *Camb.*, MA *Camb. & Oxon.*, *Hope Prof. of Zool. (Entomol.)*  
Hale, J. R., MA, *Librarian, Tutor in Mod. Hist.*

Dobson, E. J., BA *Syd.*, MA DPhil, *Reader in Engl. Lang.*  
Rees, D. A., MA DPhil, *Librarian, Tutor in Philos.*  
Rogerson, A., MA, *Tutor in Law*  
Paget, E., MA, *Tutor in Geog.*  
Walsh, J. D., PhD *Camb.*, MA *Camb. & Oxon.*, *Jr. Dean, Tutor in Mod. Hist.*  
Foster, C. D., MA, *Sr. Res. Fellow in Econ. & Org. of Transport*  
Houghton, J. T., MA DPhil, FRMetS, *Jr. Dean, Tutor in Phys.*  
Evans, R. C., Hon. DSc *Wales*, BM MA  
Lecturers  
Barlow, D., BLitt MA (*German*)  
Alton, R. E., MC, MA (*Engl.*)  
Baragwanath, L. E., BA *Melb.*, BPhil MA (*Econ.*)  
Williams, P. M., MA (*Pol.*)  
Rushworth, G., BM MA (*Physiol.*)

KEBLE COLLEGE

Founded in 1868 as a memorial to the late Rev. John Keble, sometime prof. of poetry in the univ., and incorporated in 1870. Students in residence (1959-60), 380. Telephone: Oxford 59201.

Warden—Rev. A. M. Farrer, MA DD

Fellows

Parkes, G. D., BSc MA DPhil, FRIC, *Sub-Warden, Tutor in Nat. Sci., Sr. Tutor*  
Davidge, C. V., BCL MA, *Tutor in Jurisp., Bursar*  
Hawkes, C. F. C., MA, FRAI, FBA, FSA, *Prof. of European Archaeol.*  
Mitchell, B. G., MA, *Tutor in Philos.*  
Stead, Rev. G. C., MA *Camb. & Oxon.*, *Tutor in Theol., Chaplain*  
Price, F. D., BLitt MA, FSA, FRHistS, *Tutor in Mod. Hist., Dean*  
Barrett, W. S., MA, *Tutor in Classics, Librarian*  
Potts, D. C., MA, *Tutor in Mod. Langs.*  
Stone, E., MA DPhil, *Tutor in Mediaev. Hist.*

Smith, C. G., MA, *Tutor in Geog.*  
Shaw, D. F., MA DPhil, *Tutor in Phys.*  
Campbell, A. E., MA, *Tutor in Mod. Hist.*  
Carey, J., BA, *Tutor in Engl. Lang. & Lit.*

Research Fellow

von Engel, A. H., MA DSc

Lecturers

Cuff, P. J., MA DPhil (*Anc. Hist.*)  
Franklin, R. E., MA (*Engin.*)  
Phillips, F. G., MA DPhil (*Maths.*)  
Kitzinger, U., BLitt MA (*Pol.*)  
Eltis, W. A., MA (*Econ.*)  
Green, R. F., MA (*German*)  
Harris, R., MA DPhil (*French Philol.*)

LINCOLN COLLEGE

Founded in 1427 by Richard Fleming, Bishop of Lincoln. Students in residence (1959-60), 339.  
Telephone: Oxford 42580.

Rector—W. F. Oakeshott, Hon. LLD *St. And.*, MA, FSA

Fellows

Cox, H. H., MA, *Sub-Rector, Tutor in Philos.*  
Forey, Sir Howard W., MA PhD *Camb.*, LLD *Edin.*, MD *Adel.*, Hon. DSc *Sheff.*, *Birm.*, *Tor. & A.N.U.*, Hon. DM *Louvain*, BSc MA, FRS, FRCP, *Professorial Fellow*

Wellesz, E. J., CBE, MA Hon. DMus, FBA, *Supernumerary Fellow, Tutor in Music*  
Richards, R. E., MA DPhil, FRS, *Tutor in Nat. Sci.*  
Henderson, P. D., MA, *Dean & Tutor in Econ.*

Robson, W. W., MA, Jr. *Librarian, Tutor in Engl. Lang. & Lit.*  
 Green, Rev. V. H. H., MA DD Camb. & Oxon., FRHistS, *Chaplain, Sr. Librarian & Archivist, Sr. Tutor, Tutor in Mod. Hist.*  
 Laws, G. C., MA, *Bursar*  
 Simpson, A. W. B., MA, *Tutor in Jurisp.*  
 Sullivan, J. P., MA Camb. & Oxon., *Tutor in Classics*  
 Owen, J. B., BSc N.Z., MA N.Z. & Oxon., DPhil, *Tutor in Mod. Hist.*  
 Owen, J., MA DPhil, *Tutor in Phys.*  
 Ashmole, B., CBE, MC, BLitt MA, FBA, *Professorial Fellow*  
 Whitton, D. F., BLitt MA, *Dean of Degrees, Tutor in Mod. Langs.*  
 Abraham, E. P., MA DPhil, FRS, *Professorial Fellow*  
 Nuffield (Penicillin) Research Fellows  
 Heatley, N. G., PhD Camb., MA Camb. & Oxon.

Sanders, A. G., MB BS Lond., MA DPhil

#### Other Lecturers

Goff, R. L. A., MA (*Jurisp.*)  
 Oppenheimer, Sir Michael B. G., Bt., BLitt MA (*Pol.*)  
 Gray, D., MA N.Z. & Oxon. (*Engl.*)  
 Thomson, J. F., DFC, BA Lond., MA Camb. & Oxon. (*Philos.*)  
 Leach, E. H., BSc MA (*Physiol.*)  
 Plamenatz, J. P., MA (*Pol.*)  
 Martin, A. F., MA (*Geog.*)  
 Burden, D. H., MA (*Engl.*)  
 McKay, G. W., MA (*German*)  
 Baker, Rev. J. A., BLitt MA (*Theol.*)  
 Beckett, P. H. T., MA DPhil (*Agric.*)  
 Fowler, G. T., BA (*Anc. Hist.*)  
 Lewis, K. R., MA (*Bot.*)  
 Ford, E. B., MA DSc (*Biol.*)

#### MAGDALEN COLLEGE

Founded in 1458 by William of Waynflete, successively Headmaster of Winchester and Eton Colleges, Provost of Eton, and Bishop of Winchester, and sometime Lord High Chancellor of England  
 Students in residence (1959-60), 429. Telephone: Oxford 41781.

President—T. S. R. Boase, MC, Hon. LLD *St.And. & Melb.*,  
 Hon. DLitt *Durh. & R'dg.*, MA Hon. DCL

#### Fellows

Driver, G. R., CBE, MC, Hon. DD *Aberd. & Manc.*, Hon. DLitt *Durh.*, MA, FBA, *Founder's Chaplain*  
 Onions, C. T., CBE, Hon. LittD *Leeds*, Hon. LLD *Birm.*, MA *Lond. & Oxon.*, Hon. DLitt, FBA, Hon. FRSL  
 McFarlane, K. B., MA, FSA, FRHistS, *Tutor in Mod. Hist.*  
 Sutton, L. E., MA DPhil, FRS, *Lectr. in Chem.*  
 Stevens, C. E., BLitt MA, *Tutor in Anc. Hist.*  
 Griffiths, J. H. E., OBE, MA DPhil, *Lectr. in Phys., Sr. Dean of Arts*  
 Hardie, C. G., MA, *Tutor in Classics*  
 Morris, J. H. C., MA DCL, *Lectr. in Law*  
 Witts, L. J., CBE, MD *Manc.*, Hon. ScD *Dub.*, MA DM, FRCP, *Nuffield Prof. of Clin. Med.*  
 Sinclair, H. M., BSc MA DM, MRCP, *Lectr. in Physiol. & Biochem.*  
 Taylor, A. J. P., MA, FBA, *Tutor in Mod. Hist.*  
 Cooke, C. A., LLD *Manc.*, MA, *Sr. Bursar*  
 Ryle, G., MA, *Waynflete Prof. of Metaphys. Philos.*  
 Gill, A., CBE, MA *Manc. & Oxon.*, *Tutor in Mod. Langs., Vice-President*  
 Ker, N. R., BLitt MA, FBA, *Librarian*  
 Worswick, G. D. N., MA, *Tutor in Econ.*  
 Kendall, D. G., MA, *Lectr. in Maths.*  
 Bennett, J. A. W., MA N.Z. & Oxon., DPhil, *Tutor in Engl. Lang. & Lit.*  
 Lloyd, B. B., MA, *Lectr. in Physiol.*  
 Adams, Rev. A. W., MA *Sheff. & Oxon.*, BD, *Dean of Divinity & Chaplain*  
 Cross, A. R. N., MA DCL, *Lectr. in Law*  
 Stoye, J. W., MA DPhil, *Tutor in Mod. Hist.*

Leyser, K. J., MA, *Tutor in Mod. Hist.*  
 Tite, K., MA, *Tutor in Pol.*  
 Warnock, G. J., MA, *Tutor in Philos., Sr. Tutor*  
 Darlington, C. D., PhD *Lond.*, DSc *Lond. & Oxon.*, MA, FRS, *Sherardian Prof. of Bot.*  
 Treitel, G. H., BCL MA, *Tutor in Law, Clerk to the Coll.*  
 Jones, E. R. H., DSc *Manc.*, PhD *Wales*, MA FRS, FRIC, *Waynflete Prof. of Chem.*  
 Jones, E. L., MA, *Tutor in Engl. Lang. & Lit., Jr. Dean of Arts*  
 Judd, B. R., MA DPhil  
 Oldfield, R. C., MA Camb. & Oxon., FBPsS, *Prof of Psychol.*  
 Rose, B. W. G., MusB *Camb.*, MA *Camb. & Oxon.*, DMus, FRCO, *Organist*  
 Grayson, C., MA, *Serena Prof. of Italian Studies*  
 Gardiner, P. L., MA, *Tutor in Philos.*  
 Pasley, J. M. S., MA, *Lectr. in German*  
 Kacser, C., MA DPhil  
 ter Haar, D., DrSc *Ley.*, MA *St.And. & Oxon.*, *Lectr. in Phys.*  
 Hamilton, R. W., MA  
 Stamper, J. G., MA DPhil  
 Muntz, W. R. A., BA  
 Brown, Sir G. Lindor, CBE, MSc MB Chl *Manc.*, LLD *St.And.*, DULiège, MA, FRCP FRS, *Waynflete Prof. of Physiol.*  
 Higman, G., MA DPhil, FRS, *Waynflete Prof. of Pure Maths.*  
 Venanzi, L. M., DiplChem *Kiel*, DrChen *Trieste*, MA DPhil (*Chem.*)  
 Littler, J. S., BA BSc  
 France, P., BA  
 McMahon, C. W., MA, *Tutor in Econ.*

Lecturers

Pulzer, P. G. J., MA (Pol.)  
Sutherland, N. S., MA DPhil (Psychol.)  
Smart, Mrs. Elizabeth A., BCL MA (Law)  
Acheson, R. M., BSc MA DPhil (Org. Chem.)

Clowes, F. A. L., MA DPhil (Bot.)  
Bialokoz, J. E., MSc Birm., PhD Lond., MA (Engin.)  
Crawford, G. N. C., MA (Anat.)  
Woods, M. J., BPhil MA (Philos.)

MERTON COLLEGE

Founded in 1264 by Walter de Merton, sometime Chancellor of England, and afterwards Bishop of Rochester. Students in residence (1959-60), 254. Telephone: Oxford 49651.

Warden—G. R. G. Mure, MC, Hon. LLD St. And., MA

Fellows

Levens, R. G. C., MA, Tutor in Class., Sec. to the Harmsworth Trust, Dean  
Williams, Rev. C. S. C., MA, Chaplain, Tutor in Theol., Lectr. in Div. & Sr. Tutor  
Harrison, A. R. W., CBE, MA, Tutor in Anc. Hist.  
Cooke, A. M., MA DM, FRCP  
Dyson, H. V. D., BLitt MA, Tutor in Engl. Lit.  
Hardy, Sir Alister C., MA DSc, FRS, Linacre Prof. of Zool. & Comp. Anat.  
Phillips, C. S. G., MA, Tutor in Chem.  
Jewkes, J., CBE, MCom Manc., MA, Prof. of Econ. Organization  
Highfield, J. R. L., MA DPhil, Tutor in Mod. Hist., Archivist, Librarian & Sub-Warden  
Watson, P. D., MA DPhil, Tutor in Maths., Investments Bursar  
Parsons, D. S., MA DM, Tutor in Physiol.  
Roberts, J. M., MA DPhil, Tutor in Mod. Hist.  
Tinbergen, N., DPhil Ley., MA  
Davis, R. H. C., MA, FSA, FRHistS, Tutor in Mod. Hist., Admissions Tutor  
Barton, J. L., BCL MA, Tutor in Law  
Norman, R. O. C., BSc MA DPhil, Tutor in Chem., Principal of Postmasters

Baker, J. M., MA DPhil, Tutor in Phys.  
Black, J., MA, Tutor in Econ.  
Lucas, J. R., MA, Tutor in Philos.  
Coghill, N. H. K. A., MA, FRSL, Merton Prof. of Engl. Lit.  
Dronke, E. P. M., BA, Jr. Res. Fellow  
Dick, D. A. T., MB ChB Glas., MA DPhil, Jr. Res. Fellow  
Polanyi, M., Hon. DSc Prin. & Leeds, MD PhD Manc., MA, FRS, Sr. Res. Fellow  
Davis, N., MBE, MA N.Z. & Oxon., Merton Prof. of Engl. Lang. & Lit.  
Green, M., BA, Jr. Res. Fellow  
Thomas, W. E. S., BA, Jr. Res. Fellow

Other Lecturers

Pelczynski, Z. A., MA St. And. & Oxon., DPhil (Pol.)  
Paget, E., MA (Geog.)  
Potts, D. C., MA (French)  
Witt, D. C., MA (Engin.)  
Sutherland, N. S., MA (Psychol.)  
Ball, C. J. E., BA (Engl. Lang.)

NEW COLLEGE

Founded in 1379 by William of Wykeham, Bishop of Winchester and sometime Lord High Chancellor of England. Students in residence (1959-60), 412. Telephone: Oxford 48451.

Warden—Sir William G. Hayter, KCMG, MA

Fellows

Henderson, H. L., OBE, MA, Emeritus Fellow  
Legg, L. G. W., MA, Emeritus Fellow  
Creed, R. S., TD, DM  
Cox, Sir Christopher W. M., KCMG, MA  
Yorke, E. C., MA Camb. & Oxon., Tutor  
Titchmarsh, E. C., Hon. DSc Sheff., MA, FRS, Savilian Prof. of Geom.  
Plaskett, H. H., BA Tor., MA, FRS  
Price, H. H., Hon. LLD St. And., Hon. DLitt Dub., BSc MA, FBA  
Cecil, Lord David, CH, Hon. LittD Leeds, Hon. DLit Lond., Hon. LLD St. And. & Liv., MA, FRSL, Goldsmiths' Prof. of Engl. Lit.  
Staveley, L. A. K., MA, Tutor  
Kononov, S., BLitt MA  
Bell, H. E., MA Camb. & Oxon., FSA, Tutor & Librarian  
Cooke, A. H., MBE, MA DPhil, Tutor

Butterworth, J. B., MA, Bursar & Precentor  
Andrewes, A., MBE, MA, FBA, Wykeham Prof. of Anc. Hist.  
Buxton, E. J. M., MA, Tutor, Tutor for Admissions  
Nicholas, H. G., MA, Sub-Warden  
Carr, A. R. M., MA, Tutor, Dean of Arts  
Davies, K. G., MA Camb. & Oxon., Tutor  
Thomas, J. M., MA DPhil, Tutor, Sec. to Tuition Cttee.  
de Ste. Croix, G. E. M., BA Lond., MA, Tutor  
Bayley, J. O., MA, Tutor  
Quinton, A. M., MA, Tutor, Domestic Bursar  
Lamb, W. E., BS PhD Calif., Hon. DSc Penn., MA, FAPS, FIP, Wykeham Prof. of Phys.  
Milsom, S. F. C., MA Camb. & Oxon., Tutor, Dean  
Gravett, K. A. H., BSc PhD Lond., MA, Tutor  
Sandford, Sir Folliott H., KBE, CMG, MA  
Ayer, A. J., MA, FBA, Wykeham Prof. of Logic

Cowan, J., MA *Camb. & Oxon.*  
 Bennet, Rev. G. V., PhD *Camb.*, MA *Camb. & Oxon.*, DPhil, Tutor, *Dean of Div.*  
 Lumsden, D. J., MusB PhD *Camb.*, MA *Camb. & Oxon.*, DPhil  
 Dickens, P. G., MA DPhil, *Sr. Res. Fellow*  
 Blackwell, D. E., PhD *Camb.*, MA *Camb. & Oxon.*, *Savilian Prof. of Astron.*  
 Wiggins, D. R. P., MA

#### Other Lecturers

Martin, A. F., MA  
 Pusey, H. K., MA  
 Bailey, A. S., BSc MA DPhil  
 Lucas, R. L., PhD *Camb.*, MA  
 Tolkien, C. R., MA  
 Pring-Mill, R. D. F., MA  
 Joll, J. B., MA  
 Fennell, J. L. I., PhD *Camb.*, MA *Camb. & Oxon.*

Davies, J. D., LLB *Wales*, BCL MA  
 Marshall, G., PhD *Glas.*, MA *Manc. & Oxon.*  
 Wolf, W. P., MA DPhil  
 Griffith, T. G., MA *Dub.*, BLitt MA  
 Wise, B., MA  
 Jenkins, Rev. D. E., MA  
 Brown, G. M., MA DPhil  
 Warburg, E., PhD *Camb.*, MA  
 Treisman, M., BA  
 Rusinow, D. I., MA  
 Bowersock, G. W., BA  
 Payne, D. J., LLB *Lond.*, MA  
 Brasington, R. W. P., BA  
 Bentley, D. J., MA  
 Hunnisett, R. F., MA DPhil  
 Harris, R., MA DPhil  
 Glendinning, O. N. V., MA  
 Dummett, M. A. E., MA  
 Foster, C. D., MA

### ORIEL COLLEGE

Founded in 1326 by King Edward II. Students in residence (1959-60), 271.

Telephone: Oxford 41651.

Provost—K. C. Turpin, BLitt MA

#### Fellows

Hargreaves, E. L., PhD *Lond.*, MA, Tutor, *Lectr. in Econ.*  
 Burton, R. W. B., MA, Tutor, *Lectr. in Classics*  
 Gough, J. W., MA, Tutor, *Lectr. in Mod. Hist.*, *Librarian*  
 Pantin, W. A., MA, FBA, FRHistS, Tutor, *Lectr. in Mod. Hist.*  
 Crow, A. D., BLitt MA, *Sr. Tutor, Lectr. in French, Vice-Provost*  
 Moir, J. C., MD *Edin.*, Hon. LLD *Qu.*, MA DM, FRCSEd, FRCOG, *Nuffield Prof. of Obstet. & Gynaecol.*  
 Parker, Sir Karl T., CBE, PhD *Zür.*, MA, FBA, *Professorial Fellow*  
 Seton-Watson, C. I. W., MC, MA, Tutor, *Lectr. in Pol.*  
 Robinson, R., PhD *Corn.*, BLitt MA, Tutor, *Lectr. in Philos.*  
 Weddell, A. G. M., MD DSc *Lond.*, MA, Tutor, *Lectr. in Physiol.*  
 Porter, Rev. J. R., MA, Tutor, *Lectr. in Theol.*, *Chaplain*  
 Lambrick, H. T., CIE, MA, *Res. Fellow*  
 Brunt, P. A., MA, Tutor, *Lectr. in Anc. Hist.*, *Dean*  
 Ramsey, Rev. Canon I. T., MA *Camb. & Oxon.*, *Nolloth Prof. of Philos. of Christian Relig.*

Sparks, Rev. H. F. D., MA DD, FBA, *Oriel Prof. of Interpretation of Holy Scripture*  
 Brown, B. R., MA DPhil, Tutor, *Lectr. in Chem.*, *Sub-Dean*  
 Bagnall-Wild, Brigadier R. E., CBE, MA, *Treasurer*  
 Sanders, J. H., BSc *Lond.*, MA DPhil, Tutor & *Lectr. in Phys.*  
 Trevor-Roper, H. R., MA, *Regius Prof. of Mod. Hist.*  
 Watson, W. A. J., MA DPhil, *Benn Law Fellow & Lectr. in Jurispr.*

#### Other Lecturers

Clarke, G. R., BSc MA (*Agric. & For.*)  
 Pächt, O. E., PhD *Heidel.*, MA, FBA (*Hist. of Art*)  
 Quayle, J. R., MA (*Biochem.*)  
 Lambert, R. St. J., PhD *Camb.*, MA *Camb. & Oxon.*, FGS (*Geol.*)  
 Sutherland, N. S., MA DPhil (*Psychol.*)  
 Martin, A. F., MA (*Geog.*)  
 Venables, R. E., BA (*Engin. Sci.*)  
 Luke, F. D., MA DPhil (*German*)  
 Miller, B. D. H., BLitt MA (*Engl. Lang.*)  
 Rogers, J. M., BA (*Philos.*)

### PEMBROKE COLLEGE

Founded in 1624 by King James I. Students in residence (1959-60), 280.

Telephone: Oxford 42271.

Master—R. B. McCallum, AM *Prin.*, MA

#### Fellows

Salt, L. E., MA, *Emeritus Fellow*  
 Macnabb, D. G. C., MA, *Vicegerent, Sr. Tutor, Lectr. in Philos.*

Macintosh, Sir Robert R., MA DM, FRCSEd, *FFARCS, Nuffield Prof. of Anaesthetics*  
 Wrenn, C. L., MA, *Rawlinson & Bosworth Prof. of Anglo-Saxon*

Heuston, R. F. V., BA LLB *Dub.*, MA, Tutor for Admissions, *Lectr. in Jurisp.*  
 Bredin, G. R. F., CBE, MA, Bursar  
 Bond, G. W., BA *Dub.*, MA, Dean, *Lectr. in Classics*  
 Morris, Rev. C., MA, Chaplain, *Lectr. in Mod. Hist. & Theol.*  
 Deighton, Rev. H. S., BLitt MA, Supernumerary Fellow  
 O'Brien, J. R. P., BSc MA, *Lectr. in Nat. Sci.*  
 Mackesy, P. G., MA, *Lectr. in Mod. Hist.*  
 Browning, I. R., MA, Librarian, *Lectr. in Engl. Lit.*  
 Wilks, J., MA DPhil, *Lectr. in Phys. Sci.*  
 Baldick, R. A. E., MA DPhil, FRSL, *Lectr. in Mod. Langs.*  
 Whiting, M. C., BSc PhD *Lond.*, MA, *Lectr. in Chem.*

Wilkinson, F., BSc *Sheff.*, Albright & Wilson Res. Fellow in Chem.

Other Lecturers

Parker, Rev. T. M., MA DD, FRHistS (*Theol.*)  
 Paget, E., MA (*Geog.*)  
 Cowan, W. M., BM MA DPhil (*Anat.*)  
 Gray, D., MA N.Z. & Oxon. (*Engl. Lang.*)  
 Pelczynski, Z. A., MA St. And. & Oxon., DPhil (*Pol.*)  
 Caine, C. A., MA DPhil (*Maths.*)  
 Cuff, P. J., MA DPhil (*Anc. Hist.*)  
 Watson, W. A. J., MA (*Law*)  
 Hodgson, P. E., PhD *Lond.*, MA (*Theoret. Phys.*)  
 Burnett, H. W., BA (*Law*)

THE QUEEN'S COLLEGE

Founded in 1340 by Robert de Eglesfield, chaplain to Philippa of Hainault, wife of King Edward III. Students in residence (1959-60), 347. Telephone: Oxford 48411.

Provost—J. W. Jones, LLM *Camb.*, MA

Fellows

Carter, C. W., BM MA, Tutor & Prælector in *Physiol.*  
 Chilver, G. E. F., MA DPhil, Sr. Tutor & Prælector in *Anc. Hist.*  
 Haslam-Jones, U. S., MA DPhil, Tutor & Prælector in *Maths.*  
 Prestwich, J. O., MA, FRHistS, Tutor & Prælector in *Mod. Hist.*, Librarian  
 Linnett, J. W., MA DPhil, FRS, Tutor, Prælector in *Chem.*, Sec. of Tutorial Cttee.  
 Macdonald, I., MA *Glas. & Oxon.*, Tutor, Prælector in *French*, Laming Resident Fellow  
 Harley, J. L., MA DPhil, Prælector in *Bot.*  
 Kennedy, C. M., MA, Tutor & Prælector in *Econ.*  
 Kilpatrick, Rev. G. D., BA *Lond.*, MA DD, Dean *Ireland's Prof. of Exegesis of Holy Scripture*  
 Honoré, A. M., BA S.A., BCL MA, Prælector in *Law*  
 Bolton, J. D. P., MA, Tutor & Prælector in *Classics*, Camerarius  
 Pelling, H. M., PhD *Camb.*, MA *Camb. & Oxon.*, Tutor & Prælector in *Mod. Hist. & Pol.*  
 Calder, W. M., MA, Tutor & Prælector in *German*, Laming Resident Fellow  
 Moffatt, J., MA DPhil, Tutor & Prælector in *Phys.*  
 Černý, J., PhDr *Prague*, MA, FBA, Prof. of *Egyptol.*  
 Temple, G. F. J., CBE, PhD DSc *Lond.*, MA, FRS, FRAeS, Sedleian Prof. of *Nat. Philos.*  
 McGuinness, B. F., BPhil MA, Tutor & Prælector in *Philos. & Sec. of the Governing Body*

Chapman, W. G., MA *Aberd. & Oxon.*, Tutor & Prælector in *Spanish*, Laming Resident Fellow & Sec. of the Laming Cttee.  
 Jenkins, Rev. D. E., MA, Prælector in *Theol.*, Chaplain & Dean of Degrees  
 Cohen, L. J., MA, Tutor & Prælector in *Philos.*  
 Parker, R. A. C., MA DPhil, Tutor & Prælector in *Mod. Hist.*, Dean & Magister Puerorum  
 Marshall, G., MA *Manc. & Oxon.*, PhD *Glas.*, Tutor & Prælector in *Pol.*  
 Kaye, J. M., BCL MA, Tutor, Prælector in *Law & Asst. Dean*  
 Keen, M. H., BA, Jr. Res. Fellow  
 Williams, A. A., OBE, MA *Camb. & Oxon.*, Bursar  
 Acheson, R. M., BSc MA DPhil, Prælector in *Chem.*  
 Dalton, H. J. M., MA, FRCO, Organist, *Lectr. in Music*  
 Stahl, E. L., MA *Cape T. & Oxon.*, PhD *Berne*, Taylor Prof. of *German Lang. & Lit.*  
 Rickman, G. E., MA, Jr. Res. Fellow  
 Mowry, G. E., AB *Miami*, PhD *Wis.*, MA *Wis. & Oxon.*, H. V. Harmsworth Prof. of *American Hist.*  
 Parry, W. E., BA, Jr. Res. Fellow

Supernumerary Fellows

Elton of Headington, Rt. Hon. Lord, MA  
 House, H. W., DSO, MC, MA  
 Wright, T. E., MA  
 Parmoor of Frieth, Rt. Hon. Lord, MA

Lecturer

Foote, I. P., MA (*Russian*)

## ST. EDMUND HALL

Anciently associated with the name of St. Edmund of Abingdon, Archbishop of Canterbury, and founded about 1278. Students in residence (1959-60), 351. Telephone: Oxford 43574.

Principal—Rev. J. N. D. Kelly, Hon. DD *Glas.*, MA *Glas.* & *Oxon.*, DD

## Fellows

Irving, H. M. N. H., MA DPhil DSc, FRIC,  
*Vice-Principal, Tutor in Nat. Sci.*  
Ramsay, G. D., MA DPhil, FRHistS, *Tutor in*  
*Mod. Hist.*  
Fargher, R., BLitt MA DPhil, *Tutor in French,*  
*Dean of Degrees*  
Gullick, C. F. W. R., BLitt MA, *Sr. Tutor, Tutor*  
*in Geog.*  
Midgley, Rev. E. G., MA BLitt, *Tutor in Engl.,*  
*Dean*  
Yardley, D. C. M., LLB *Birm.*, MA DPhil,  
*Tutor in Jurisp.*  
Alton, R. E., MC, MA, *Bursar, Lectr. in Engl. Lit.*  
Series, G. W., MA DPhil, FAPS, *Tutor in Phys.*  
Mitchell, R. B., MA *Melb. & Oxon.*, DPhil, *Tutor*  
*in Engl. Lang.*  
Allen, G. R., MA, *Tutor in Soc. Stud.*  
Cowdrey, Rev. H. E. J., MA, *Tutor in Mod. Hist.,*  
*Chaplain*

Barnes, H. G., PhD *Tübingen*, MA, *Tutor in*  
*German*  
Hume-Rothery, W., OBE, PhD *Lond.*, Hon DSc  
*Manc.*, MA DSc, FRS, *Isaac Wolfson Prof.*  
*of Metall.*  
Pugh, R. B., MA, *Supernumerary Fellow*  
Todd, J. D., MA DPhil, *Tutor in Engin.*  
Gosling, J. C. B., BPhil MA, *Tutor in Philos.*

## Lecturers

Pusey, H. K., MA (*Zool.*)  
Phillips, E. G., MA DPhil (*Maths.*)  
Dummett, M. A. E., MA (*Philos.*)  
Foote, I. P., MA (*Russian*)  
Pollock, N. C., BA *Cape T.*, BLitt MA (*Geog.*)  
ter Haar, D., DrSc *Ley.*, MA *St. And. & Oxon.*  
(*Mathl. Phys.*)  
Jones, C. A., MA DPhil (*Spanish*)  
Scargill, D. I., BA (*Geog.*)  
Wilson, N. G., BA (*Classics*)

## ST. JOHN'S COLLEGE

Founded in 1555 by Sir Thomas White, alderman of the City of London.

Students in residence (1959-60), 308. Telephone: Oxford 47671.

President—W. C. Costin, MC, OBE, Hon. LLD *Br.Col.*, MA DLitt

## Fellows

Mabbott, J. D., CMG, Hon. MA *Edin.*, BLitt MA,  
*Sr. Tutor, Lectr. in Philos.*  
Slade, E., MA, *Tutor, Lectr. in Law*  
Thompson, H. W., CBE, PhD *Berl.*, MA DSc,  
FRS, *Tutor, Lectr. in Chem.*  
Moore, W. G., DLitt *Stras.*, MA, *Tutor, Lectr. in*  
*Mod. Langs.*  
Roberts, C. H., MA, FBA, *Professorial Fellow*  
Sherwin-White, A. N., MA, FBA, *Tutor, Lectr.*  
*in Anc. Hist.*  
Grice, H. P., MA, *Lectr. in Philos.*  
Martin, A. F., MA  
Blackman, G. E., BA *Camb.*, MA, FRS, *Sib-*  
*thorpean Prof. of Rural Econ.*  
Holmes, W., MA DPhil, *Tutor, Lectr. in Zool.*  
Colvin, H. M., MA, FRHistS, *Tutor, Lectr. in*  
*Mod. Hist., Librarian*  
Russell, D. A. F. M., MA, *Vice-President, Tutor,*  
*Lectr. in Classics, Sr. Dean of Arts*  
Garrard, N. A., MA, *Bursar*  
Richardson, G. B., BSc *Aberd.*, MA, *Tutor, Lectr.*  
*in Econ.*

Torrance, R. W., BSc BM MA, *Tutor, Lectr. in*  
*Physiol.*  
Beeston, A. F. L., MA DPhil, *Laudian Prof. of*  
*Arabic*  
Elliott, R. J., MA DPhil, *Tutor, Lectr. in Phys.*  
Thomas, K. V., MA, *Lectr. in Mod. Hist., Jr.*  
*Dean of Arts*  
Laurie, M. V., OBE, MA *Camb. & Oxon.*, *Prof.*  
*of For.*  
James, I. M., MA DPhil, *Sr. Res. Fellow, Lectr.*  
*in Pure Maths.*  
Leishman, J. B., BLitt MA, *Sr. Res. Fellow.*  
*Lectr. in Engl. Lit.*  
Hayes, W., DPhil, *Lectr. in Phys.*  
Heaton, Rev. Canon E. W., MA *Camb. & Oxon.*,  
*Tutor, Reader & Lectr. in Theol.*

## Other Lecturers

Calder, W. M., MA (*German*)  
Ward, A., MA (*Engl. Lang.*)  
Powell, T. P. S., MA (*Anat.*)  
Hurst, M. C., MA (*Mod. Hist. & Pol.*)  
Norman, R. O. C., BSc MA DPhil (*Org. Chem.*)  
Jesson, J. P., BA

TRINITY COLLEGE

Founded in 1554-55 by Sir Thomas Pope. Students in residence (1959-60), 244.  
Telephone: Oxford 41801.

President—A. L. P. Norrington, MA

Fellows

- Lambert, J. D., MA, Tutor, Lectr. in Nat. Sci.  
MacLagan, M., MA, FSA, Lectr. in Mod. Hist.,  
Vice-President & Sr. Tutor  
Phillips, C. G., BSc MA DM, MRCP, Tutor,  
Lectr. in Physiol.  
Holladay, A. J., MA, Tutor & Lectr. in Anc.  
Hist.  
Fletcher, R. A., DSC, MA DPhil, Domestic Bursar  
Woods, D. D., PhD Camb., MA Camb. & Oxon.,  
FRS, Professorial Fellow  
Cooper, J. P., MA, Lectr. in Mod. Hist., Librarian  
Barnett, F. J., MA, Lectr. in Mod. Langs.  
Krebs, Sir Hans A., MD Hamburg, Hon. DSc  
Chic. & Lond., Hon. MD Freib., Hon. LLD  
Glas., MA Camb. & Oxon., FRS, Professorial  
Fellow  
Wright, J. F., MA, Lectr. in Econ. & Estates  
Bursar  
Wind, E., DPhil Hamburg, MA, Professorial  
Fellow

Lemmon, E. J., MA, Lectr. in Philos.

Reid, T. B. W., MA LLD Dub., LèsL Mont-  
pellier, MA Manc. & Oxon., Professorial  
Fellow  
Raven, D. S., BLitt MA, Lectr. in Classics, Dean  
Houlden, J. L., MA, Chaplain & Lectr.

Other Lecturers

- Hammersley, J. M., MA DSc (Maths.)  
Powell, T. P. S., MA (Anat.)  
Smith, C. G., MA (Geog.)  
Davies, W. T., PhD Camb., MA Camb. & Oxon.  
(Phys.)  
Brunet, P. C. J., MA DPhil (Zool.)  
Glazebrook, P. R., BA (Law)  
Tucker, R. G., MA (Biochem.)  
Burden, D. H., MA (Engl. Lang. & Lit.)  
Millar, F. G. B., BA (Anc. Hist.)  
Rose, S., MA DPhil (Pol.)  
Wise, B., MA Camb. & Oxon. (Engin.)  
Bailey, A. S., BSc MA DPhil (Inorg. Chem.)

UNIVERSITY COLLEGE

Connected by ancient tradition with the name of Alfred the Great, but first historically endowed  
in 1249 by William of Durham, said to have been Rector of Wearmouth and Archdeacon of Durham.  
Students in residence (1959-60), 331. Telephone: Oxford 41661.

Master—A. L. Goodhart, Hon. KBE, QC, LLD Camb., Hon. LLD Edin., Belf., Yale,  
Calif., Col., Lond., N.Y. & Dal., DCL, FBA

Fellows

- Bowen, E. J., MA DSc, FRS, Prælector in Chem.,  
Registrar  
Wells, A. F., OBE, MA, Prælector in Classics,  
Dean  
Cox, A. D. M., MA, Prælector in Mod. Hist., Sr.  
Tutor  
Paul, G. A., MA Camb. & Oxon., Prælector in  
Philos., Domestic Bursar  
Cunningham, D. J. C., MB ChB Edin., MA,  
Radcliffe Med. Fellow  
Bayley, P. C., MA, Prælector in Engl. Lit.,  
Keeper of Coll. Bldgs.  
Strawson, P. F., MA, Prælector in Philos., Dean  
of Degrees  
Cawkwell, G. L., MA N.Z. & Oxon., Prælector in  
Anc. Hist., Librarian  
Wager, L. R., ScD Camb., MA Camb. & Oxon.,  
FRS, FGS, Prof. of Geol.  
Hart, H. L. A., MA, Prof. of Jurisp.  
Parker, Rev. T. M., MA DD, FRHistS, Chaplain,  
Prælector in Theol. & Mod. Hist.  
Berman, R., MA Camb. & Oxon., DPhil, Præ-  
lector in Phys., Camerarius

- Guest, A. G., MA, Prælector in Jurisp., Jr. Dean  
Shock, M., MA, Weir Fellow, Prælector in Pol.,  
Estates Bursar  
Firth, A. E., BA, Theodosius Fellow, Prælector in  
Mod. Hist., Secretary  
Hawkes, D., MA DPhil, Prof. of Chinese  
Stout, D. K., BA, Mynors Fellow, Prælector in  
Econ.  
Campbell, J. D. E., PhD Camb., MA Camb. &  
Oxon., DPhil, Weir Fellow, Prælector in  
Engin.

Other Lecturers

- Chalk, L., MA DPhil, FLS (For.)  
Wilkins, W. H., MA DPhil (Bot.)  
Ford, E. B., MA DSc, FRS (Zool.)  
Sandford, K. S., TD, MA DPhil DSc (Geol.)  
Beckinsale, R. P., MA Lond. & Oxon., DPhil,  
FRHistS (Geog.)  
Schenk, H. G. A. V., DrJur Prague, MA DPhil  
(Mod. Hist.)  
Gravett, K. A. H., BSc PhD Lond., MA (Maths.)  
Tolkien, C. R., MA (Engl. Lang.)  
Tolley, B. R., BA (Mod. Langs.)



## WADHAM COLLEGE

Founded in 1612 by Nicholas Wadham and his wife Dorothy. Students in residence (1959-60), 342.  
Telephone : Oxford 42564.

Warden—Sir C. Maurice Bowra, Hon. LittD *Dub.*, Hon. LLD *St.And.*, Hon. DLitt *Hull*,  
Hon. DUParis & Aix-Marseilles, MA DLitt, PBA

## Fellows

Keeley, T. C., CBE, MA *Camb. & Oxon.*,  
FIP, Tutor in *Phys.*, Sub-Warden, *Wills*  
Fellow

Thompson, J. H. C., MA DPhil, Tutor in *Maths.*,  
*Estates Bursar & Keeper of the Gardens*

Westrup, Sir J. A., BMus MA Hon. DMus, FBA,  
*Heather Prof. of Music*

Bamborough, J. B., MA, Tutor in *English*, *Sr.*  
Tutor

Crombie, I. M., MA, *Webster Fellow*, Tutor in  
*Philos.*, Librarian

Thompson, A. F., MA, Tutor in *Mod. Hist.*

Carter, P. B., BCL MA, Tutor in *Law*

Stone, L., MA, Lectr. in *Mod. Hist.* & Keeper of  
*the Archives*

Forrest, W. G. G., MA, Lectr. in *Anc. Hist.* &  
Dean of Degrees

Coulson, C. A., PhD *Camb.*, DSc *St. And.*, MA  
*Camb. & Oxon.*, FRS, FIP, Rouse Ball Prof.  
of *Maths.*

Stinton, T. C. W., MA, Lectr. in *Classics*

Williams, R. J. P., MA DPhil, Lectr. in *Chem.*

Stewart, D. M., MA, Lectr. in *Mod. Langs.* &  
Dean

Blin-Stoyle, R. J., MA DPhil, Lectr. in *Phys.*

Bleaney, B., MA DPhil, FRS, Dr. Lee's Prof. of  
*Exper. Philos.*

McLeod, J. B., MA, Lectr. in *Pure Maths.*

## Other Lecturers

Clegg, H. A., MA (*Pol.*)

Ward, A., MA (*Engl. Lang.*)

MacDougall, Sir Donald, CBE, MA (*Econ.*)

Lewis, P. S., MA (*Mod. Hist.*)

Cullity, M. C. (*Law*)

## WORCESTER COLLEGE

Established in 1283 as a school for Benedictine monks under the name of Gloucester College,  
and incorporated under its present name in 1714. Students in residence (1959-60), 308. Telephone :  
Oxford 47251.

Provost—Sir John C. Masterman, OBE, Hon. LLD *Tor.*, Hon. DCL K.C.N.S., MA

## Fellows

Bryan-Brown, A. N., MA, Vice-Provost, *Sr.*  
Tutor, Lectr. in *Classics*

Brown, A. B., BCL, MA, *Estates Bursar*, Tutor,  
Lectr. in *Law*

Mitchell, D., MA, Tutor, Lectr. in *Philos.*

Trueta, J. A., MD *Barcelona*, Hon. DSc *Bogotá*,  
Hon. MD *Buenos Aires & Rio de Janeiro*, MA  
Hon. DSc, FRCS, Hon. FRCSCan, FRFPS  
*Glas.*, Professorial Fellow

Pitt, H. G., MA, Dean, Lectr. in *Mod. Hist.*

Dawes, G. S., BSc MA DM, *Supernumerary*  
Fellow

Sayce, R. A., MA DPhil, Librarian, Tutor, &  
Lectr. in *Mod. Langs.*

Walker, J. M., BSc MA DM, Dean of Degrees,  
Tutor & Lectr. in *Physiol.*

Wernham, R. B., MA, FRHistS, Professorial  
Fellow

Sargent, J. R., MA, Lectr. in *Econ.*

Palmer, L. R., BA *Wales*, DrPhil *Vienna*, PhD  
*Camb.*, MA, Professorial Fellow

Price, F. V., BSc MA DPhil, Lectr. in *Nat. Sci.*

Campbell, J., MA, Lectr. in *Mod. Hist.*

Ricks, C. B., MA BLitt, Lectr. in *Engl. Lit.*

Danby, C. J., BSc MA DPhil, Lectr. in *Chem.*

Gill, E. W., MA DPhil, Res. Fellow

Graham, Rev. A. A. K., Chaplain & Lectr. in  
*Theol.*

Reynolds, F. M. B., BCL MA, Lectr. in *Law*

Hinton, J. M., MA *St.And.* & *Oxon.*, Lectr. in  
*Philos.*

Frederiksen, M. W., MA, Lectr. in *Anc. Hist.*

## Lecturers

McKay, G. W., MA (*German*)

Kornberg, H. L., MA (*Biochem.*)

Franklin, R. E., BSc PhD *Lond.*, MA (*Engin.*)

Kitzinger, U., BLitt MA (*Pol.*)

## New Foundations

## ST. PETER'S HALL

Established in 1928 as a memorial to the late F. J. Chavasse, DD, formerly Bishop of Liverpool,  
and admitted to the privileges of a 'new foundation' in 1947. Students in residence (1959-60), 252.  
Telephone : Oxford 48436.

Master—Rev. J. P. Thornton-Duesbery, MA

## Fellows

Houghton, Rev. R. E. C., MA, Tutor in *Engl. Lit.*,  
Librarian

Smith, E. H. F., MA, Vice-Master, Tutor in *Mod.*  
*Hist.*

Sutton, C. W. H., MA, *Tutor in Philos. & Dean of Degrees*  
 Perman, R. C. D., MA, *Tutor in Mod. Langs. & Besse Lectr. in French*  
 Vernède, R. V., MA, *Bursar*  
 Caine, C. A., MA DPhil, *Tutor in Maths.*  
 Woodgate, G. K., MA DPhil, *Mullard Fellow & Tutor in Phys.*  
 McKay, G. W., MA, *Tutor in German*  
 Watson, Rev. W. L. R., MA Dub., Camb. & Oxon., *Chaplain, Lectr. in Theol.*  
 Peacocke, A. R., BSc MA DPhil, *Tutor in Chem.*

**Lecturers**  
 Burchfield, R. W., MA (*Engl. Lang.*)  
 Yardley, D. C. M., LLB Birm., MA DPhil (*Jurisp.*)  
 Cowdrey, Rev. H. E. J., MA (*Mediæv. Hist.*)  
 Emery, F. V., BLitt MA (*Geog.*)  
 Cain, A. J., MA DPhil (*Zool.*)  
 Mervyn Jones, D., MA Camb. & Oxon. (*Classics*)  
 Rose, B. W. G., MusB Camb., MA Camb. & Oxon., DMus, FRCO (*Music*)  
 Todd, J. D., MA DPhil (*Engin. Sci.*)  
 Cooper, K. E., MB BS MSc Lond. (*Physiol.*)  
 Corina, J. G., BA (*Econ.*)

### ST. ANTONY'S COLLEGE

Founded by the gift of the late M. Antonin Besse, of Aden, and admitted to the privileges of a 'new foundation' in 1950. The college places particular emphasis on graduate studies in modern subjects and admits a high proportion of students from abroad. Students in residence (1959-60), 59. Telephone: Oxford 59651.

Warden—F. W. D. Deakin, DSO, MA

#### Fellows

Joll, J. B., MA, *Official Fellow & Sub-Warden*  
 Hailey, P. C., OBE, MA, *Official Fellow & Bursar*  
 Footman, D. J., CMG, MC, MA, *Official Fellow*  
 Hudson, G. F., MA, *Official Fellow*  
 Rose, S., MA DPhil, *Dean of Degrees*  
 Hourani, A. H., MA, *Official Fellow*  
 Storry, G. R., MA, *Roger Heyworth Memorial Fellow in Far Eastern Studies & Lectr.*  
 Hayward, H. M., MA  
 Kirkwood, K., MA, *Rhodes Prof. of Race Relations*  
 Jackson, E. F., BEcon Birm., MA, *Professorial Fellow*  
 Watkins, D. E., MA, *Res. Fellow*  
 Iyer, R. N., MA, *Agatha Harrison Res. Fellow*

Luard, D. E. T., BA, *Res. Fellow*  
 Zeldin, T., MA DPhil, *Res. Fellow*  
 Campbell, J. K., MA DPhil, *Res. Fellow*  
 Parker, J. S. F., MA, *Res. Fellow*  
 Shehab, F., MA DPhil, *Res. Fellow in Middle East Studies*  
 Katkov, G., MA, *Res. Fellow in Russian Studies*  
 Bownas, G., MA, *Res. Fellow*  
 Adie, W. A. C., MA, *Res. Fellow*  
 Willetts, H. T., MA, *Res. Fellow*  
 Kaser, M. C., *Res. Fellow in E. European Studies*  
 Lienhardt, P. A., BA BLitt DPhil, *Res. Fellow in Middle East Studies*  
 Maraini, F., *Res. Fellow in Asian Studies*  
 Bonnín, G. C., BLitt, *Res. Fellow*

### Men's and Women's College

#### NUFFIELD COLLEGE

Founded in 1937 by the Viscount Nuffield 'to encourage postgraduate research especially but not exclusively in the field of social studies and especially by making easier the co-operation of academic and non-academic persons', and incorporated by royal charter in 1958. Students in residence (1959-1960), 34. Telephone: Oxford 48014.

Warden—D. N. Chester, CBE, MA *Manc. & Oxon.*

#### Fellows

Perham, Margery F., CBE, Hon. LLD St. And., MA, *Official Fellow in Imperial Govt.*  
 Frankel, S. H., PhD DSc(Econ) Lond., MA Rand & Oxon., *Prof. of Colonial Econ. Affairs*  
 Andrews, P. W. S., BSc(Econ) Lond., MA, *Official Fellow*  
 MacDougall, Sir Donald, CBE, MA, *Official Fellow & Bursar*  
 Clegg, H. A., MA, *Official Fellow*  
 Keith-Lucas, B., MA Camb. & Oxon., *Faculty Fellow & Domestic Bursar*  
 Seton, F., MA DPhil, *Official Fellow*  
 Plamenatz, J. P., MA, *Official Fellow*  
 Butler, D. E., MA DPhil, *Official Fellow, Sr. Tutor & Dean*

Little, I. M. D., AFC, MA DPhil, *Official Fellow & Bursar*  
 Hartwell, R. M., MA Syd. & Oxon., DPhil, *Professorial Fellow & Librarian*  
 Robinson, F. N. H., MA DPhil, *Faculty Fellow*  
 Madden, A. F., BLitt MA DPhil, FRHistS, *Professorial Fellow & Dean of Degrees*  
 Williams, P. M., MA, *Official Fellow*  
 Munby, D. L., MA, *Professorial Fellow*

#### Visiting Fellows

Heyworth, Rt. Hon. Lord, Hon. LLD St. And. & Manc., Hon. DCL  
 Woods, Sir John H. E., GCB, MVO, MA  
 Allen, W. M., MA  
 Maudling, Rt. Hon. R., MA

Webber, W. J. P., MA  
 Plowden, Lord, KCB, KBE, BA *Camb.*  
 Woodhouse, Hon. C. M., DSO, OBE, MA, FRSL  
 Carron, W. J., MA  
 Franks, Rt. Hon. Sir Oliver S., GCMG, KCB,  
 MA Hon. DCL  
 Callaghan, L. J., MA  
 McLachlan, D. H., OBE, BA  
 Research Fellows  
 Willson, F. M. G., BA(Admin) *Manc.*, MA DPhil  
 Kitzinger, U., BLitt MA  
 Fox, A., MA  
 Jasay, A. E., BA *W.Aust.*

Harrison, M., BA *Manc.*, DPhil  
 Farquharson, R. R., MA DPhil  
 McCarthy, W. E. J., BA  
 Birnbaum, N., PhD *Harv.*  
 Bhagwati, J. N., BA  
 Shapiro, D. M., BA BPhil  
 Corina, J. G., BA  
 Pasinetti, L. L.  
 Hanson, A. H., MA

Chaplain  
 Lee, Rev. R. S., BLitt MA DPhil

### *St. Catherine's Society*

(see also p. 1162)

### ST. CATHERINE'S SOCIETY

Established 1868 as Delegacy of Non-Collegiate Students; the present name was adopted in 1930.  
 Students in residence (1959-60), 368. Telephone: Oxford 43527.

Censor—A. L. C. Bullock, MA

Tutors  
 Horwood, F. C., MA (*Engl.*), Dean  
 Knapp, W. F., MA (*Pol.*), Bursar  
 Simopoulos, J. C., BPhil MA (*Philos.*)  
 Holmes, G. A., PhD *Camb.*, MA *Camb. & Oxon.*  
 (*Mod. Hist.*), Librarian  
 Brewer, F. M., MBE, PhD *Corn.*, BSc MA, FRIC  
 (*Chem.*)  
 Shaw, P. F. D., MA DPhil (*Phys.*)  
 Davies, J. D., LLB *Wales*, BCL MA (*Law*)  
 Horgan, A. D., MA (*Engl.*)  
 Spencer, P. H., PhD *Camb.*, MA *Camb. & Oxon.*  
 (*French*)  
 Dickson, P. G. M., MA (*Mod. Hist.*), Dean of  
 Degrees

Baragwanath, L. E., BA *Melb.*, BPhil MA  
 (*Econ.*)  
 Stocken, L. A., BSc *Lond.*, MA DPhil, FRIC  
 (*Biochem.*)  
 Tayler, A. B., MA DPhil (*Maths.*)  
 Martin, J. W., PhD *Camb.*, MA *Camb. & Oxon.*,  
 DPhil  
 Smith, E. B., BSc PhD *Liv.*, MA (*Chem.*)

Lecturers  
 Houston, J. M., MA *Edin. & Oxon.*, BSc DPhil  
 (*Geog.*)  
 Bateson, F. N. W., BLitt MA (*Engl. Lit.*)  
 Cowan, J., MA *Camb. & Oxon.* (*German*)

### *Permanent Private Halls*

#### CAMPION HALL

Established 1896 for members of the Society of Jesus only, and granted present status in 1918.  
 Students in residence (1959-60), 42. Telephone: Oxford 41342.

Master—Rev. A. D. Doyle, MA

Rooney, Rev. P. H., MA, Bursar

Lecturers and Tutors

FitzGibbon, Rev. B., MA, Tutor (*Mod. Hist.*),  
 Chaplain, Librarian

Neylan, Rev. W. J., MA, Tutor (*Classics*)  
 Slattery, Rev. W. J., MA, Tutor (*Philos.*)  
 Turner, Rev. V. G., MA, Sr. Tutor, Tutor  
 (*Philos.*), Dean of Degrees

#### GREYFRIARS

Established in 1910, and granted its present status in 1957. It now receives undergraduates for tuition in any school, giving priority of acceptance to student members of all branches of the Franciscan Order. Students in residence (1959-60), 16. Telephone: Oxford 43694.

Warden—Very Rev. P. E. L. Peacock, MA DMus

Tutor: O'Neill, Rev. E. J., MA

MANSFIELD COLLEGE

Founded in 1886 to provide 'a Free Church faculty in theology in Oxford', and a college for the training of dissenting ministers, chiefly but not exclusively of the Congregationalist denomination, and granted its present status in 1955. The college now receives undergraduates for tuition for the BA degree, and graduates, not necessarily of Oxford, for training in theology. Students in residence (1959-60), 39. *Telephone*: Oxford 485671.

Principal—Rev. J. Marsh, Hon. DD *Edin.*, MA *Edin.* & *Oxon.*, DPhil

Tutors  
Caird, Rev. G. B., Hon. DD *Montr.*, MA DPhil,  
*Sr. Tutor*  
Ditmanon, Rev. H. H., BA MTh *Prin.*, PhD *Yale*,  
*Dean of Lutheran Students*

Sykes, D. A., BA  
Yeaxlee, Rev. B. A., CBE, BA PhD *Lond.*, BLitt  
MA, FBP's, *Librarian & Dean of Degrees*

REGENT'S PARK COLLEGE

Originally founded in 1810 as the 'Baptist Academical Institution in Stepney', established in Oxford between 1927 and 1940, and granted its present status in 1957. The college admits theological students and others wishing to read either for the BA degree or for research degrees. Students in residence (1959-60), 32. *Telephone*: Oxford 59887.

Principal—Rev. G. H. Davies, Hon. DD *Glas.*, BD *Wales*, MA *Wales & Oxon.*, BLitt

Tutors: Argyle, Rev. A. W., BD MA, *Dean, Librarian & Angus Lectr.*;  
Pearce, Rev. G. J. M., MA *Birm. & Oxon.*, PhD *Aberd.*

ST. BENET'S HALL

Established 1897 for members of the English Benedictine Abbey of Ampleforth, Yorkshire only, and granted present status in 1918. Students in residence (1959-60), 19. *Telephone*: Oxford 55006.

Master—Rev. F. G. Sitwell, MA

Women's Colleges

(Admitted to full college status in 1959)

LADY MARGARET HALL

Founded in 1878 under a trust deed, and incorporated by royal charter in 1926.

Students in residence (1959-60), 241. *Telephone*: Oxford 57214.

Principal—Lucy S. Sutherland, CBE, MA DLitt, FBA

Fellows

Lea, Kathleen M., MA, *Vice-Principal, Tutor in Engl.*  
Sutherland, Mrs. D. Rhoda, MA, *Tutor in French Philol.*  
Ewart, Annette M., MA, *Bursar*  
Kneale, Mrs. Martha, MA, *Tutor in Philos. & Lynda Grier Fellow*  
Humard, Naomi D., MA DPhil, FRHistS, *Tutor in Hist., Sir Ernest Cassel Fellow*  
Whiteman, E. Anne O., MA DPhil, FSA, FRHistS, *Tutor in Mod. Hist.*  
Hicken, Winifred F., MA DPhil, *Tutor in Classics*  
Agate, Joan, MA, *Sec. & Treasurer*  
Crow, Mrs. Joan, MA, *Tutor in French Lit.*  
Jeffery, Lilian H., MA *Camb. & Oxon.*, DPhil, FSA, *Tutor in Anc. Hist.*  
Stewart, Mrs. Alice M., MD *Camb.*, MA, FRCP, *Reader in Soc. Med.*

Jennings, Hon. Mrs. Margaret A., MA DM, *Science Res. Fellow*  
Mackenzie, Elizabeth G. W., MA, *Tutor in Engl. Lit. & Librarian*  
Ord, Margery G., BSc PhD *Lond.*, MA, *Tutor in Nat. Sci.*  
O'Brien, Mary C. M., MA DPhil, *Tutor in Maths. & Theoret. Phys.*  
Bülbring, Edith, DM *Bonn*, MA, FRS, *Reader in Pharmacol.*  
Glanville, Lucia, BLitt MA, *Tutor in Engl. Lang.*  
Pennington, Anne E., MA, *Tutor in Russian*

Lecturers

Marshall, Mary, MA (*Geog.*)  
Ing, Mrs. Catherine M., MA DPhil (*Engl. Lit.*)  
Kean, Patricia M., MA (*Engl. Lang.*)  
Crowther, Mrs. Wilma B., MA (*Zool.*)  
Dick, Mrs. Cecilia R., MA (*Mod. Hist.*)

## ST. ANNE'S COLLEGE

Founded in 1879 as the Society of Oxford Home-Students, became St. Anne's Society in 1942, and was incorporated by royal charter 1952. Students in residence (1959-60), 279. Telephone: Oxford 57417.

Principal—Lady Ogilvie, Hon. LLD *Wilson & Belf.*, MA

## Fellows

Ady, Miss Peter H., MA, *Tutor in Econ.*  
 Barnes, Mrs. Annie M., DrPhil *Berne*, MA DPhil,  
*Tutor in French*  
 Bayley, Mrs. Jean I., MA, *Tutor in Lit. Hum.*  
 Bednarowska, Mrs. Dorothy M., MA, *Tutor in Engl.*  
 Ely, Elizabeth M., LLM *Yale*, BCL MA, *Tutor in Jurisp.*  
 Griffiths, Mary E., MA, *Tutor in Engl.*  
 Hart, Mrs. Jenifer M., MA, *Tutor in Mod. Hist.*  
 Hubbard, Margaret E., MA, *Tutor in Classics*  
 Kearsley, Mary J., MA DPhil, *Tutor in Maths.*  
 Livock, Dora M., MA, FCA, *Treasurer*

May, Marjorie B., BLitt MA, *Tutor in French*  
 Morrison, Christine L., MA, *Tutor in Engl.*  
 Reeves, Marjorie E., PhD *Lond.*, MA, FRHistS,  
*Vice-Principal, Tutor in Mod. Hist.*  
 Taylor, Mrs. Ann G., BM MA, *Lectr. in Physiol.*

## Supernumerary Fellows

Harvey, Ruth C., MA, *Lectr. in German*  
 Neame, Mrs. Elizabeth, MA

## Lecturers

Hallaway, Hester M., MA DPhil (*Biochem.*)  
 Ingham, Mrs. Patricia T., MA (*Engl. Lang.*)  
 Lewis, Mrs. Ruth G., BA (*Mod. Hist.*)  
 Mitchell, Mrs. Barbara M., MA (*Anc. Hist.*)  
 Pearce, Stella A., MA (*Zool.*)

## ST. HILDA'S COLLEGE

Founded as St. Hilda's Hall in 1893, and incorporated by royal charter in 1926. Students in residence (1959-60), 224. Telephone: Oxford 41821.

Principal—Kathleen Major, BLitt MA, FSA, FRHistS

## Fellows

Smalley, Beryl, PhD *Manc.*, MA *Manc. & Oxon.*,  
 FRHistS, *Vice-Principal, Tutor in Mod. Hist.*  
 Gardner, Helen L., MA, FBA, *Professorial Fellow, Reader in Renaissance Engl. Lit.*  
 Crowe, Sibyl E., PhD *Camb.*, MA *Camb. & Oxon.*,  
 FRHistS, *Tutor in Pol.*  
 Gerard Davis, Mrs. Mary I., MA DPhil, *Tutor in Mod. Langs.*  
 Tomlinson, Muriel L., MA *Camb. & Oxon.*, DPhil,  
 FRIC, *Tutor in Nat. Sci.*  
 Prestwich, Mrs. Menna, MA, FRHistS, *Tutor in Mod. Hist.*  
 McCormick, Eileen M., BSc(H&SSc) *Lond.*, MA,  
*Bursar*  
 Browne, Sheila J., MA, *Tutor in Mod. Langs.*  
 Hill, Mrs. Bridget, BSc(Econ) *Lond.*, *Treasurer*  
 Elliott, Anne H., MA, *Tutor in Engl. Lit.*  
 Sisam, Celia, MA, *Tutor in Engl. Lang.*

Christie, Margaret I., PhD *Glas. & Camb.*, MA  
*Glas., Camb. & Oxon.*, *Tutor in Nat. Sci.*  
 Rayner, Margaret E., MSc *Lond.*, MA DPhil,  
*Tutor in Maths.*

## Research Fellow

Creed, Mrs. Sybil, PhD *Camb.*, MA *Camb. & Oxon.*

## Probationary Fellow

Levick, Barbara M., MA DPhil, *Librarian & Lectr. in Classics*

## Lecturers

Fillenz, Marianne, DPhil (*Physiol.*)  
 Ing, Mrs. Catherine M., MA DPhil (*Engl. Lit.*)  
 Paul, Mrs. Margaret E., BPhil MA (*Econ.*)  
 Varley, Mrs. Margaret E., MA *Camb. & Oxon.*  
*(Zool.)*  
 Wolfram, Mrs. Eva M. S., MA DPhil (*Philos.*)

## ST. HUGH'S COLLEGE

Founded as St. Hugh's Hall in 1886, and incorporated by royal charter in 1926. Students in residence (1959-60), 208. Telephone: Oxford 57341.

Principal—Evelyn E. S. Procter, MA

## Fellows

Headlam-Morley, Agnes, BLitt MA, *Montague Burton Prof. of Internat. Relations*  
 Gray, Dorothea H. F., OBE, MA, *Vice-Principal, Tutor in Classics*  
 Adam, Madge G., MA DPhil, *Res. Fellow*  
 Busbridge, Ida W., MSc *Lond.*, MA DPhil,  
*Tutor in Maths.*

Kemp, Betty, BA *Manc.*, MA, *Tutor in Hist.*  
 Smith, Hon. Honor M. V., BSc MD *Lond.*, MA,  
 MRCP, *Res. Fellow, May Reader in Med.*  
 Gradon, Pamela O. E., PhD *Lond.*, MA, *Tutor in Engl. Lang.*  
 Wells, Agnes P., BA *Lond.*, MA, *Treasurer*  
 Warnock, Mrs. Helen M., BPhil MA, *Tutor in Philos.*

Wood, Mrs. Susan M., BLitt MA, Tutor in *Medieval Hist.*  
 Sweeting, Marjorie M., PhD Camb., MA Camb. & Oxon., Dean, Tutor in *Geog.*  
 Trickett, Mabel R., MA, Tutor in *Engl. Lit.*  
 Jacobs, Margaret, BLitt MA, Tutor, *Cassel Lectr. in German*  
 Bleaney, Mrs. Betty I., MA, Asst. Tutor in *Nat. Sci.*  
 Daniel, Vera J., BA PhD Lond., MA, Tutor in *French*

Dickinson, Joycelyne G., MA DPhil, *Librarian*  
 Tutors and Lecturers  
 Lunt, Mary R., MA DPhil, *Asst. Tutor in Nat. Sci.*  
 Roaf, Mrs. Evelyn C. M., MA DPhil, *Martinengo Cesaresco Lectr. in Italian*  
 Cooper, Theodore C., MA Camb., *Lectr. in Econ.*

### SOMERVILLE COLLEGE

Founded as Somerville Hall in 1879, and incorporated by royal charter in 1926.  
 Students in residence (1959-60), 269. Telephone: Oxford 57595.

Principal—Dame Janet M. Vaughan, DBE, MA DM, FRCP

#### Fellows

Henderson, Mrs. M. Isobel, MA, *Vice-Principal, Tutor in Anc. Hist.*  
 Hartley, Mildred, MA Camb. & Oxon., Tutor in *Classics*  
 Armstrong, Mrs. Annette E., MA DPhil, Tutor in *French Lit., Dean of Degrees*  
 Hall, Lady (Laura M.), MA, Tutor in *Econ.*  
 Dropke, Mrs. Ursula M., BLitt MA, FSA, Tutor in *Engl. Lang.*  
 Foot, Mrs. Philippa R., MA, Tutor in *Philos., Alice Cobb Res. Fellow*  
 Banister, Rachel J., BSc Edin., MA, Tutor in *Physiol.*  
 Syfret, Rosemary H., MA Camb. & Oxon., Tutor in *Engl. Lit.*  
 Ramm, Agatha, MA Lond. & Oxon., FRHistS, Tutor in *Mod. Hist.*  
 Cobbe, Anne P., MA DPhil, Tutor in *Maths.*  
 Harvey, Barbara F., BLitt MA, Dean, Tutor in *Mod. Hist.*  
 Proudfoot, Mrs. Mary, MBE, BLitt MA, Sec., *Treasurer, Lectr. in Pol.*

#### Professorial Fellows

Starkie, Enid M., Dèsl Paris, Hon. DLitt Exe., MA DLitt, FRSL

Hodgkin, Mrs. Dorothy M., PhD Camb., Hon. DSc Leeds, BSc MA, FRS  
 Pirie, Mrs. Antoinette, MA  
 Lascelles, Mary M., BLitt MA

#### Research Fellow

Humphreys, Mrs. Sarah C. Le M., BA, *Mary Somerville Fellow*

#### Tutors and Lecturers

Sayce, Mrs. Olive L., MA, *Sarah Smithson Lectr. (German)*  
 Turville-Petre, Mrs. Joan E., BLitt MA (*Engl. Lang.*)  
 Anscombe, G. Elizabeth M. (Mrs. Geach), MA (*Philos.*)  
 Roaf, Mrs. Evelyn C. M., MA DPhil (*Italian*)  
 Richards, Mrs. Eva, BSc Lond. (*Chem.*)  
 de Villiers, Lady (Evangeline), OBE, BLitt MA (*Hist.*)  
 Harding, Mrs. Marjorie M., BA (*Chem.*)  
 Robinson, F. N. H., MA DPhil (*Phys.*)  
 Maudsley, R. H., BCL MA (*Jurisp.*)

## GENERAL INFORMATION

[See below, p. 1169, under 'Publications', for pamphlets giving information about admission, residence, entrance scholps., expenses, exams., degrees, research, etc.]

There is evidence that there existed in Oxford in the early 12th century schools which by the end of that cent. had developed into a univ., a development perhaps helped by the fact that about the year 1167 English students were prevented from attending the Univ. of Paris. By about 1200 there were a number of masters lecturing on various subjects, incl. the recently recovered works of Aristotle, and in 1214 the univ. received its first recorded recognition as a body in a grant by the papal legate of certain privileges incl. reduction of the rents it paid. In the 13th cent. the coming of the friars, notably the dominicans

and franciscans, strengthened the univ., especially in the theological fac. In the same cent. the 3 first colls. (University, Balliol and Merton) were endowed, and 12 more were founded between 1300 and 1355. During the middle ages, however, the colls. were more or less reserved for graduate fellows (as All Souls still is), and the great majority of undergraduates and graduates lived in a large number of academic 'halls', or hostels, scattered about the town. The univ. at first had no buildings of its own, but made use of hired lecture rooms or of churches, especially St. Mary's church, until, in the 15th cent., the divinity sch.

was built. From the 13th cent. onwards the position of the univ. was strengthened by a succession of charters from the crown, but during the Reformation it suffered from the suppression of the monastic colls. In 1571 the univ. was incorporated by act of parliament, and much reorganization followed; in particular, the undergraduates now came to be included in the colls. Professorships were first endowed in the early 16th cent., and increased notably in the early 17th cent. The important code of statutes introduced in 1636 by Archbishop Laud, chancellor of the univ., remained in force, with certain modifications, for about 150 years. During the civil war the univ. supported the king, who made Oxford his headquarters, and parliament met there. The later 17th cent. saw an increase of scientific studies at Oxford; and towards the end of the 18th cent. the standard of studies rose as written exams. gradually took the place of oral exams. The constitution was revised, as a result of the work of royal commissions, in 1854 and in 1877: coll. statutes were re-made and studies reorganized, and the professoriate was increased and re-endowed. In 1871 religious tests were abolished, and the MA degree was thrown open to non-conformists; and since 1920 women have been admitted to membership of the univ. under the same conditions as men as regards standing, exams., courses of study and fees, and residence. As a result of the work of a further royal commission, the existing constitutional arrangements were adapted in 1923 to meet the needs of the times, one result being that the univ. from then onward received an annual Treasury grant.

**CONSTITUTION.** The central policy-forming and executive body in the univ. is the *hebdomadal council*, comprising the chancellor (a non-resident member, elected for life by convocation), the vice-chancellor (a coll. head nominated by the chancellor annually, usually holding office for 2 yrs., and *de facto* chairman of the hebdomadal council), the immediate ex-vice-chancellor (for one yr. after the expiry of his term of office) or one of the pro-vice-chancellors who has not held the office of vice-chancellor, the 2 proctors (disciplinary officers, elected annually by colls. in rotation), the representative of the women's colls. and 18 members elected by congregation (*see below*).

Other considerable powers and responsibilities are held by the *general board of the facs.*, which comprises the vice-chancellor, the proctors, the representative of the women's colls. and reps. of the hebdomadal council, the curators of the univ. chest, and the several facs.—theol., law, med., literæ humaniores, mod. hist., English lang. & lit., mediæv. & mod. langs., oriental studies, physical scis. (incl. maths.), biological scis., soc. studies, anthropol. & geog., music, agric. & for., and psychol. studies—and which exercises a general supervision over the teaching (other than coll. teaching), res. and exams. of the univ. (executive organization being in the hands of the several bds. of the facs., the bd. in each case

being composed in part of *ex-officio* and in part of elected members); and by the *curators of the univ. chest*, who are responsible for the detailed financial administration of the univ. and for the preparation of accounts and estimates.

The hebdomadal council submits proposals for the amendment of the statutes (which govern the working of the univ.), and measures for the conduct of business beyond the scope of its own authority, to the *congregation of the univ.*, which can adopt, reject, or amend them; congregation comprises mainly the teaching and sr. admin. staff of the univ. Legislation carried by the vote of less than two-thirds of the members of congregation present and voting is referred to, and can be carried or postponed or rejected by *convocation*, a larger body comprising all holders of the MA and certain sr. degrees who have their names on the univ. books; convocation also confers degrees by dipl. and hon. degrees, and authorizes the affixing of the univ. seal when necessary.

The COLLEGES are corporate bodies distinct from the univ.; they manage their own property, elect their own officers, have their own bldgs. and facilities (usually including residential accomm., dining-hall, chapel, library, sr. and jr. common-rooms, and playing-fields) and control the selection and admission of their own undergraduates; and the proctors have no power within their walls. They are, however, subject to the univ. statutes in certain connexions, notably presentation and audit of accounts, contributions for univ. purposes and elections to professorial fellowships: and all persons who are members of colls. are also members of the univ. and so come under the univ.'s rules. Teaching is carried out partly by way of lectures and classes held by univ. profs., readers, lectrs. and demrs., partly by way of individual tuition given by coll. tutors and lectrs. (most of whom hold, in addition to their coll. posts, pt.-time univ. lectureships and are referred to on pp. 1131-1144 as Common University Fund lectrs.).

**ST. CATHERINE'S COLLEGE.** A new coll., St. Catherine's College, will be opened in 1962 (master: A. L. C. Bullock, MA; bursar: D. J. Wenden, MC, MA). St. Catherine's Society will then disappear and a new non-resident postgrad. society called Linacre House will be opened.

**INCOME.** The income of the univ. (not incl. the income of the separate colls.) for the year 1958-59 was £3,444,745, made up as follows: endowments, £370,306 (10.7 per cent.); parliamentary grants, £2,265,309 (65.8 per cent.); fees, £284,709 (8.3 per cent.); payments for res., £379,228 (11 per cent.); contributions from colleges, £118,263 (3.4 per cent.); other income, £26,930 (0.8 per cent.).

**FACULTIES AND DEANS.** For facs. *see under* 'Constitution', *above*. There are no deans of facs.; enquiries about admission should be addressed to the head clerk, Univ. Registry, Oxford.

**UNIVERSITY BUILDINGS.** Most of the individual colls. and halls of the univ. are centrally situated, together with the major bldgs. serving the univ. as a whole (e.g. Bodleian library, Sheldonian theatre, Ashmolean museum, exam. schools); sci. depts. and labs. are mostly congregated in the science area, which is adjacent to the univ. parks and N. of central Oxford.

Bldgs. completed in recent yrs. incl. provision for physiol., for., bot., agric., geol., mineral., inorg. & org. chem., human anat., metall., an extension of the Ashmolean museum, a gallery for casts, a hist. fac. libr., and Nuffield Coll.

Devels. taking place at present or in the near future incl. bldgs. for the depts. of engin., biochem., pharmacol., phys., and geol., an oriental inst., an Engl. fac. libr., a law libr., an inst. of stats., and a bldg. for the new coll., St. Catherine's Coll. (This does not incl. any reference to bldgs. which the colls. may be putting in hand.)

**LIBRARIES.** The principal library of the univ. is the Bodleian library (founded in 1602 by Sir Thomas Bodley), with its dependent libraries (Radcliffe sci. libr., Rhodes House libr., which deals with the hist. of the British Commonwealth and the U.S.A., and Indian Inst. libr.). It is entitled, under the Copyright Act, 1911, to a copy of every book published in Gt. Britain & Ireland, and now contains about 2,141,000 books and 50,000 MSS. Persons other than members of the univ. may be allowed to read in the libr. in certain circumstances at the discretion of the librarian. The *Visitors' Guide* (on sale at the libr.) gives a short hist. The chief books relating to it are: Macray, W. D., *Annals of the Bodleian Library* (Clar. Press, 1890, 35s.); Craster, Sir H. E. E., *History of the Bodleian Library, 1845-1945* (Clar. Press, 1952, 42s.); *The Bodleian Library Record* (3s. 6d. per number, obtainable from the librarian).

Two other important libraries are those of the Taylor Institution (about 160,000 books on mod. langs. & lit., incl. the chief philological, lit. and historical works in the principal European langs.) and the Ashmolean museum (about 83,000 books on classics, anc. hist., archæol., art and near eastern studies). In addition, there are some 46 depts. and fac. libraries containing altogether about 350,000 books of sp. interest to their particular students.

Apart from these univ. libraries, each coll. has its own library, use of which is normally restricted to members of the coll. Two libraries at All Souls Coll. (Codrington libr. of law and mod. hist. and Brand libr. of pol. econ. & sci.) are, however, open to any recommended member of the univ.

**LABORATORIES, ETC.** The univ. has labs. of inorg. chem., agric. (with field stn.), geol. and mineral., zool. and compar. anat., phys. (Clarendon lab.), engin., metall., physiol., biochem., human anat., pharmacol., org. chem. (Dyson Perrins lab.), phys. chem., for. (Imperial Forestry Inst.), bot., pathol., and computing, a res. lab.

for archæol. and the hist. of art, an observatory, and a botanic garden.

**MUSEUMS.** The *Ashmolean Museum* (tel.: 57522) (keeper—Sir Karl T. Parker, [Oriol], CBE, PhD Zür., MA, FBA), Beaumont St., contains one of the best collections of European and near eastern archæol. in the world, the univ.'s collection of coins, a fine collection of paintings, old master drawings, water-colours, Italian maiolica and bronzes, English silver, and other objects of appl. art. The *Museum of Eastern Art* contains the combined far eastern collections of the Ashmolean Museum and the Indian Inst., including a very extensive range of early and late Chinese porcelain, a fine collection of Chinese bronzes, and comprehensive ranges of Islamic pottery, Japanese craft-work and Gandharan sculpture.

The *Univ. Museum* (tel.: 57467), Parks Rd., contains the collections of the Hope dept. of zool. (entomol.), of the dept. of zool. & compar. anat., and of the dept. of geol. & mineral.

The *Pitt Rivers Museum* (tel.: 57467) (curator—T. K. Penniman, [Trin.], MA, FSA), Parks Rd., contains an anthropological collection and library illustrating prehistoric archæol. and the evolutionary hist. of material arts; the collection comprises notably armour, pottery, clothing, musical instruments, tools, magical objects and objects of various special arts and industries.

The *Museum of the Hist. of Sci.* (tel.: 43997) (curator—C. H. Josten, [Bras.], LLD Erlangen, MA), Broad St., illustrates the hist. of scientific studies, especially in Oxford, by contemp. instruments, portraits and books.

**TEACHING HOSPITALS.** Facilities for undergrad. and postgrad. teaching for the univ. are provided by the United Oxford Hosps., which comprise the Radcliffe Inf. and the Churchill and Osler Hosps., and by the regional hosp. bd. in the Littlemore, Warneford and Park Hosps. and in the Nuffield Orthopaedic Centre.

**FACILITIES OF SPECIAL INSTITUTIONS.** *Institute of Education*, 15 Norham Gdns. (tel.: 58631). Exists to promote co-operation between the univ., the 5 constituent members of the inst. (the dept. of educn., Culham Coll., Bletchley Park Coll., Newlands Park Coll. and Westminster Coll.), local educn. authorities and other educnl. agencies in the county borough of Oxford, the county of Oxfordshire and certain neighbouring areas. Dir.: A. D. C. Peterson, [Ball.], OBE, MA; sec.: M. M. Spencer, [Ball.], MA.

*Maison Française*, 72 Woodstock Rd. (tel.: 57666). An academic, social and cultural centre for French studies and students. Dir.: H. A. E. Fluchère, [Exeter], MA; asst. dir.: R. A. L. J. Hibon, [S. Ant.], MA.

*Institute of Commonwealth Studies*. Establd. by statute of the univ. in 1945. The inst. has a library, a seminar room, tutors' and res. officers' rooms and offices at 10 Keble Rd. (tel.: 57541), not far from Rhodes House and Queen Elizabeth House. The inst. is governed by the cttee. for



commonwealth studies of the univ. Dir. : Mrs. E. M. Chilver, [Som.], MA. Sec. to the cttee. : Mrs. Mary Holdsworth, [S. Hug.], MA.

*Queen Elizabeth House*, Black Hall, St. Giles (tel. : 59000). Establd. in the hope of making possible a new approach to the major problems affecting the oversea territories for which H.M. govt. in the U.K. is responsible and other countries which share their problems. Warden : L. C. Wilcher, [Ball.], CBE, BLitt MA.

The following instns. are approved by the univ. for the purpose of providing instructn. for students for certain dipl. open to non-members of the univ. (see p. 1166) :

*Ruskin School of Drawing and of Fine Art*, Ashmolean Museum (tel. : 55744). Provides a course of trg. for the cert. in fine art. Ruskin Master of Drawing : P. F. Horton, [New], MA.

*Department of Social and Administrative Studies*, Barnett House, Wellington Sq. (tel. : 55050). Provides courses of trg. for the dipl. in pub. & soc. admin. Sec. : L. J. Barnes, [Univ.], MC, MA.

*Ruskin College*, Walton St. (tel. : 55920). A residential coll. for adult educn., offering courses in soc. scis. and trade union studies ; provides courses of trg. for the dipls. in pub. & soc. admin., in econ., and in econ. & pol. sci. Certain scholps. are available (particulars from the sec.).

*Catholic Workers' College*, Boars Hill, Oxford (tel. : 35458). Admits adult working-class students under certain conditions ; provides courses of trg. for the dipls. in pub. & soc. admin., in econ., and in econ. & pol. sci. Certain scholps. are available (particulars from the principal).

**UNIVERSITY ENTRANCE REQUIREMENTS.** It should be particularly noted that although information about the univ. entrance requirements may be obtained by students both at home and overseas from the head clerk, Univ. Registry, Oxford, no person may become a member of the univ. without first securing admission to a coll. or society ; and that applicn. for admission to the univ. must first of all be addressed to the appropriate officer of the society to which admission is desired. Full details may be obtained from Appendix II to this volume. Advice on *special* problems affecting overseas students may be sought from the actg. adviser to overseas students, Univ. Registry, Oxford.

Incorporation into the univ. is open under certain conditions to undergrads. and grads. of the univs. of Cambridge and Dublin ; incorporation means admission to the status (and degrees if applicable) corresponding at Oxford to that held at Cambridge or Dublin. Notice of intention to incorporate as an undergrad. must be sent to the registrar through the head of a coll., hall, or society. Incorporation as a grad. (for which adequate reasons must be provided, e.g. obtaining of an educnl. post in the univ., or intention to pursue a definite course of study in the univ.) is limited to holders of the BA, MA, BD, or DD of Cambridge or Dublin, of the LLB, LL.D, MB, MD, MChir of Cambridge, and, under certain conditions, of the

ScD, MusD, LittD, and PhD of Cambridge or Dublin.

**NON-MEMBERS OF THE UNIVERSITY** may be admitted to lectures given in a univ. bldg. (but not to classes, seminars, or informal instructn.) on certain conditions and on payment of £10 a term (or, for lectures in one fac. only, £6 a term) to the sec. of the Univ. Chest, Old Clarendon Building, Broad St., Oxford.

Persons qualified for sr. status (see Appendix II), or other grads. who may in sp. circumstances be approved, who wish to study at the univ. for not more than one yr. and who do not intend to read for a degree may apply to the appropriate fac. bd. for admission as *recognized students*. Certain fac. bds. will admit to this status only those who are members of the teaching staff of a univ. Such students are not members of the univ., but are placed under a dir. of studies and are entitled to attend lectures in univ. bldgs., to use the univ. libraries and to work in any univ. dept. or instn. subject to the agreement of the hd. of that dept. or instn. Applicn. forms for this status may be obtained from the sec. of faculties, University Registry, Oxford. The applicn. must be accompanied by evidence of degrees previously obtained, a statement of the proposed subject of study and a cert. from a prof. or hd. of a dept. of the Univ. of Oxford supporting the applicn. Admission fee of £5, and terminal fees of from £10 to £23, are payable.

**RHODES SCHOLARSHIPS** were founded in 1902 under the will of the late Cecil John Rhodes. Their value is £750 a yr. each. They are tenable for 2 yrs. in the first instance at Oxford Univ. ; and for a third, if it is eminently in the interests of a scholar's immediate studies and future career, either in Oxford or, in rare cases, elsewhere, but not in the country of the scholar's origin.

In his will, Mr. Rhodes expressed the wish that 'in the election of a student to a scholarship regard shall be had to (1) his literary and scholastic attainments ; (2) his fondness for and success in manly outdoor sports, such as cricket, football, and the like ; (3) his qualities of manhood, truth, courage, devotion to duty, sympathy for and protection of the weak, kindness, unselfishness, and fellowship ; and (4) his exhibition during school-days of moral force of character, and of instincts to lead and to take an interest in his school-mates'. The conditions of the competition in each country or community are fixed from time to time by the trustees.

A min. of 36 scholps. is assigned annually to the British Commonwealth as follows : Quebec (2) ; Ontario (2) ; the other provinces of Canada (1 each) ; the states of the Australian commonwealth (1 each) ; the dominion of New Zealand (2) ; in South Africa, the province of Natal (1), the Transvaal (1), the Orange Free State (1), Cape Province (1), S.A. College Sch. in Cape Town (1), the Diocesan Coll. Sch., Rondebosch (1), the Paul Roos Gymnasium, Stellenbosch (1), St. Andrew's Coll., Grahamstown (1) and the

Eastern Province (1 in alternate yrs.); Rhodesia (not more than 3); Jamaica (1); Bermuda (1); Malta (1); India (1); and Pakistan (1). Scholps. for Ceylon, Ghana, Malaya, Nigeria and the W. Indies were inaugurated in 1959 beginning with Ceylon, with elections following in successive yrs. in the other 4 constituencies.

32 scholps. are assigned annually to the U.S.A. —4 to each of 8 districts, awarded among candidates sent forward from each state, of which there are normally six in the district. *The American Oxonian*, the official magazine of the Alumni Asscn. of American Rhodes Scholars, is published quarterly.

Candidates for Rhodes scholps. must be between 19 and 25 yrs. of age and unmarried. They must be citizens of the country from which they come, usually with 5 yrs.' domicile, and except in a few sp. cases must have at least 2 yrs.' standing at a regular degree-granting coll. or univ.

Since the scheme was inaugurated, 3367 Rhodes Scholars have been elected. In the year 1959-60, 162 Rhodes scholars were in residence, 92 from the British Commonwealth and 70 from the U.S.A.

*Sec. to the Rhodes Trustees and Warden of Rhodes House, Oxford*—E. T. Williams, CB, CBE, DSO, MA, FRHistS (tel.: 55745; telegrams: Rhotrust, Oxford). *Local secs.*: U.S.A.—Dr. Courtney Smith, President, Swarthmore Coll., Pennsylvania; *Canada*—The Hon. D. R. Michener, QC, MP, 5 Rosedale Rd., Toronto, 5; *Australia*—Sir George W. Paton, Vice-Chancellor, Univ. of Melbourne, Parkville, N.2, Vic.; *South Africa*—A. H. Gie, Permanent Buildings, 8 Darling St., Cape Town; *Rhodesia*—C. P. J. Lewis, Messrs. Scanlen & Holderness, 59 Manica Rd., Salisbury; *New Zealand*—E. G. Kedgley, Univ. of New Zealand, Wellington; *Jamaica*—H. Wynter, Univ. Coll. of W. Indies, Jamaica; *Bermuda*—H. C. Butterfield, Bank of N.C. Butterfield & Son, Ltd., Bermuda; *Malta*—Dr. J. A. Manché, Vice-Chancellor & Rector Magnificus, Royal Univ. of Malta; *India*—Rev. W. Jarvis, St. Stephen's Coll., Delhi, 8; *Pakistan*—Mr. Justice J. Orcheson, CBE, 20 Punjab Club, Lahore, West Pakistan; *Ceylon*—P. H. G. Gibbs, 7 Prince Street Fort, Colombo, 1; *Ghana*—M. Dowuona, MBE, Registrar, Univ. Coll., Legon, Accra; *Malaya*—W. G. T. Miller, c/o Australian High Commission, 44 Ampang Rd., Kuala Lumpur.

**FIRST DEGREES.** BA—3 yrs., or, in certain cases, 4 yrs. This is the first degree in both arts and sci. subjs. (The BSc degree at Oxford is a postgrad. degree—see 'Higher Degrees', below.)

A candidate for the degree of BA must reside at the univ. as a matriculated member for 9 terms, and must be successful both in the first public exam. and in the second public exam.

The subjs. of the first public exam. are: honour classical moderations; honour maths. moderations; honour sci. moderations; honour theol. moderations; honour biochem. moderations; law moderations; prelim. nat. sci.;

prelim. geog.; prelim. mod. langs.; prelim. mod. hist.; prelim. English; prelim. oriental studies; prelim. classical (Greek & Latin) langs.; prelim. theol.; prelim. philos., pol. & econ.; prelim. music; and prelim. psychol., philos. & physiol. Every candidate for the degree of BA must be successful in one of these subjs.; in honour moderations the lists of successful candidates are divided into classes.

The subjs. of the second public exam. consist of a pass sch. and a number of honour schs. Every candidate for a pass BA degree must be successful in 3 of a large variety of subjs., one of the 3 being a lang. other than English. Every candidate for an hon. BA degree must not have exceeded a certain number of terms from matric. and must have obtained hon. in one of the following: literæ humaniores (philos. & anc. hist.); maths.; nat. sci. (phys., chem., physiol., zool., bot., geol., biochem., metall., or engin.); jurispr.; mod. hist.; theol.; oriental studies (Sanskrit, Arabic, Hebrew, Persian, Egyptian or Chinese); Engl. lang. & lit.; mod. langs. (French, German, Italian, Spanish, Russian, mediæv. & mod. Greek, or Portuguese); philos., pol., and econ.; geog.; agric.; for.; psychol., philos. & physiol.; and music. The lists of successful candidates in hon. exams. are divided into 4, or in some cases 3, classes.

'Transfer course.' Under arrangements made with Imperial Chemical Industries Ltd., it is possible for boys who have studied mainly arts subjs. at sch., but who feel that their main interest may after all be in sci., to spend a yr. in London doing an intensive course in chem., maths. and phys. before coming to Oxford. At the end of the course they can decide whether to start reading for a degree in sci. or whether to return to their original subj. Further information about this 'transfer course' may be obtained from the student's coll.

Under certain conditions, grads. of other univs. may be admitted to the status of 'senior student' and obtain exemption from the first public exam., as well as remission of 3 terms of the necessary residence (see Appendix II).

**BM BCh**—min. 6 yrs. This is the first degree awarded by the univ. in med., though (with very few exceptions) it may not be awarded to persons who have not first taken the BA degree, which will normally have been obtained after the first 3 yrs. by gaining hon. in certain of the subjs. being studied concurrently for the BM. The last 3 yrs. of the course are devoted to clin. studies, and may be spent either in the Oxford clin. sch. or in an approved clin. sch. elsewhere. Further information from the sec. of the Med. Sch., Osler House, 43 Woodstock Rd., Oxford.

**HIGHER DEGREES.** MA—open only to Oxford BAs, and awarded without further exam. after 7 yrs. from matric. on payment of certain fees.

**BPhil**—min. 1 yr.'s study. This degree is granted after an exam. in philos. or Greek and Latin langs. & lit. or pol. or econ. or European

hist. or Commonwealth & American hist. of the same type as that in a final honour sch., but is open only to persons who either have previously obtained 1st or 2nd class hon. in certain prescribed honour schs. at Oxford, or are grads. of Oxford or of another univ. who have received leave of the appropriate fac. bd. Courses of instructn. in the subjs. of the exams. are provided. A thesis may be offered in addition to the written work. Residence for 6 terms is required.

**BSc and BLitt**—min. 1 yr.'s study. These degrees are granted upon the satisfactory completion of an approved course of sp. study or res., pursued under supervision and for the most part at Oxford, and of at least 6 terms' residence. Applicn. to enter upon such a course may be made by any person who produces sufficient evidence of his ability and either is a member of the univ. who has passed the exams. for the degree of BA, or has taken an approved degree at an approved univ., or is held by the fac. bd. concerned to be fully qualified to engage in res., or (for the BLitt only) has obtained an Oxford dipl. with distinction. Applicn. must in all cases be made to the sec. of faculties through an officer of the society to which the candidate belongs or desires to belong. A candidate for the BLitt must first undergo a probationary period of trg. in res. methods and then do a sp. piece of res. work and write a thesis, and may be required to pass a written exam. For the BSc, which is confined to the study of med., maths., nat. sci., anthropol., geog., agric., for. and psychol., no probationary period is prescribed.

**BMus**—min. 1 yr. This degree is open only to those who have been admitted to the degree of BA with 1st or 2nd class hon. in music. Candidates must pass a written exam. and submit a musical exercise for approval.

**DPhil**—min. 2 yrs. (except that for a candidate who is a BPhil the min. is 1 yr.). This is a higher res. degree in letters or sci. presupposing prelim. trg. in res., or outstanding ability, and requiring that the candidate's work shall result in 'an original contribution to knowledge deserving publication'. It is usually required that the applicant should either have obtained the Oxford degree of BLitt or BSc or have served an apprenticeship in res. approximately equal in value to that implied by those degrees. A grad. of another univ. may be admitted if he can produce evidence of special fitness in a manner satisfactory to the bd. of the fac. concerned.

**BCL**—2 yrs. The exam. is open either to BAs of the univ. or, under certain conditions, to grads. of other univs. The subjs. are Roman & Engl. law, together with 2 of the following sp. subjs.: mod. jurisp., condictiones, evidence, criminal law & penology, pub. internat. law, Roman-Dutch law, legal hist., admin. law. Courses of instructn. in the subjs. of the exam. are provided.

**BD**—2 yrs. This degree is open to candidates over 21 yrs. of age who have passed a qualifying exam. in Christian theol., pursued a course of study therein, and submitted a thesis of sufficient merit in some branch of the subj. No candidate

may present a thesis until he has passed the qualifying exam., which is open to Oxford MAs, to persons who have, not less than 5 terms previously, passed all exams. for the Oxford BA, and, under certain conditions, to grads. of other univs. 1st or 2nd class hon. in the final honour sch. of theol. exempts from the qualifying exam.

**Other Higher Degrees.** The following are open only to Oxford grads. of many years' standing. **DLitt and DSc**—awarded for published work constituting an original contribution to the advancement of learning or science respectively. **DMus**—awarded for a major musical work or works of outstanding merit. **MCh**—candidates must pass a written exam. on the principles and practice of surg. and must submit a thesis on an approved subj. connected with surg. **DM**—awarded on a thesis, or published work, on an approved subj. connected with med. **DCL**—awarded for published work forming a substantial contribution to legal learning. **DD**—awarded on a thesis, or published work, in some branch of Christian theol.

**HONORARY DEGREES.** The following may be conferred as honorary degrees: MA, DSc, DLitt, DMus, DCL, DD.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS AND CERTIFICATES.** The period of study is one yr. or a min. of one yr. unless otherwise stated in the following lists, which also indicate the source from which particulars may be obtained.

*Dipls. confined to members of the univ.:* agric. econ. (dir., Agric. Econ. Res. Inst., Parks Rd., Oxford); classical or European archaeol. (sec. to cttee. for archaeol., Ashmolean Museum, Oxford); hist. of art (sec. to cttee. for fine arts, c/o Univ. Registry, Oxford); hist. & philos. of sci. (sec. to cttee. for hist. & philos. of sci., c/o Univ. Registry, Oxford); Celtic studies (normally 2 yrs.), law, Slavonic studies, stats., theol. (sec. of faculties, Univ. Registry, Oxford). The cert. in stats. (sec. of faculties, Univ. Registry, Oxford) is also confined to members of the univ.

*Dipls. not confined to members of the univ.:* anthropol. (curator, Pitt Rivers Museum, Oxford); educn. (dir., Dept. of Educn., 15 Norham Gardens, Oxford; for vacation course, see below); econ., econ. & pol. sci., pub. & soc. admin. (Dept. of Social & Admin. Studies, Barnett House, Oxford); for. (prof. of for., Imperial Forestry Inst., Oxford); compar. philol. (prof. of compar. philol., Worcester Coll., Oxford).

The certs. in physical anthropol. and in cultural anthropol. (curator, Pitt Rivers Museum, Oxford), and in fine art (normally 4 years, Ruskin Master of Drawing, Ashmolean museum) are also not confined to members of the univ.

**POSTGRADUATE COURSES NOT LEADING TO A QUALIFICATION** are not provided.

**RESEARCH.** There are facilities for postgrad. res. in most fields of study in the univ.; some information may be found above under *Higher Degrees, Diplomas, Certificates, etc., Libraries, Laboratories, Museums.* Full particulars are published in the

booklet 'Facilities for Advanced Study and Research', available from the head clerk, Univ. Registry, Oxford, price 1s. (post paid).

Some details of recent res. activities are given in the annual reports of various univ. depts. publ. in the *Univ. Gazette* from time to time.

**STUDY LEAVE.** The visitatorial bd. is empowered, subject in certain cases to the approval of congregation, to grant sabbatical leave for one term in respect of every 6 completed terms of service.

**FEES.** Details of fees payable by students vary considerably from coll. to coll., and according to the subject studied and to whether the student is living in coll. or lodgings. The student's average total expenditure (including personal expenditure) for the 24 weeks of residence is, at the time of writing (Sept. 1960), and subject to the variations mentioned and to changes made from time to time in the various items of expenditure, about £430 for an arts course or £470 for a sci. course. Further particulars may be found in the *Handbook to the Univ. of Oxford* (see 'Publications', below).

**ACADEMIC YEAR.** The academic year comprises 3 terms each of 8 weeks, with vacations of 6 weeks each at Christmas and Easter and of 16 (or sometimes 17) in the summer. Terms for 1961-62: Oct. 15-Dec. 9; Jan. 21-March 17; April 29-June 23.

**ADULT EDUCATION** (see also 'Teaching Staff', above). The Delegacy for Extra-Mural Studies is concerned with the promotion of the liberal studies of adults, through classes and courses, principally in Oxfordshire, Berkshire and Buckinghamshire, N. Staffordshire, Kent and E. Sussex. In N. Staffordshire the Univ. Coll. of N. Staffs. is associated with Oxford in the promotion and administration of extra-mural work. In all areas the delegacy co-operates with local educn. authorities, with the W.E.A. and with other voluntary organizations. The work is carried on through (a) 3 yr. tutorial classes; (b) preparatory tutorial classes, of 1 yr.'s duration; (c) univ. sessional classes; (d) univ. extension lecture courses; (e) residential summer schs., including vac. courses for overseas grad. students; (f) shorter residential courses; and (g) courses of comparable standard for members of H.M. forces. The warden of Wedgwood Memorial Coll., Barlaston, N. Staffordshire, is one of the delegacy's extra-mural tutors. The delegacy co-operates also with the Y.M.C.A. residential coll. at Kingsgate, Kent. The delegacy has full-time tutors and lectrs. resident in the areas covered by the univ.'s extra-mural activities. On the recommendation of the delegacy, adult students may be exempted from the univ. normal entrance requirements.

**Address:** Rewley House, Wellington Sq., Oxford (tel.: 57203).

See also 'Ruskin College' and 'Catholic Workers' College' (p. 1164).

**VACATION COURSES.** Courses are held by the dept. of educn. (15 Norham Gardens; tel.: 58631) usually in July and August, either as short courses for sp. groups, or as refresher courses for teachers of experience, suitable also as an introduction to the more general study of educn. questions (open to men and women).

A summer school for young business executives is also held, originating in the intention to provide a course for business executives aged 27-33 marked out by their firms as likely to reach sr. managerial positions. The univ. appts. cttee. (see below) is responsible to the univ. for the scheme (but not for the contents of the courses nor for the method of teaching).

Several vacation courses are held by the delegacy for extra-mural studies (see above). These include (a) a summer sch. mainly for W.E.A. students, and (b) a 6-week summer sch. for overseas and British students (grad. or sr. undergrad.) in some aspect of English hist. and lit.

**PRINCIPAL OPEN AWARDS.** The only awards offered by the univ. to students wishing to read for a 1st degree are the Violet Vaughan Morgan scholp. in English lit., the Squire scholps. in theol. and the Davis scholp. in Chinese; these are tenable at any coll. but do not of themselves carry admission to a coll.; numerous entrance awards are, however, offered by the colls. themselves. Details of all these awards are published annually in June in 2 sp. scholp. numbers (one for men and one for women) of the *University Gazette*, obtainable from the Univ. Press Depot, 116 High St., Oxford.

**POSTGRADUATE AWARDS** open to grads. of other univs., see p. 825.

**APPOINTMENTS COMMITTEE.** The cttee. deals with appts. of all kinds, and has reps. and correspondents in all colls. and co-opted members from industry, etc. For staff, see 'Admin. and Other Staff', above. **Address:** 41 St. Giles, Oxford. **Telegrams:** Appointments, Oxford. **Tel.:** 59295.

In 1959, 1054 permanent appts. were obtained, incl.: govt., 62; educn., 381; comm. and industry, 515; misc., 96. In the same year 61 temp. appts. were obtained.

**GRADUATE ASSOCIATIONS.** The Oxford Soc., which is open to all members of the univ., was founded in 1932 with the object of establishing a corporate fellowship of Oxford men and women. It issues twice yrly. a magazine (*Oxford*, 1s. 6d.) giving news of events and developments in the univ. and the colls., has a widespread branch organization which enables local members to meet each other, makes grants to young grads. and undergrads. in need and to bodies (such as the Oxford Preservation Trust) which are concerned with matters of common interest to members, organizes tours of industry for the benefit of undergrads. who intend to make their careers in industry or comm. **Sec.:** Mrs. Daphne M. M. Lennie, BA, 18 Museum Rd., Oxford (tel.: Oxford 59891).

Halifax House was established in 1950 as a hostel, club and social centre for grad. students, sr. members of the univ. engaged in res., teaching or admin. in the univ., and visitors from overseas temporarily in Oxford for advanced study. Warden: Janet G. Anderson, Halifax House, 6 & 7 South Parks Rd., Oxford (tel.: Oxford 598981).

**STUDENT RESIDENCES.** Students are accommodated either in the colls. or in lodgings which the students themselves find. Each lodging must be approved by the univ., which maintains a lodgings delegacy which helps students to find accomm. Sec.: A. W. Davies, [Magd.], MA, 18 Keble Rd., Oxford (tel.: Oxford 57900).

**STAFF RESIDENCES.** Colls. normally provide accomm. (either in or out of coll.) for some members of their staffs. In addition, the univ. lets accomm., as available, to members of its staff.

**UNIVERSITY MILITARY AND AIR FORMATIONS.** The Oxford univ. officers trg. corps (with which is included a women's royal army corps sub-unit) and the Oxford univ. air squadron provide trg. mainly for students wishing to take up permanent commissions in the army or the air force or for those who have completed their national service and wish to continue trg. The H.Q. of each is

in Manor Rd., Oxford (tel.: army—Oxford 42488; air force—Oxford 44634).

The general supervision of all military trg. in the univ. is under the control of the delegacy for military instructn. (consisting of the vice-chancellor, the proctors, 5 officers of the univ. units, the Chichele prof. of the hist. of war, a person apptd. by the army council, a person apptd. by the air council, and 3 members of convocation). The delegacy also supervises the exam. in military hist., which is part of the pass sch.

There is no naval formation in the univ.

**STUDENT HEALTH SERVICE.** There is no comprehensive health service administered by the univ. Most (if not all) colls., however, have arrangements with a doctor for the treatment of members of the coll. and with a nurse to attend at stated times for treatment of minor ailments. In addition, a mass-radiography scheme is organized for the benefit of all members and staff of the univ.

**STUDENTS' REPRESENTATIVE COUNCIL.** There is no students' rep. council for the univ. Within each coll., however, there is an informal student organization concerned with matters (other than academic) of common interest to undergrad. members of the coll.

#### DEPARTMENTAL TELEPHONE NUMBERS (Oxford exchange in each case):

Agrarian Affairs, Inst. of	43256	Geography	41044	Nuffield Dept. of Plastic	
Agricultural Economics,		Geology	55855	Surgery	64841
Inst. for Res. in	57775	(Prof.)	55792	Nuffield Dept. of Surgery	49801
Agricultural Field Stn.	47359	Halifax House	598981	Nuffield Inst. for Med. Res.	49621
(Field Lab.)	47368	History of Art (Prof.)	57262	Observatory	59878
Agriculture	57245	History Fac. Library	43395	Officers Training Corps	42488
Air Squadron	44034	Hist. of Sci., Museum of	43997	Ornithology, Field (E. Grey	
Appointments Cttee.	59295	Hope Dept. of Entomology	57527	Inst. of)	47826
Archæol. Res. Lab.	55211	Human Anatomy	58686	Oxford & Cambridge	
Archæol., European (Prof.)	58850	Indian Inst.	43714	Schools Exam. Bd.	43519
Ashmolean Museum	57522	Inorganic Chem. Lab.	57387	Oxford Society	59345
Barnett Library	55935	Land Agent	57212	Parks, Curators of	59880
Biochemistry	59214	Local Exams. Offices	48647	Pathol., Sir Wm. Dunn	
Biometry Unit	58682	Lodgings, Delegacy of	57900	Sch. of	57321
Bodleian Library	44675	Maison Française	57666	Pharmacology	57002
New Library	47935	Marshal and Police	42026	Physical Chemical Lab.	57536
Botanical Garden	42737	Mathematical Inst.	55464	Physiology	57451
Botany	57857	Medical Sch.	41021	Pitt Rivers Museum	57497
Bureau of Animal Popula-		Medicine, Regius Prof. of	55207	Proctors' Office	42026
tion	44261	Metallurgy	57442	Queen Elizabeth House	59000
Chest Office	48491	Microbiol. Unit, Biochem-		Radcliffe Science Library	55004
Clarendon Lab.	59291	istry Dept.	55740	Registrar & Sec. of Facs.	48491
Commonwealth Studies,		Mineralogy	55855	Rhodes House	55745
Inst. of	57541	Museum, Univ.	57467	Rhodes Trust	57163
Computing Lab.	57855	Music, Fac. of	47069	Roman Empire, Archæology	
Crystallography	57542	Nuffield Dept. of		of (Prof.)	58850
Dyson Perrins Lab.		Anæsthetics	49891	Ruskin Sch. of Drawing	55744
(Organic Chemistry)	574231	Nuffield Dept. of Clinical		Social Anthropol., Inst. of	55971
(Prof.)	57809	Biochemistry	49891	Social Medicine	57243
Education	58631	Nuffield Dept. of Medicine	49891	Social & Admin. Studies	
Education, Inst. of	58641	& Gynæcology	49891	Dept.	58637
Engineering Science	57501	Nuffield Dept. of Pathology	48996	Statistics, Inst. of	43221
Entomology	57527	Orthopaedic Surgery	64811	Surveying	57816
Ethnology	57467	Nuffield Dept. of Pathology	49891	Surveyor's Office	41654
Examination Schools	41449	& Bacteriology		Taylor Institution	55059
Exper. Psychol., Inst. of	55080			University Press:	
Extra-Mural Delegacy	57203			(Printing)	57565
Far Eastern Library	59355			(Publishing)	57457
Forestry (Imperial Forestry				(Showroom)	42913
Inst.)	57891			Zoology & Compar. Anat.	55278
(Prof.)	55757				

**STUDENTS' UNION.** The Oxford Union Soc. is open to all male members of the univ. In addition to functioning as a debating soc. it has a lending library, restaurant and rooms for social activities. Its premises are in St. Michael's St., Oxford (tel. : Oxford 41353).

**THE OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD** examines or inspects and reports on the work of schools which provide educn. of the highest grade. It holds exams. in summer and autumn and awards a General Cert. of Educn., which qualifies the holder, under certain conditions, for entrance to univs. and exempts from the prelim. exams. of various professional bodies, etc. Its exams. are held at schools in the British Isles, the Middle East, the West Indies, British Guiana, Natal and Rhodesia. The bd. publishes *Regulations* (2s. 6d. post free from the Cambridge Univ. Press—for addresses, see below), lists of successful candidates and papers of the G.C.E. exam. Oxford sec. : G. J. R. Potter, [Ch. Ch.], OBE, MA, 74 High St. (tel. : 43549).

**THE OXFORD DELEGACY OF LOCAL EXAMINATIONS** holds exams. and awards a General Cert. of Educn., which qualifies the holder, under certain conditions, for entrance to univs. Its exams. are held in summer and autumn at centres in Gt. Britain, N. Ireland, Malta and certain other overseas centres. The delegacy publishes *Regulations* (2s. post free from the sec.). Candidates for the exams. need not be in attendance at any educnl. institution, but except under certain conditions may not enter below a certain age limit. Sec. : C. W. Stokes, [Jes.], MA, 12 Merton St. (tel. : 48647).

**PUBLICATIONS.** *General Information* pamphlet (free), giving information on method of applicn., admission requirements, entrance scholps., expenses, exams., degrees, dipls. and certs.; *Facilities for Advanced Study and Research* pamphlet (1s., post paid), giving details of dipls. and higher degrees open to grads. of other univs., are obtainable from the head clerk, Univ. Registry, Oxford.

*Oxford Univ. Calendar* (about Jan., 21s. net) includes lists of univ. officers, bds. and ctees.; teaching staff; institutions; fellowships, scholps. and prizes; members of colls., halls and socs.; and class and honour lists from 1951. (Earlier honours are listed in the *Historical Register* (o/p.) and in the *Supplements* to it for 1901-30 (7s. 6d. net) and 1931-50 (10s. 6d. net).) *Handbook to the Univ. of Oxford* (about June, 15s. net) describes

the univ.'s hist., archit., constitution, courses of study, res. facilities, libraries, labs., museums, tutorial system, coll. life, sports, etc., with some information on degrees, dipls., certs., etc. *Exam. Statutes* (Sept., 5s., by post 5s. 10d.). *Statuta et Decreta Universitatis Oxoniensis* (Oct., 18s. net). *Pocket Diary* for academic yr. (Oct., 7s. 4d., by post 7s. 7d.; with pencil, 1s. 10d. extra). *Resident Members* with addresses (Oct., 8s. 6d., by post 9s.). *Univ. Gazette* (annual sub. £1 : 1s. post free). All the above are obtainable from Oxford Univ. Press, Press Rd., Neasden, London, N.W.10.

Among other sources of information about the univ. are : A. à Wood, *History of the Univ. of Oxford*, 3 vols., 1792-96; A. à Wood, *Athene Oxonienses* (with *Fasti*), ed. by P. Bliss, 4 vols., 1813-20; J. Foster, *Alumni Oxonienses, 1550-1886*, 8 vols., 1887-92; *The Colleges of Oxford*, ed. by A. Clark, 1891; C. Headlam, *The Story of Oxford, 1907*; Sir C. Mallet, *History of the Univ. of Oxford*, 3 vols., 1924-27; C. R. L. Fletcher, *A Handy Guide to Oxford* (1926); F. P. Barnard & T. Shepard, *Arms and Blazons of the Colleges of Oxford, 1929*; *The Government of Oxford* (O.U.P., 1931); L. H. D. Buxton & S. Gibson, *Oxford Univ. Ceremonies* (1935); *Victoria County History of Oxford*, vol. III (1954, £4 : 4s.); D. R. Venables & R. E. Clifford, *Academic Dress of the Univ. of Oxford* (1957, 5s. 6d.).

**UNIVERSITY PRESS.** (For staff, see 'Admin. and Other Staff', above.) The univ. press is a dept. of the univ. controlled, through its sec., by a bd. consisting of the vice-chancellor, proctors, the representative of the women's colls., and 10 delegates apptd. from members of convocation. Its headquarters are at Oxford, in the Clarendon Press bldg., where are also the publishing dept. responsible for learned books, and the printing works. Books produced at Oxford are distributed by the London publisher and manager, who himself publishes for the univ. other classes of less learned books. In addition to these depts., and a paper-mill at Wolvercote, Oxford, the press also owns and controls branches overseas, for the production of books of local interest as well as the sale of those produced in England. The press publishes a *General Catalogue* (5s.).

Addresses of publishing depts. in England : Oxford : sec. to the delegates, Clarendon Press, Oxford (tel. : Oxford 57457); London : London publisher and manager, Oxford Univ. Press, Amen House, London, E.C.4. (tel. : London, City 7701); and of printer to the univ. : Univ. Press, Oxford (tel. : Oxford 57565).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Pres. T. Heuss, 8000 DM. p.a. for res. fellowship; residue of estate of C. A. Foster for endowment of lectureship; various indust. firms, over £1,140,000 for new St. Catherine's Coll., £75,000 from Wolfson

Fdn. for library of new St. Catherine's Coll.; Pilgrim Trust, £10,000 for new law library; Mullard Co., £25,000 for extension to Clarendon lab.; Wellcome Trustees, £11,500 for res. in pathol.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. approaching completion* : extension to Dyson Perrins lab., extension to phys. chem. dept.

**NEW DEPARTMENTS AND CHAIRS.** Chairs : inorg. chem., exper. phys.

**RETIREMENTS.** Very Rev. Dr. J. Lowe (dean of Christ Church) ; N. R. Murphy (principal of Hertford Coll.) ; H. H. Dubs (prof. of Chinese) ; J. H. Burn (prof. of pharmacol.) ; J. Boyd (Taylor prof. of German lang. & lit.) ; J. R. R. Tolkien (Merton prof. of Engl. lang. & lit.) ; H. H. Price (Wykeham prof. of logic) ; Sir Harry G. Champion (prof. of for.).

**RESIGNATION.** Prof. D. G. Champernowne (stats.).

**DEATHS.** Sir Herbert Craster (formerly Bodley's librarian) ; H. M. Margoliouth (formerly sec. of facs.) ; G. D. H. Cole (formerly Chichele prof. of soc. & pol. theory) ; R. M. McElroy (formerly H. V. Harmsworth prof. of American hist.) ; Dr. G. R. Y. Radcliffe (emeritus fellow of New Coll.) ; Dom P. J. McCann (formerly master of St. Benet's Hall) ; Christine M. Burrows (formerly principal of St. Hilda's & St. Anne's colls.) ; C. Jenkins (regius prof. of eccles. hist.).

**HONORARY DEGREES.** *DD*—Very Rev. Dr. J. Lowe, dean of Christ Church. *DCL*—Rt. Hon. R. G. Menzies, prime minister of Australia ; Rt. Hon. Lord Somervell of Harrow. *DLitt*—Eliza M. Butler, formerly Schröder prof. of German, Camb. ; P. Geyl, formerly prof. of mod. hist., Utrecht ; A. B. Emde ; P. Maas ; F. J. E. Raby. *DSc*—Sir William G. Penney, dir., Atomic Weapons Res. Establishment, Aldermaston ; G. W. Beadle, prof. of biol., Cal. Tech. ; M. Calvin, prof. of chem., Calif. ; G. B. Kistia-

kowsky, prof. of chem., Harv. ; A. Lwoff ; L. Néel. *DMus*—Dame Margot Fonteyn de Arias.

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . .	7585	—
Women . .	1222	—

Total 8807

Distribution by Faculties. *Agric.*, 90 ; *arts*, 6344 ; *engin.*, 150 ; *med.*, 293 ; *sci.*, 1930. Total : 8807.

Included in the figures above are :—

Postgraduate students, 1016.

New admissions, 2469.

Students from other countries, 959. (Countries from which largest numbers came : U.S.A., 248 ; Canada, 74 ; Australia, 64 ; S. Africa, 63 ; India, 60 ; Pakistan, 36 ; New Zealand, 29).

**DEGREES AWARDED (1958-59).** BA, 1851 and 26 incorporations ; MA, 1397 and 15 incorporations ; BLitt, 62 ; BPhil, 17 ; DPhil, 158 and 1 incorporation ; BD, 1 ; DD, 1 and 1 incorporation ; BCL, 10 ; DCL, 1 ; BM BCh, 64 ; DM, 11 ; BMus, 2 ; BSc, 38 ; DSc, 3 and 1 incorporation.

**DIPLOMAS AWARDED (1958-59).** Agric. econ., 13 ; anthropol., 9 ; compar. philol., 2 ; econ., 2 ; econ. & pol. sci., 43 ; educn., 73 ; for., 3 ; pub. & soc. admin., 18 ; Slavonic studies, 2 ; statistics, 4 ; theol., 15.

**CERTIFICATES AWARDED (1958-59).** Anthropol., 2 ; fine art, 11 ; pub. admin., 3 ; statistics, 6 ; trg. for soc. work, 5.

# UNIVERSITY OF READING\*

Founded 1926; previously established as University Extension College (1892),  
Reading College (1898) and University College, Reading (1902)

Postal Address: Reading, Berkshire, England

Telephone (Registrar): Reading 81771

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. the LORD BRIDGES, GCB, GCVO, MC, MA Hon. DCL *Oxon.*, Hon. LLD  
*Brist., Lond. & Camb.*, Hon. DLitt, FRs

VICE-CHANCELLOR—Sir JOHN WOLFENDEN, CBE, MA *Oxon.*

PRESIDENT OF THE COUNCIL—Sir GEORGE R. MOWBRAY, Bt., KBE, MA *Oxon.*

TREASURER—Major L. M. E. DENT, DSO

REGISTRAR—J. F. JOHNSON, BA

LIBRARIAN—D. T. RICHNELL, BA *Camb.*, FLA

BURSAR—E. H. CARPENTER, FCA

## TEACHING STAFF

[†=Part-Time]

### Agricultural Botany

Bunting, A. H., MSc *Rand*, DPhil *Oxon.* Prof.  
Waldie, J. S. L., BSc *Edin.* †Lectr.  
Snow, D., PhD *Glas.*, BSc(Agric) Lectr.  
Owen, H., BSc(Agric) PhD Lectr.  
Cartwright, Phyllis M., BSc PhD *Leeds* Lectr.  
Jones, J. K., BSc PhD *Manc.* Lectr.  
McNeill, J., BSc *Edin.* Lectr.  
Snaydon, R. W., BSc *Wales* Asst. Lectr.  
Drennan, D. S. H., BSc *Glas.* Asst. Lectr.

### Agricultural Economics

Thomas, E., CBE, BLitt *Oxon.*, BSc *Wales*  
Provincial Agric. Economist, Prof.  
Bisset, G. B., BSc *Aberd.*, MS *Corn.*  
Sr. Res. Economist (with title of Sr.  
Lectr.)  
Bennett, L. G., PhD Sr. Res. Economist  
Tuck, R. H., MA *Oxon.* Lectr.  
Mills, F. D., BA *Manc.*, MS *Corn.* Lectr.  
Jewell, C. A., BSc(Agric) Lectr.  
8 Res. Economists, 1 Res. Asst.

### Agriculture

Duckham, A. N., CBE, MA *Camb.* Prof.  
Fox, S., MA *Camb.* Lectr.  
Dominy, J. N.  
(Surveying & Bldg. Construcn.) Lectr.  
Pearce, J., PhD Lectr.  
Gibb, J. A. C., MA *Camb.*, MSc *Durh.*  
(Farm Mech.) Lectr.  
Morris, T. R., BSc Lectr.  
Morgan, K. E., BSc *Wales* (Farm Mech.) Lectr.

Lloyd, D. H., BSc *Wales* Lectr.  
Tayler, R. S., BSc(Agric) *Lond.* Lectr.  
Harris, P. M., BSc *Leeds* Asst. Lectr.  
Allen, D. M., BSc. Asst. Lectr.

### Art (School of Art)

Betts, J. A. Prof.  
Finney, H. (Drawing & Painting) Lectr.  
Ormrod, F. (Design) Lectr.  
Davies, T. Barry (Art Educn.) Lectr.  
Redman, H. V. Lectr.  
Twyman, M. L., BA (Typog., etc.) Asst. Lectr.  
Kellaway, M. H., MA *Camb.*  
(Sculpture) †Sessl. Lectr.  
Dilworth, N. (Sculpture) †Sessl. Lectr.  
Montagu, Jennifer, BA *Oxon.*, PhD *Lond.*  
(Hist. of Art) †Sessl. Lectr.

### Botany, see also Agric. Bot.

Harris, T. M., MA ScD *Camb.*, BSc *Lond.*,  
FRS Prof.  
Maxted, Mrs. Barbara, BSc PhD *Lond.* †Lectr.  
Hora, F. B., BA DPhil *Oxon.* Lectr.  
Watson, E. V., BSc PhD *Edin.* Lectr.  
Warren Wilson, J., MA DPhil *Oxon.* Lectr.

### Chemistry, see also N.I.R.D. (p. 1173) and Physiol. Chem.

Guggenheim, E. A., MA ScD *Camb.*, FRS, Prof.  
FRIC  
Maxted, D. R., BSc *Lond.* Sr. Lectr.  
Holt, P. F., DIC, BSc PhD *Lond.*, FRIC Lectr.  
Halberstadt, E. S., BSc PhD *Lond.* Lectr.

\* Member of the Association of Universities of the British Commonwealth



Prue, J. E., MA DPhil <i>Oxon.</i>	Lectr.	Frood, A. M., MA <i>Liv.</i>	Lectr.
McGlashan, M. L., MSc <i>N.Z.</i> , PhD	Lectr.	Parry, M., BSc <i>Lond.</i> , MSc	Lectr.
Bryce-Smith, D., DSc <i>Lond.</i>	Lectr.	Lucas, G. R., BA <i>Liv.</i> , MA	Lectr.
Mills, I. M., DPhil <i>Oxon.</i> , BSc	Lectr.	Wood, P. D., MA <i>Wales</i> , PhD	Lectr.
Mills, J., MD <i>Manc.</i>	Hon. Res. Fellow	Hardy, J. R., BA <i>Camb.</i>	Asst. Lectr.

**Classics**

Cormack, J. M. R., MA <i>Camb. &amp; Aberd.</i>	Prof.	Allen, P., MA <i>Camb.</i> , BSc PhD	Prof.
Williams, R. D., MA <i>Camb.</i>	Sr. Lectr.	Walder, Phoebe S., BSc <i>Lond. &amp; R'dg.</i>	Lectr.
Creed, J. L., MA <i>Camb.</i>	Lectr.	Sibly, T. C. F., MA <i>Camb.</i> , BSc	Lectr.
Wardman, A. E., MA <i>Camb.</i>	Lectr.	Rose, G. N., DFC, BSc	Lectr.
Robertson, F., MA <i>Aberd.</i> , BA <i>Camb.</i>	Lectr.	Goldring, R., BSc PhD <i>Brist.</i>	Lectr.
Landels, J. G., MA <i>Aberd. &amp; Camb.</i>	Lectr.	Butcher, N. E., BSc <i>Sheff.</i>	Lectr.
Ure, Mrs. Annie D., BA <i>Lond.</i>	(Gk. Archæol.) Hon. Res. Fellow	Tarlo, L. B., BSc <i>Sheff.</i> , PhD <i>Lond.</i>	†Lectr.
		2 Res. Fellows	

**Dairying**

Crossley, E. L., BSc <i>Lond.</i> , FRIC	Prof.
Rothwell, J., BSc(Dairying)	Lectr.
Benjamin, Margaret I. W., BSc(Dairying)	Lectr.
MacKenzie, P. K.	Sessl. Lectr.

**Education**

Dobinson, C. H., MA <i>Oxon.</i> , BSc <i>Lond.</i>	Prof., Dir., Inst. of Educn.
Mallinson, V., MA <i>Leeds</i>	Reader
Armstrong, H., MA <i>Lond.</i> , MSc <i>Leeds</i> , MED <i>Durh.</i>	Lectr.
Murray, Clara A., BSc <i>Lond.</i>	Lectr.
Fleming, Mary A., MA	Lectr.
Bentley, A., BA	Lectr.
Smart, K. F., MA <i>Oxon.</i>	Lectr.
Goldman, R. J., BA BD <i>Manc.</i> , MA <i>Chic. &amp; Birm.</i>	Lectr.
Rolls, M. J., BSc	Lectr.
Vowles, V. C. D., MA <i>Oxon.</i>	Lectr.

**English**

Gordon, D. J., MA <i>Edin.</i> , PhD <i>Camb.</i> , FRHistS	Prof.
Young, Jean I., MA PhD <i>Camb.</i>	Reader
Clemoes, P. A. M., BA <i>Lond.</i> , PhD <i>Camb.</i>	Lectr.
Creighton, T. R. M., MA <i>Camb.</i>	†Lectr.
Brockbank, J. P., MA PhD <i>Camb.</i>	Lectr.
Fletcher, I.	Lectr.
Henisch, Mrs. Bridget A., BA <i>Camb.</i> , MA <i>Lond.</i>	Lectr.
Morris, B. R., MA <i>Oxon.</i>	Asst. Lectr.

**French**

Lehmann, A. G., MA DPhil <i>Oxon.</i>	Prof.
Bowen, R., DUStras., BA	Sr. Lectr.
Dale, Emily H., BA PhD	Lectr.
Allix, Georgette	Lectr.
Holland, M. C. J., BA <i>Lond.</i>	Lectr.
Goodwin, Pamela J. L., BA <i>Lond.</i>	†Lectr.
Strickland, G. R., MA <i>Camb.</i>	Asst. Lectr.
Redfern, W. D., BA <i>Camb.</i>	Asst. Lectr.
Hunt, Mrs. Antoinette M., LèsL	Lectrice

**Geography**

Miller, A. A., DSc <i>Lond.</i> , Fellow <i>Univ.</i> <i>Coll., Lond.</i>	Prof.
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**Geology**

Allen, P., MA <i>Camb.</i> , BSc PhD	Prof.
Walder, Phoebe S., BSc <i>Lond. &amp; R'dg.</i>	Lectr.
Sibly, T. C. F., MA <i>Camb.</i> , BSc	Lectr.
Rose, G. N., DFC, BSc	Lectr.
Goldring, R., BSc PhD <i>Brist.</i>	Lectr.
Butcher, N. E., BSc <i>Sheff.</i>	Lectr.
Tarlo, L. B., BSc <i>Sheff.</i> , PhD <i>Lond.</i>	†Lectr.
2 Res. Fellows	

**German**

Pickering, F. P., BA <i>Leeds</i> , PhD <i>Bres.</i>	Prof.
Hamburger, M. P. L., MA <i>Oxon.</i>	Reader
Ievers, S. E., BA <i>Dub.</i>	Lectr.
Reilly, Pamela M. A., MA PhD <i>N.U.I.</i>	Lectr.
Menhennet, A., BA <i>Oxon.</i>	Asst. Lectr.
Werlich, E.	Lektor

**History, Modern**

Aspinall, A., MA DLitt <i>Manc.</i> , FRHistS	Prof.
Slade, C. F., BA PhD, FRHistS	Sr. Lectr.
Dodwell, Barbara, MA <i>Lond.</i> , FRHistS	Lectr.
Smith, E. A., MA <i>Camb.</i> , FRHistS	Lectr.
Lambert, M. D., MA <i>Oxon.</i>	Asst. Lectr.

**Horticulture**

Heath, O. V. S., DIC, DSc <i>Lond.</i> , FRS	Prof.
Barnwell, R., BSc(Hortic)	Lectr.
Prue, Mrs. Daphne, BSc(Hortic) <i>Lond.</i> , MS <i>Calif.</i> , PhD	Lectr.
Harris, Elspeth M., MS <i>Corn.</i> , BSc(Hortic)	Lectr.
Harris, G. P., BSc <i>Lond.</i> , PhD <i>Manc.</i>	Lectr.
Case, M. W., BSc(Hort) <i>Lond.</i>	Asst. Lectr.

**Italian**

Meneghello, L., DottinFil <i>Padua</i>	•
	Lectr.-in-Charge (Sr. Lectr.)
Martindale, Ursula F., MA <i>Camb.</i>	†Lectr.
Momigliano, Anna L., BA <i>Oxon.</i>	Asst. Lectr.

**Mathematics**

Rado, R., PhD <i>Camb.</i> , DrPhil <i>Berl.</i>	Prof.
White, P., MA PhD <i>Camb.</i>	Lectr.
Rees, Mary R., MSc <i>Liv.</i> , PhD <i>Belf.</i>	Lectr.
Kreisel, G., BA <i>Camb.</i>	(on leave) Lectr.
Dresel, L. A. G., MA PhD <i>Camb.</i>	Lectr.
Parsons, D. H., MA DPhil <i>Oxon.</i>	Lectr.
Edwards, R. E., BSc <i>Manc.</i> , PhD <i>Lond.</i>	Lectr.
Milner, E. C., MSc <i>Lond.</i>	Lectr.
Osborne, M. R., BA <i>Melb.</i>	Asst. Lectr.

**Microbiology**

Knight, B. C. J. G., DSc <i>Lond.</i>	Prof.
Shattock, P. M. Frances, BSc <i>Edin.</i> , PhD	Lectr.
Rhodes, Muriel E., BSc <i>Lond.</i> , PhD	Lectr.

Zatman, L. J., BSc PhD *Lond.*  
 Chislett, Margaret E., PhD *Nott.*,  
     BSc(Dairying)  
 Keddie, R. M., BSc PhD *Edin.*  
 Charles, H. P., MA *Lond.*, PhD *Manc.*  
 Seaton, Mrs. Janet R., MSc *Lond.* Asst. Lectr.

**Music**

Woodham, R. E., BA DMus *Oxon.*, FRCO Prof.  
 Taylor, E., MA BMus *Oxon.* Lectr.  
 7 Teachers

**Philosophy**

Hodges, H. A., MA DPhil *Oxon.* Prof.  
 Parkinson, G. H. R., MA DPhil *Oxon.* Lectr.  
 Coulthard, Jean, BA *Wales* Lectr.

**Physics**, see also N.I.R.D., below

Ditchburn, R. W., BSc *Liv.*, MA PhD *Camb.* Prof.  
 Mitchell, E. W. J., MSc *Sheff.*, PhD *Brist.* Reader  
 Rymer, T. B., MA *Camb.*, PhD *Lond.*,  
     FIP Sr. Lectr.  
 Henisch, H. K., BSc PhD Lectr.  
 Robinson, K., BSc *Leeds*, PhD *Leeds &*  
     *Camb.* Lectr.  
 Fender, D. H., BSc PhD Lectr.  
 Power Steele, E. Joyce, BA MSc *Dub.* †Lectr.  
 Lidiard, A. B., MSc PhD *Lond.*  
     (Theoret. P.) Lectr.  
 Banbury, P. C., MA *Oxon.*, PhD Lectr.  
 Clark, C. D., BSc PhD Lectr.  
 Faulkner, E. A., BSc *Oxon.* Lectr.  
 Evans, B. L., BSc *Brist.*, PhD *Camb.* Lectr.  
 Öpik, U., BSc PhD *Belf.* (Theoret. P.) Lectr.  
 Tomlin, D. H., BSc PhD *Lond.* Res. Physicist  
 Bastin, J. A., BA *Oxon.*, PhD *Lond.* Res. Physicist  
 1 Res. Asst., 1 Res. Fellow

**Physiological Chemistry**

Tyler, C., DSc *Leeds*, FRIC Prof.  
 Grumbleby, F. H., BSc *Leeds*, PhD Sr. Lectr.  
 Wild, A., BSc *Leeds*, PhD Lectr.  
 Taylor, T. G., MA *Camb.*, PhD Lectr.  
 Hassall, K. A., BSc *Lond. & R'dg.*, PhD Lectr.  
 Moore, J. H., BSc *Wales*, PhD Lectr.  
 Balch, D. A., BSc(Agric) PhD Lectr.  
 Hill, R., BSc(Agric) PhD Lectr.  
 Payne, D., MA *Camb.* Lectr.  
 Stratmann, C. J., BSc PhD *Melb.* Lectr.  
 Lakin, A. L., BSc Asst. Lectr.  
 Woodward, J. D., BSc PhD *Birm.* Asst. Lectr.  
 Geake, F. H., MSc *Brist.* Hon. Res. Fellow

**Political Economy**

Campbell, P. W., MA *Oxon.* Prof.  
 Budden, E. S., MA DPhil *Oxon.* Sr. Lectr.  
 Carr, J. L., BSc(Econ) *Lond.* (on leave) Lectr.  
 Sainsbury, K. A. F., MA BPhil *Oxon.* Lectr.  
 Cahill, Moya K., LLB *Belf.* †Lectr.

Lectr.

**Psychology**

Vernon, Magdalen D., MA ScD *Camb.*,  
     FBP&S Prof.  
 Elithorn, A., MA MD *Camb.*, DPM *Lond.*,  
     MRCP (Psychopathol.) †Lectr.  
 Bruce, D. J., BA Lectr.  
 Crossman, E. R. F. W., MA *Camb.*,  
     PhD *Birm.* Lectr.  
 Wallace, G. K., BSc PhD *St.And.*  
     (Physiol. P.) Lectr.

**Veterinary Hygiene**

Male, N. P., BSc *Edin.* Lectr.

**Veterinary Science**

Barron, N. S., BSc *Lond.*, PhD Vet. Surgeon

**Zoology**

Graham, A., MA BSc *Edin.*, DSc *Lond.* Prof.  
 Fretter, Vera, PhD DSc *Lond.* Reader  
 Crichton, M. I., BSc *Edin.*, PhD Lectr.  
 Mann, K. H., BSc *Lond.*, PhD Lectr.  
 Williams, G., BSc Lectr.  
 Hardy, M. G., BA *Oxon.* Lectr.  
 Bryce, D., BSc *Manc.*, PhD *Sheff.* Asst. Lectr.  
 Johnson, Elizabeth (Mrs. Moore), BSc  
     PhD *Sheff.* Asst. Lectr.  
 White, Kathleen M., MSc PhD  
     Hon. Res. Fellow

**NATIONAL INSTITUTE FOR RESEARCH  
 IN DAIRYING**

(see also p. 1174)

Prof. R. G. Baskett, OBE, MSc, FRIC Dir.

**Bacteriology**

Cuthbert, W. A., MSc *Leeds* Head  
 Neave, F. K., BSA *Tor.*  
 Sharpe, M., Elisabeth, BSc *Lond.*, PhD  
 Garvie, Ellen I., BSc PhD *Lond.*  
 1 Hon. Res. Fellow, 11 Assts.

**Chemical Microbiology**

Berridge, N. J., DSc *Birm.* Head  
 Mabbitt, L. A., BSc *Lond.*, PhD *Edin.*  
 Cheeseman, G. C., BSc PhD  
 3 Assts.

**Chemistry**

Rowland, S. J., BSc(Agric) PhD, FRIC Head  
 Aschaffenburg, R., PhD *Cologne*  
 6 Assts.

**Dairy (Experimental)**

Chapman, Helen R. Head  
 2 Assts.

**Dairy Husbandry**

Foot, A. S., MSc Head  
 Braude, R., DSc  
 Dodd, F. H., BSc(Agric) PhD

Mitchell, K. G., BSc(Agric) PhD  
 Line, C., BSc(Agric)  
 Murdoch, J. C., BSc *Glas.*, PhD *Edin.*  
 8 Assts.

### Engineering

Hall, H. S., BSc(Agric) Head  
 Thiel, C. C., BSc(Agric) *W. Aust.*, PhD  
 Burton, H., BEng *Sheff.*, MSc  
 Suffolk, S. F., BSc *Lond.*  
 Hutchinson, J., BSc *Manc.*  
 Budd, R. T., BSc *Birm.*  
 Hoyle, J. B., MA *Camb.*  
 5 Assts.

### Feeding and Metabolism

Balch, C. C., BSc(Agric) PhD Head  
 Roy, J. H. B., MA *Camb.*, PhD  
 4 Assts.

### Nutrition

Kon, S. K., PhD *Warsaw*, DSc, FRIC Head  
 Henry, Kathleen M., BSc *Lond. & N.U.I.*,  
 PhD *Aberd.*, FRIC  
 Thompson, S. Y., DSc  
 Porter, J. W. G., MA PhD *Camb.*  
 Goodwin, Mrs. Marie E., PhD  
 Harrison, G. F.  
 Ford, J. E., BSc *Leeds*, PhD  
 Gregory, Margaret E., MSc *Manc.*, PhD

Fisher, L. R., BSc PhD *Lond.*  
 1 Hon. Res. Fellow, 1 Hon. Res. Asst.,  
 11 Assts.

### Physics

Blair, G. W. S., MA *Oxon.*, DSc *Lond.*,  
 FRIC, FIP Head  
 Glover, F. A., BSc *Lond.*  
 Prentice, J. H., BSc *Lond.*  
 Phipps, L. W., BSc *Lond.*  
 1 Asst.

### Physiology

Folley, S. J., DSc *Manc.*, FRS Head  
 Cowie, A. T., BSc *Edin.*, PhD  
 Benson, G. K., BSc *Liv.*, PhD  
 Pope, G. S., DPhil *Oxon.*, BSc  
 1 Hon. Res. Fellow, 6 Assts.

### Radiobiology

Glascok, R. F., BSc PhD *Lond.* Head  
 3 Assts.

### Statistics

Cox, C. P., MA *Oxon.* Head  
 1 Asst.

### UNIVERSITY EXTENSION

8 Tutors

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrars : A. A. H. Butters, MA *Oxon.* ;  
 H. E. Bell, MA *Sheff.* Accountant : W. G.  
 Lowe. Keeper, Museum of English Rural Life :  
 C. A. Jewell, BSc. Sec., Fac. of Agric. & Hortic. :  
 J. W. Bee, MA *Camb.* Sec., Fac. of Sci. : T. C. F.  
 Sibly, MA *Camb.*, BSc. Sec., Appts. Cttee. :  
 Mrs. Elizabeth Goodwin, MA *Oxon.* Sec., Inst.  
 of Educn. : W. B. Crouch, BA *Belf.* Asst.  
 Bursar : R. G. Eaton, BA *Oxon.* Buildings  
 Officer : A. Barrow. Physicist in charge of Radio  
 Tracer Unit & Univ. Radiation Protection Officer :  
 D. H. Tomlin, DIC, BSc PhD *Lond.*

WARDENS OF HALLS OF RESIDENCE. J. S. L.  
 Waldie, BSc *Edin.* (Wantage Hall) ; T. R. M.  
 Creighton, MA *Camb.* (St. Patrick's Hall) ; E. S.  
 Budden, MA DPhil *Oxon.* (Whiteknights Park  
 House) ; Ursula F. Martindale, MA *Camb.* (St.  
 Andrew's Hall) ; E. Joyce Power Steele, BA  
 MSc *Dub.* (Wessex Hall) ; Moya K. Cahill, LL.B.  
*Belf.* (St. George's Hall) ; Pamela J. L. Goodwin,  
 BA *Lond.* (Mansfield Hall) ; E. V. Watson, BSc  
 PhD *Edin.*, . . . . . (St. David's Hall).

## CONSTITUENT INSTITUTION

NATIONAL INSTITUTE FOR RESEARCH IN DAIRY-  
 ING, Shinfield, nr. Reading (tel. : Reading 83103),  
 establd. by Ministry of Agric. & Fisheries in 1912,  
 forms part of univ. (Dir.—Prof. R. G. Baskett,  
 OBE, MSc, FRIC). It is governed by a bd.

consisting of reps. of Ministries of Agric. and  
 Health, Royal Agric. Soc. of England, British  
 Dairy Farmers' Assocn., Nat. Farmers' Union,  
 etc. See also pp. 1173-1174.

## GENERAL INFORMATION

A univ. extension coll. was opened at Reading  
 in 1892 ; it was based upon the local Oxford Univ.  
 extension centre and the local schs. of sci. and art,  
 and derived its first impetus largely from Christ

Church, Oxford. In 1902 it established a claim  
 to a state grant as a univ. coll. In 1904 and 1905  
 it received endowments of land and money from  
 the Palmer family. Wantage Hall, endowed by

Lady Wantage, was built in 1908 as a residence for men students, the declared policy of the council being to make residence in a hall the rule and not the exception. An endowment fund of £200,000 was subscribed in 1911 by the benefactors already mentioned. The univ. was established by royal charter on March 17, 1926.

Various developments call for special notice. One is the establishment, in connexion with the coll. and univ., of the Natnl. Inst. for Res. in Dairying. Another is the bldg. and endowment of the library, the costs of which were defrayed by Mr. Alfred Palmer and members of his family; the bldg. constitutes a memorial to the late Rt. Hon. George William Palmer, one of the chief benefactors of the coll. Residential accomm. has been increased, and the univ. now has 7 halls of residence, 3 for men and 4 for women. Further additions are being planned.

The univ. has steadily grown. Because of the inadequacy of its present site, it acquired in 1947 the freehold of the Whiteknights park estate of nearly 300 acres of parkland (approx. one mile from centre of Reading), to which it is hoped ultimately to transfer the whole univ. At present 2 new bldgs. in the park are in use: the fac. of letters, opened in 1957 by H.M. the Queen, accompanied by H.R.H. the Duke of Edinburgh; and the dept. of phys., opened in March 1960 by Sir George Thomson and named the J. J. Thomson Physical Lab.

**CONSTITUTION.** The supreme governing body of the univ. is the court, presided over by the chancellor. The executive body is the council, which is composed of academic and lay members, and elects its own chairman. The senate, which consists of all profs. of the univ. and 3 elected members of the academic staff, regulates academic matters; the vice-chancellor is chairman. Facs. are controlled by their own bds., and schs. by their own cttees., subj. to the authority of senate and council.

**INCOME** (excl. Natl. Inst. for Res. in Dairying) (1958-59). Total income, £709,147 (Treasury grant, 73.8 per cent.; fees, 12.3 per cent.; grants from local authorities, 2.6 per cent.; other sources, 11.3 per cent.).

**FACULTIES AND DEANS.** *Agric. & hortic.*, Prof. C. Tyler (physiol. chem.); *letters*, Prof. A. G. Lehmann (French); *sci.*, Prof. A. Graham (zool.).

**SCHOOLS.** Art, music.

**LIBRARY**, 160,000 vols., incl. Overstone collection (7500 vols.) of books on pol. econ. (publd. before 1850), English and French thought during 18th cent., topography (especially Northamptonshire), and Cole libr. (8000 vols.) of early books on med. and on hist. of zool.; 25,000 pamphlets. 1300 periodicals received.

**MUSEUMS.** Zool., hist., archæol., English rural life.

**LABORATORIES, FARMS, ETC.** Bot., chem., geol., mech., microbiol., phys., psychol., zool. Fine art

studios. Sch. of music. Agric. machinery hall. 3 farms (400, 200 and 110 acres) and hort. stn. (80 acres).

**INSTITUTE OF EDUCATION.** Establd. in 1948; became a univ. inst. in 1955. *Constituent Institutions*: univ. dept. of educn.; univ. dept. of fine art; Bishop Otter Memorial Coll., Chichester; Easthampstead Park Coll.

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** BA—hons. courses in philos., psychol., classics, Greek, Latin, Engl., mod. hist., pol. econ., geog., maths., philos. & Engl. lit., philos. & German, Greek & Engl. lit., Latin & Engl. lit., econ. & psychol., econ. & soc. philos., music—3 yrs.; hons. courses in \*French, \*German, \*Italian, \*Italian & French, \*French & Italian, \*French & German, \*German & French, \*Latin & French, fine art—4 yrs. (\* incl. 1 yr. abroad). Gen. courses in 3 subjs.—3 yrs.; hons. may be awarded in final exam. (general).

BSc (fac. of sci.)—special courses in maths., phys., chem., bot., zool., geog., geol., microbiol., psychol.—1 yr. normally taken after gen. course (3 yrs.) in 3 of above subjs.; hons. may be obtained in either gen. or sp. course.

BSc (fac. of agric. & hortic.)—pass courses in agric., dairying, hortic.—3 yrs.; hons. courses in agric. sci., hortic. sci., agric., dairying, hortic., agric. bot., hortic. bot., agric. chem., agric. econ.—3 yrs. (4 yrs. if candidate not given total exemption from inter. exam.).

**HIGHER DEGREES.** MA, MSc (facs. of sci., agric. & hortic.)—2 yrs. from 1st degree; MAgSc (fac. of agric. & hortic.)—2 yrs.' course of instructn. in either agric. (in one of 5 sections), avian physiol. & nutrition, or agric. econ., award by exam. Courses begin in Oct. each yr.; PhD—3 yrs. from 1st degree (all facs.). All open to grads. of other univs. DLitt, DSc.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** 3 yrs.—fine art, landscape archit.; 1 yr.—advanced landscape archit., rural educn. (for serving teachers); and 1 yr. (postgrad.)—agric. (can be taken in 1 of 5 sections: animal husb., crop husb., poultry husb., farm management & orgn., farm mechanization, agric. econ., educn., technical phys.).

**RESEARCH.** Res. facilities available in all depts. of univ. A res. bd. administers funds entrusted to it for res. purposes, and issues an annual record and report, and publishes *Abstracts of Theses* annually.

**FEES.** *Annual composition fees* (covering registration, matric., tuition, exam. and graduation, but not students' union sub. and various minor fees). Bachelor's degrees: BA (other than music), £50; BA in music (incl. lessons on one instrument), £62; BSc (fac. of sci., fac. of agric. & hortic.), £66; BSc (agric. econ.), £60. Higher degrees: PhD, MSc (without lab. facilities), £30; PhD, MSc (with lab. facilities), £45 [addtnl. fees

for materials and apparatus may be charged in depts. of chem. and agric. chem.]; MA, £30. Dipls.: fine art, £50; art teacher's dipl., £60; educn. (postgrad.), £66; technical phys. (postgrad.), £60; landscape archit., £50; advanced landscape archit., £60; agric., hort., agric. chem., agric. econ. (all postgrad.), £66. Students' union sub. (compulsory), £6: 6s. p.a. Students from overseas may be required to pay a deposit of £25 on admission.

**EXPENSES.** Total average necessary expenses for academic yr. (excl. travelling, clothing and personal laundry) about £240, namely: (i) composition fee and cap and gown, £64 for a degree student; (ii) maintenance, incl. board and lodging in halls or lodgings and sanatorium fee, max. for 30 weeks about £158 for either man or woman student; (iii) personal, incl. sub. to union (£6: 6s. p.a.), and cost of books and stationery, widely variable, say £18 p.a.

**ACADEMIC YEAR.** Oct.-early July. 3 terms, each 10 weeks, first beginning on 1st Friday in Oct. Vacs. of 4 weeks at Christmas and 5 weeks at Easter.

**ADULT EDUCATION.** Tutorial classes held in conjunction with W.E.A.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**APPOINTMENTS COMMITTEE.** Provides information and advice about posts.

**GRADUATES' ASSOCIATION.** Old students' assocn. meets annually at univ. at Whitsun.

**STUDENT RESIDENCES.** All students following

full courses of day study, unless residing with parents or guardians, are ordinarily required to reside in a univ. hall of residence. (For wardens, see 'Admin. and Other Staff', above; for fees, see 'Expenses', above.) For men: Wantage Hall, Upper Redlands Rd., 127 students (tel.: R'dg. 81198); St. Patrick's Hall, Northcourt Ave., 294 students (tel.: R'dg. 81583); Whiteknights Park House, 46 students (tel.: R'dg. 81782). For women: St. Andrew's Hall, Redlands Rd., 142 students (tel.: R'dg. 82269); Wessex Hall, Redlands Rd., 104 students (tel.: R'dg. 82266); St. George's Hall, Elmhurst Rd., 83 students (tel.: R'dg. 81528); Mansfield Hall, Kendrick Rd., 120 students (tel.: R'dg. 81431). Full-time day students living in approved lodgings, or at home in or near Reading, are associated in St. David's Hall, a non-residential club.

**STUDENT ORGANIZATIONS.** Students' union and representative council.

**STUDENT ATHLETIC FACILITIES.** Gymnasium, athletic grounds; squash courts; rowing facilities.

**PUBLICATIONS.** *Calendar* (Sept.), 5s.; *University Gazette*; *General Prospectus* (illustrated); *Prospectuses* (degree and dipl. courses, fac. of letters, fac. of sci., fac. of agric. & hort., incl. landscape archit., educn., fine art, music). *Making a University: an Account of the University Movement at Reading*, by W. M. Childs (Dent, 1933). *A History of Whiteknights*, by E. Smith (Museum of Engl. Rural Life, Univ. of Reading, 1957).

## THE YEAR 1959

**NEW DEPARTMENTS AND CHAIRS.** Chair of pol. econ.

**RETIREMENTS.** H. Fraser (hort.); W. McCance (fine art); Dr. A. T. R. Mattick (Nat. Inst. for Res. in Dairying); Dorothea A. Paton (French); Lady Stenton (mod. hist.); Elsie J. Ternouth (maths.).

**RESIGNATIONS.** C. H. Blagburn (agric. econ.); M. A. Carroll (agric.); H. F. Clark (landscape archit.); Dr. L. D. Ettlinger (hist. of art), apptd. Durning Lawrence prof. of hist. of art, Univ. Coll., Lond.; B. Naylor (music); J. E. Reeve (maths.); Dr. H. Sixsmith (phys.); Mrs. Gwendoline M. Stephen (classics).

**DEATHS.** Sir Henry A. Benyon (life member of univ. court); Capt. R. W. Bradley (life member of univ. court); Emer. Prof. F. J. Cole (prof. of zool. 1907-39); Dr. A. Mary Kirkus (univ. librarian, 1943-59); Evelyn Matthews (lectr. in German from 1930 & hd. of dept. 1951-53); J. Sherborne (life member of univ. court); H. J. Yates (lectr. in drawing & painting, 1922-43).

## Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time*
Men . . .	877	59
Women . . .	627	75
Total . . .	1504	134

Distribution by Faculties (full-time). Agric., 368; arts, 748; sci., 388. Total: 1504.

*Included in the figures above are:—*

Postgraduate students, 269.

New admissions, 513.

Students from other countries, 98. (Countries from which largest numbers came: India, 9; Kenya, 5; Nigeria, 6; Iraq, 6; Germany, 10).

**DEGREES AWARDED (1958-59).** Agric. & hort.: BSc, 80; MSc, 4; PhD, 9; DSc, 1. Arts: BA, 122; MA, 5; PhD, 6. Sci.: BSc, 73; MSc, 2; PhD, 13. Total number of first degrees awarded, 275.

**DIPLOMAS AWARDED (1958-59).** Fine art, 3; landscape archit., 4; postgrad. agric., 5; educn., 65.

\* Includes evening students

# UNIVERSITY OF SHEFFIELD\*

Founded 1905 ; previously University College, established 1897 by amalgamation of Firth College (1879), Sheffield Medical School (1828), and Technical School (1886)

*Postal Address* : Sheffield, 10, England  
*Cables and Telegrams* : University Sheffield  
*Telephone* : Sheffield 27451

VISITOR—H.M. THE QUEEN

CHANCELLOR—The Rt. Hon. R. A. BUTLER, CH, MA *Camb.*, Hon. DCL *Oxon.*, Hon. LLD *Nott., Brist., St.And., Camb. & Sheff.*

PRO-CHANCELLORS—G. YOUNG, JP ; W. H. OLIVIER, TD, MA *Oxon.*, FCA

VICE-CHANCELLOR—J. M. WHITTAKER, MA *Camb.*, DSc *Edin.*, FRS

PRO-VICE-CHANCELLOR—Professor A. G. QUARRELL, DSc PhD *Lond.*, FIP, FIM

DEPUTY PRO-VICE-CHANCELLOR—Professor H. W. LAWTON, MA *Wales*, DU*Paris*

TREASURER—A. H. CONNELL, MA LLB

REGISTRAR—A. W. CHAPMAN, OBE, DSc *Lond.*, FRIC

BURSAR—R. M. URQUHART, MA *St. And.*

LIBRARIAN—J. E. TOLSON, BA *Leeds*, MA *Liv.*

## TEACHING STAFF

[†=Part-Time]

### Accountancy and Financial Administration

Whittington-Smith, C. A., LL.M., FCA  
 Sr. Lectr. in charge of Dept.  
 Hicks, I., BCom *Birm.* Lectr.  
 Lawson, G. H., MA(Econ) *Durh.* Lectr.  
 Downing, F., FCA (Auditing) †Lectr.  
 Tranter, A. V., BSc(Econ) PhD *Lond.*  
 (Taxation) †Lectr.

### Anatomy

Davies, F., DSc MD *Lond.*, FRCS  
 A. Jackson Prof.  
 Martin, B. F., BSc MD *Wales* Sr. Lectr.  
 King, T. S., MB ChB *Liv.* Sr. Lectr.  
 Harris, P. F., MB ChB *Brist.* Lectr.  
 Taylor, M., MB ChB Lectr.  
 Wilkinson, W. J. C., MB ChB Lectr.  
 Eccles, C. N. Demr.  
 Haigh, G., MB ChB Demr.  
 Sparling, C. F. I., MB ChB Demr.  
 Bradshaw, R. B., MB ChB Demr.  
 Bullock, J., MB ChB Demr.  
 Jones, C. D. P., MBE, MB BS *Lond.*,  
 FRCS (Appl. A.) †Lectr.  
 Wilkie, J., MSc MB ChB, FFR  
 (Radiological A.) †Hon. Lectr.

### Architecture

Needham, J., DipArch *Leeds*, MA, FRIBA Prof.  
 Page, J. K., BA *Camb.* (Bldg. Sci.) Prof.

Drought, A. B., BArch *Liv.*, MArch *Mass.*

Powis, G. J., MA Sr. Lectr.  
 Daykin, A., BA Lectr.  
 Wragg, R. B., MA Lectr.  
 Wilson, J. Lectr.  
 Jenkins, J. M., DipArch *Wales*, BA Lectr.  
 Jackson, V., BArch *Liv.* Lectr.  
 Heaf, E. B., DipArch *Liv.* Lectr.  
 Claridge, R. J. Lectr.  
 Clements, M. S., BEng  
 (Adv. Construcn.) †Lectr.

Wilby, C. B., BSc PhD *Leeds*  
 (Adv. Construcn.) †Lectr.  
 2 Instrs.

### Bacteriology, see Medicine

### Biblical History and Literature

Guilding, Aileen E., MA DPhil *Oxon.* Prof.  
 Payne, D. F., MA *Glas.*, BA Asst. Lectr.  
 Dunstone, A. S., MA BD *Oxon.* Asst. Lectr.

### Biochemistry, see Medicine

### Biology, see Bot. and Zool.

### Botany

Clapham, A. R., MA PhD *Camb.*, FRS Prof.  
 Boswell, J. G., DSc *Lond.*  
 (Plant Physiol.) Reader

\* Member of the Association of Universities of the British Commonwealth

Webster, J., BSc PhD <i>Lond.</i>	Sr. Lectr.	Davies, J. H., MA <i>Wales</i>	Lectr.
Booth, A., BSc PhD <i>Manc.</i>	Asst. Lectr.	McCormick, B. J., MA <i>Manc.</i> , BA	Lectr.
Anderson, D. J., BSc <i>Nott.</i> , PhD <i>Wales</i>	Asst. Lectr.	Bowden, P. J., BA PhD <i>Leeds</i>	Lectr.
Woolhouse, H. W., BSc <i>R'dg.</i>	Asst. Lectr.	Hawkins, E. K., BSc(Econ) <i>Lond.</i> , BPhil <i>Oxon.</i>	Lectr.

**Chemistry**

Haworth, R. D., BSc <i>Oxon.</i> , DSc PhD <i>Manc.</i> , FRS, FRIC	Firth Prof., Hd. of Dept.	Kempner, T., BSc(Econ) <i>Lond.</i>	Lectr.
Porter, G., BSc <i>Leeds</i> , PhD <i>Camb.</i> , FRIC, FRS	(Phys. C.) Prof.	Walkland, S. A., MA <i>St.And.</i> (Pol. Theory & Instns.)	Lectr.
Stevens, T. S., BSc <i>Glas.</i> , DPhil <i>Oxon.</i> (Org. C.) Reader		Mills, G., BA <i>Camb.</i> (Econ. Stats.)	Asst. Lectr.
Lawrence, A. S. C., ScD PhD <i>Camb.</i> , FRIC	(Colloid C.) Reader	Howe, M., BCom <i>Leeds</i>	Asst. Lectr.
Lamberton, A. H., BSc PhD <i>Glas.</i>	Sr. Lectr.	Hayward, J. E. S., BSc(Econ) PhD <i>Lond.</i> (Pol. Theory & Instns.)	Asst. Lectr.
Tyrrell, H. J. V., MA BSc <i>Oxon.</i>	Sr. Lectr.	Bates, R. W., BCom <i>Birm.</i> (Appl. Econ.)	Res. & Teaching Fellow
Wilkins, R. G., BSc PhD <i>Lond.</i>	Sr. Lectr.	Blackman, Janet M., BA <i>Lond.</i> (Econ. Hist.)	Douglas Knoop Res. Fellow
McKenna, J., MSc PhD <i>N.U.I.</i>	Sr. Lectr.		
Wyatt, P. A. H., BSc PhD <i>Wales</i>	Sr. Lectr.		
Leisten, J. H. A., BSc PhD <i>Lond.</i>	Lectr.		
Tedder, J. M., MA <i>Camb.</i> , PhD <i>Birm.</i>	Lectr.		
Smith, A. J., BSc PhD <i>Lond.</i>	Lectr.		
Finan, P. A., MSc <i>N.U.I.</i> , PhD <i>Belf.</i>	Lectr.		
Stevens, B., MA DPhil <i>Oxon.</i>	Lectr.		
Haslam, E., BSc PhD	Lectr.		
Murrell, J. N., BSc <i>Lond.</i> , PhD <i>Camb.</i>	Lectr.		
Kettle, S. F. A., BSc <i>Leeds</i> , PhD <i>Camb.</i>	Lectr.		
Perkins, P. G., BSc PhD <i>Nott.</i>	Lectr.		
Jones, D. N., BSc PhD <i>Wales</i>	Lectr.		
Dixon, R. N., BSc <i>Lond.</i> , PhD <i>Camb.</i>	Lectr.		
Jennings, K. R., BA DPhil <i>Oxon.</i>	Asst. Lectr.		
Brettell, R., BSc MA DPhil <i>Oxon.</i>	Asst. Lectr.		
Brocklehurst, B., BSc MA DPhil <i>Oxon.</i>	Asst. Lectr.		

Chilton, H. T. J., BSc PhD <i>Wales</i>	I.C.I. Res. Fellow
Tilney-Bassett, J. F., BA <i>Oxon.</i>	I.C.I. Res. Fellow
Atherton, N. M., BSc PhD <i>Birm.</i>	I.C.I. Res. Fellow
Stoyle, J. A. R., BSc <i>Belf.</i> , FRIC	Supt., Labs.

**Child Health, see Medicine****Classics**

Crossland, R. A., MA <i>Camb. &amp; Yale</i> (Greek) Prof.	
Laughton, E., MA <i>Oxon.</i> (Latin)	Firth Prof.
Hulton, A. O., MA <i>Oxon.</i>	Lectr.
Molyneux, J. H., MA <i>Camb.</i>	Lectr.
Boddington, Ann, BA <i>Oxon.</i>	Lectr.
Rankin, H. D., BA <i>Dub.</i>	Lectr.
Mosley, D. J., BA <i>Durh. &amp; Camb.</i>	Asst. Lectr.

**Dental Surgery, see below****Economics**

Gilbert, J. C., BCom <i>Lond.</i>	Prof., Hd. of Dept.
Hague, D. G., MCom <i>Birm.</i> (Appl. Econ.)	Newton Chambers Prof.
Pollard, S., BSc(Econ) PhD <i>Lond.</i>	Sr. Lectr.
Thornhill, W., MSc(Econ) <i>Lond.</i> (Pol. Theory & Instns.)	Sr. Lectr.

Davies, J. H., MA <i>Wales</i>	Lectr.
McCormick, B. J., MA <i>Manc.</i> , BA	Lectr.
Bowden, P. J., BA PhD <i>Leeds</i>	Lectr.
Hawkins, E. K., BSc(Econ) <i>Lond.</i> , BPhil <i>Oxon.</i>	Lectr.
Kempner, T., BSc(Econ) <i>Lond.</i>	Lectr.
Walkland, S. A., MA <i>St.And.</i> (Pol. Theory & Instns.)	Lectr.
Mills, G., BA <i>Camb.</i> (Econ. Stats.)	Asst. Lectr.
Howe, M., BCom <i>Leeds</i>	Asst. Lectr.
Hayward, J. E. S., BSc(Econ) PhD <i>Lond.</i> (Pol. Theory & Instns.)	Asst. Lectr.
Bates, R. W., BCom <i>Birm.</i> (Appl. Econ.)	Res. & Teaching Fellow
Blackman, Janet M., BA <i>Lond.</i> (Econ. Hist.)	Douglas Knoop Res. Fellow

**Education**

Armytage, W. H. G., MA <i>Camb.</i>	Prof.
Halloran, J. H., MA <i>Leeds</i>	Sr. Lectr.
Williams, Eirian M., BSc <i>Wales</i>	Lectr.
Brown, Nora M., MA <i>Camb.</i>	Lectr.
Jay, L. J., MA <i>Birm.</i>	Lectr.
Fowler, W. S., MA <i>Oxon.</i>	Lectr.
Austwick, K., MSc	Lectr.
Mowat, Dorothea M., BSc PhD <i>Edin.</i>	Lectr.
Batho, G. R., MA <i>Lond.</i>	Lectr.
Sharples, H., BA <i>Durh.</i>	Asst. Lectr.
7 Supervisors	

**Engineering, see below****English Language and Literature**

Empson, W., MA <i>Camb.</i>	(E. Lit.) Prof.
Wilson, R. M., MA <i>Leeds</i>	(E. Lang.) Prof.
Hamer, D., MC, MA <i>Liv.</i> , FSA	(E. Lit.) Reader
Berry, F., BA <i>Lond.</i>	(E. Lit.) Sr. Lectr.
Scott, F. S., MA MLitt <i>Camb.</i> (E. Lang.)	Sr. Lectr.
Roberts, M. A. M., MA <i>Camb.</i>	(E. Lit.) Lectr.
Mackerness, E. D., MA <i>Camb.</i> , PhD <i>Manc.</i>	(E. Lit.) Lectr.
Heywood, C., MA BLitt <i>Oxon.</i> , BA <i>Stell.</i> (E. Lit.)	Lectr.
Smith, Winifred M., MA <i>Durh.</i> (E. Lang.)	Asst. Lectr.
Roper, D. S., BA <i>Durh.</i>	(E. Lit.) Asst. Lectr.

**French**

Lawton, H. W., MA <i>Wales</i> , DU <i>Paris</i>	Prof.
Lyons, W. H., BA PhD <i>Dub.</i>	Lectr.
Shaw, Marjorie, BA <i>Lond.</i> , DU <i>Paris</i>	Lectr.
Blaess, Madeleine, BA <i>Leeds</i> , LèsL <i>Paris</i>	Lectr.
Francis, K. H., BA PhD <i>Lond.</i>	Lectr.
Collier, S. J., BA PhD <i>Leeds</i>	Lectr.
Short, J. P., BA <i>Dub.</i>	Lectr.
Juden, B. V., MA <i>Manc.</i>	Lectr.
Courtney, C. P., BA <i>Belf.</i>	Asst. Lectr.
Martin, G. I., LèsL <i>Paris</i>	Lecteur
Barnett, Janine	Lectrice
Martin, Odile, LèsL <i>Grenoble</i>	Lectrice

**Fuel Technology, see Engineering, below**

**Genetics**

Roper, J. A., BSc PhD	Prof.
Beardmore, J. A., BSc PhD	Lectr.
Blank, C. E., BSc PhD <i>Wales</i> (Med. G.)	Lectr.
Dunsford, F. I. N., PhD	
(Blood Groups) Hon. Lectr.	

**Geography**

Fisher, C. A., MA <i>Camb.</i>	Prof.
Garnett, Alice, BA PhD <i>Lond.</i>	Reader
Maxwell, I. S., MA <i>Camb.</i>	Sr. Lectr.
Hunt, A. J., BA <i>Lond.</i>	Sr. Lectr.
Savigear, R. A. G., BA <i>Lond.</i>	Lectr.
Sibbons, J. L. H., BA BSc <i>Oxon.</i>	Lectr.
Straw, A., BA <i>Nott.</i>	Lectr.
Lewis, G. M., MSc	Asst. Lectr.
Grigg, D. B., BA <i>Camb.</i>	Asst. Lectr.
Coates, B. E., BA <i>Leeds</i>	Jr. Res. Fellow
Hilling, D., BSc <i>Wales</i>	Jr. Res. Fellow

**Geology**

Moore, L. R., DSc PhD <i>Brist.</i> , FGS	Sorby Prof.
Wilkinson, P., BSc <i>Lond.</i> , FGS	Lectr.
Downie, C., BSc <i>Glas.</i> , PhD, FGS	Lectr.
Humphries, D. W., BSc PhD <i>Lond.</i> , FGS	Lectr.
Currall, A. E., MA DPhil <i>Oxon.</i> , FGS	Lectr.
Love, L. G., BSc	Lectr.
Brown, P. E., BSc PhD <i>Manc.</i> , FGS	Lectr.
Wagner, R. H., Geol Drs <i>Ley.</i>	Lectr.
Neves, R., BSc PhD	Asst. Lectr.
Mohr, P. A., BSc PhD <i>Manc.</i>	Res. Fellow

**German**

Mainland, W. F., MA <i>Edin.</i>	Prof.
Yuill, W. E., MA <i>Aberd. &amp; Lond.</i>	Lectr.
Northcott, K. J., MA <i>Lond.</i>	Lectr.
Kolisko, Gertrud, DrPhil <i>Vienna</i>	Lectr.
Bird, G. C., BA <i>Lond.</i>	Tutor

**Glass Technology, see Engineering, below****History**

Potter, G. R., MA PhD <i>Camb.</i> , FSA	(Mod. H.) Prof.
Hopper, R. J., BA <i>Wales</i> , PhD <i>Camb.</i> , FSA	(Anc. H.) Prof.
Lewis, N. B., MA PhD <i>Manc.</i>	(Mediæv. H.) Prof.
Tyler, J. E., MA <i>Oxon. &amp; Sheff.</i>	(Mod. H.) Reader
Haley, K. H. D., MA BLitt <i>Oxon.</i>	
(Mediæv. & Mod. H.)	Sr. Lectr.
Carr, W., BA <i>Birm.</i> , PhD	(Mediæv. & Mod. H.) Lectr.
Johnston, Edith M., MA PhD <i>St. And.</i>	(Mediæv. & Mod. H.) Lectr.
Boddington, Ann, BA <i>Oxon.</i>	(Anc. H.) Lectr.
Henderson, I., MA <i>Edin.</i>	(Mediæv. & Mod. H.) Asst. Lectr.
Mosley, D. J., BA <i>Durh. &amp; Camb.</i>	(Anc. H.) Asst. Lectr.

**Law**

Marshall, O. R., MA <i>Camb.</i> , PhD <i>Lond.</i>	Prof.
Wood, J. C., LL.M. <i>Manc.</i>	Sr. Lectr.

Fridman, G. H. L., BCL MA *Oxon.*,  
LL.M. *Adel.*

Patchett, K. W., LL.M. <i>Lond.</i>	Lectr.
Rideout, R. W., LL.B. PhD <i>Lond.</i>	Asst. Lectr.
Cook, T., BA <i>Camb.</i>	Asst. Lectr.
Battersby, G., BA <i>Oxon.</i>	Asst. Lectr.
Goode, M. A., LL.B	† Lectr.

**Mathematics**

Northcott, D. G., MA PhD <i>Camb.</i>	
	Town Trust Prof.
Allen, D. N. de G., MA <i>Oxon.</i>	(Appl. M.) Prof.
Davies, D. R., MSc PhD <i>Lond.</i>	(Appl. M.) Reader
Ruston, A. F., MA PhD <i>Camb.</i>	(Pure M.) Sr. Lectr.
Mirsky, L., MSc <i>Lond.</i> , PhD	(Pure M.) Sr. Lectr.
Cox, R. R. S., MA <i>Camb.</i>	(Appl. M.) Sr. Lectr.
Blundell, P. H., MA <i>Camb.</i>	(Appl. M.) Sr. Lectr. ; Dir., Electronic Computation Lab.
Burkill, H., MA <i>Camb.</i> , PhD	(Pure M.) Lectr.
Farahat, H. K., BSc PhD <i>Wales</i>	(Pure M.) Lectr.
Deas, H. D., MSc PhD <i>Belf.</i>	(Appl. M.) Lectr.
Wardle, S., BSc PhD <i>Lond.</i>	(Appl. M.) Lectr.
Bourne, D. E., BSc PhD	(Appl. M.) Lectr.
Chadwick, P., BSc <i>Manc.</i> , PhD <i>Camb.</i>	(Appl. M.) Lectr.
Becker, P. R., MA <i>Edin.</i>	(Appl. M.) Lectr.
Warren, F. W. G., BSc <i>Lond.</i>	(Appl. M.) Lectr.
Macdonald, I. D., MA <i>Aberd.</i>	(Pure M.) Asst. Lectr.
Knight, C. J., BA <i>Camb.</i>	(Pure M.) Asst. Lectr.
Burley, D. M., BSc PhD <i>Lond.</i>	(Appl. M.) Asst. Lectr.
Breach, D. R., MSc N.Z.	(Appl. M.) Asst. Lectr.
Abson, H., MA <i>Camb.</i> , BCom <i>Lond.</i> , MSc	(Appl. M.) Temp. Tutor
Douglas, A. J., BA <i>Oxon.</i>	Jr. Res. Fellow

**Medicine, see below****Metallurgy**

Quarrell, A. G., DSc PhD <i>Lond.</i> , FIP, FIM	Prof., Hd. of Dept.
Honeycombe, R. W. K., MSc <i>Melb.</i> , PhD <i>Camb.</i>	(Phys. M.) Prof.
Bilby, B. A., BA <i>Camb.</i> , PhD <i>Birm.</i>	(Theoret. M.) Reader
Maddocks, W. R., BSc <i>Wales</i> , PhD <i>Glas.</i>	(Production M.) Sr. Lectr.
Protheroe, H. T., BSc <i>Wales</i> , PhD	(Foundry M.) Sr. Lectr.
MacDougall, A. J., MMet, FIM	Sr. Lectr.
de Belin, G. A., MMet	Sr. Lectr.
Havenhand, D., BSc	Lectr.
Woodhead, J. H., BMet	Lectr.
Ward, R. G., MA PhD <i>Camb.</i>	Lectr.
Entwisle, A. R., MA PhD <i>Camb.</i>	(on leave) Lectr.
Argent, B. B., BMet PhD	Lectr.
Tegart, W. J. M., MSc <i>Melb.</i> , PhD	Lectr.



Haworth, C. W., BA DPhil *Oxon.* Lectr.  
 West, J. M., MA PhD *Camb.* Lectr.  
 Hume-Rothery, Prof. W., OBE, MA  
 DSc *Oxon.*, FRS Hon. Lectr.  
 1 Res. Asst.

**Microbiology**, see Medicine, below

**Mining**, see Engineering, below

### Music

Deas, J. S., MA MusBac *Edin.*, FTCL  
 James Rossiter Hoyle Prof.  
 Bullivant, R. F. T., MA BMus *Oxon.* Lectr.  
 Lord, P. J., MA *Camb.*, BMus *Manc.* &  
*Camb.* Lectr.  
 Linstead, G. F., DMus *Durh.*, FRCO,  
 FTCL †Asst. Lectr.

### Philosophy

Cousin, D. R., BA *Oxon.* Prof.  
 Glasgow, W. D., BA *Dub.* Lectr.  
 Mellor, W. W., BA BPhil *Oxon.* Lectr.

### Physics

Sucksmith, W., DSc *Leeds*, FRS, FIP Prof.  
 March, N. H., BSc PhD *Lond.*

(Theoret. P.) Reader  
 Kaiser, T. R., MSc *Melb.*, DSc *Manc.*,  
 DPhil *Oxon.* Sr. Lectr.

Tebble, R. S., BSc *Durh.*, PhD *Leeds*,  
 FIP Sr. Lectr.  
 Lee, E. W., BSc *Lond.*, PhD *Nott.* Sr. Lectr.  
 Crangle, J., BSc PhD Sr. Lectr.  
 Fiddes, J., MA BSc *Edin.* Lectr.

Gaunt, P., DPhil *Oxon.*, BSc Lectr.  
 Milne, J. G. C., MA *Camb.*, PhD *Birm.* Lectr.  
 Titman, J. M., BSc PhD *Durh.* Asst. Lectr.  
 Young, W. H., BSc Asst. Lectr.  
 Bishop, J. E. L., BA *Camb.*, MSc *Natal*  
 Asst. Lectr.

Williams, K. C., BSc *Lond.*, PhD *Leic.* Asst. Lectr.  
 Muirhead, F., BSc Jr. Res. Fellow  
 Smith, T. F., BSc Jr. Res. Fellow

### Physiology

Smyth, D. H., MD MSc *Belf.*, PhD *Lond.* Prof.  
 Pickles, V. R., MA MD *Camb.* Sr. Lectr.  
 Wiseman, G., MB BS *Lond.*, PhD Sr. Lectr.  
 Hervey, G. R., MA MB BChir *Camb.* Lectr.  
 Barry, R. J. C., BSc *Lond.*, PhD *S'ton.* Lectr.  
 Jervis, E. Lesly, BSc *Edin.* Lectr.  
 Newey, H., BSc PhD

J. G. Graves Med. Res. Fellow  
 Kershaw, T. G., MB ChB Asst. Lectr.  
 Salmon, H. A., MB ChB *Birm.* Asst. Lectr.  
 2 Res. Assts.

### Psychology

Kay, H., MA PhD *Camb.* Prof.  
 McKellar, T. P. H., MA N.Z., PhD *Lond.*,  
 FBP&S Sr. Lectr.

Pilkington, G. W., BA *Lond.* Lectr.  
 Moray, N., BA *Oxon.* Lectr.  
 Baker, H. C., MA *Liv.*, BSc *Lond.*  
 (Indust. Psychol.) Hon. Lectr.  
 Poppleton, Pamela, BA Hon. Tutor

### Refractories Technology

White, J., DSc PhD *Glas.*, FIM Dyson Prof.  
 Ford, W. F., BSc PhD Lectr.

### Sociological Studies

Kelsall, R. K., MA *Glas.* Prof.  
 Mann, P. H., BA *Leeds*, MA *Liv.*, PhD *Nott.* Lectr.  
 Girling, F. K., BA *Camb.*, DPhil *Oxon.* Lectr.  
 Ovens, Mrs. Kathleen R., BA *Lond.* Tutor  
 Jackson, J. A., BA(Soc) *Chic.*, MA *Lond.* Asst. Lectr.  
 1 Res. Asst.

### Spanish

Pierce, F. W., MA *Belf. & Dub.* Hughes Prof.  
 Ribbans, G. W., MA *Lond.* Lectr.  
 Heathcote, A. A., MA *Manc.* Asst. Lectr.  
 Inglefield, E. B., BA *Nott.* Asst. Lectr.  
 Moragas, F., DrOdont *Madrid* Asst.

### Statistics

Rubens, H., BSc PhD *Lond.*  
 United Steel Cos. Sr. Lectr.-in-Charge  
 Kerridge, D. F., BSc *S'ton.* Lectr.  
 Davies, Hilda M., BSc *Lond.* Tutor  
 1 Res. Asst.

### Zoology

Chester Jones, I., BSc PhD *Liv.* Prof.  
 Francis, E. T. B., BSc *Lond.*, PhD *R'dg.*  
 (Vertebrate Z.) Reader  
 Segrove, F., BSc PhD Sr. Lectr.  
 Ebling, F. J. G., MSc PhD *Brist.* Sr. Lectr.  
 Jones, J. D., BSc *Lond.* (on leave) Lectr.  
 Highnam, K. C., BSc *Manc.*, PhD Lectr.  
 Phillips, J. G., BSc PhD *Liv.* Lectr.  
 Lusia, O., MagRerNat *Latvia* Museum Curator

## DENTAL STUDIES

### Dental Mechanics and Prosthetics

Turrell, A. J. W., LDS *Leeds* Sr. Lectr.  
 Smith, J. P., BChD LDS *Leeds* Lectr.  
 Lehman, M. L. Lectr.  
 1 Instr.

### Dental Metallurgy

Woodhead, J. H., BMet †Lectr.

### Dental Pathology

Hodson, J. J., BDS PhD Prof.  
 Allan, J. H., LDS *Glas.*, BDS Lectr.  
 Battersby, T. G., FDSRCS Hon. Lectr.  
 Dinsdale, R. C. W., BChD *Leeds*,  
 FDSRCS Hon. Lectr.

**Dental Surgery**

Roberts, G. L., MB ChB BDS *Liv.*, FDSRCS  
 Prof., Dir. of Dental Studies  
 Hampson, E. L., MDS *Liv.*, FDSRCS  
 (Oper. & D. Surg.) Prof.  
 Clarke, J., LDS Lectr.  
 Atkinson, Anne M., LDS Lectr.  
 Belk, D. T., BDS Asst. Lectr.  
 Moore, C. F., LDS Asst. Lectr.  
 Hull, J., DDS *Penn.* †Asst. Lectr.  
 Rastall, R., LDS †Hon. Lectr.  
 Rayner, G. H., LDS, FDSRCS  
 (Maxillo-facial Surg.) †Hon. Lectr.  
 Sprinz, R., BDS PhD, FDSRCS (Prev. D.) Lectr.  
 Wedgwood, Marjorie M. (Prev. D.) Asst. Lectr.

**Oral Anatomy and Histology**

Sprinz, R., BDS PhD, FDSRCS Lectr.  
 Heald, H. R., LDS †Lectr.  
 Wedgwood, Marjorie M. Asst. Lectr.

**Orthodontics**

Gardiner, J. H., BDS *Manc.* Sr. Lectr.  
 6 other Clin. Dental Teachers

**ENGINEERING**

(see also Maths., above)

**Applied Mechanics (Postgraduate)**

Tuplin, W. A., DSc *Manc.* Prof.  
 Meyer, M. L., BSc(Eng) *Lond.*,  
 DiplIng *Berl.* Sr. Lectr.  
 Freeman, P., BEng Lectr.  
 Kirk, C. L., BSc(Eng) *Lond.* Lectr.  
 Rose, E., BSc *Manc.* Lectr.  
 1 Res. Asst.

**Engineering, Chemical**, see Fuel Technol.,  
 below

**Engineering, Civil**

Boulton, N. S., MSc *Birm.* Prof.  
 Eastwood, W., PhD *Aberd.*, BEng Sr. Lectr.  
 Osgerby, C., BSc(Eng) *Lond.* Lectr.  
 Sarginson, E. J., MEng *Liv.* Lectr.  
 Clements, M. S., BEng Lectr.  
 Wilby, C. B., BSc PhD *Leeds* Lectr.  
 Litton, E., BSc *Glas.* Lectr.

**Engineering, Electrical**

Cullen, A. L., OBE, BSc(Eng) PhD *Lond.* Prof.  
 Butler, O. I., DSc *Wales*  
 (Electr. Machinery) Reader  
 Harrison, D., MEng *Liv.*, PhD Sr. Lectr.  
 Benson, F. A., MEng *Liv.*, DEng PhD Sr. Lectr.  
 Harris, D. J., BSc(Eng) PhD *Lond.* Lectr.  
 Robson, P. N., BA *Camb.* Lectr.  
 Brown, R., BEng PhD Lectr.  
 Allison, J., BSc(Eng) *Nott.*, PhD Lectr.  
 Howatson, A. M., BSc PhD *Edin.* Lectr.

**Engineering, Mechanical**

Duncan, J. P., ME *Adel.* Prof.  
 Parker, C. F., BSc *Lond.* Sr. Lectr.  
 Baildon, E., MSc(Eng) *Lond.* Sr. Lectr.  
 Wallace, J. F., BEng PhD Sr. Res. Fellow  
 Sutherland, K. H., BSc *Durh.* Lectr.  
 Briggs, G. C., BEng Lectr.  
 Bernat, E. P., DiplIng *Livoro* Lectr.  
 Neal, P. B. N., BEng (on leave) Lectr.  
 Woo, D. M., BSc *Shanghai*, MSc *Mich.* Lectr.  
 Ferguson, T. B., MA *Camb.* Lectr.  
 Stringer, J. D., BScTech *Manc.* Lectr.  
 Sparling, L. G. M., BEng Lectr.  
 Kenny, B., BEng Asst. Lectr.  
 1 Tutor

**Fuel Technology and Chemical Engineering**

Thring, M. W., MA *Camb.*, FIP  
 Newton Drew Prof.  
 Hulse, C., BSc *Birm.*, PhD Sr. Lectr.  
 Beet, A. E., BMet PhD Lectr.  
 Siddall, R. G., MSc PhD Lectr.  
 Perry, M. G., BSc(Eng) *Rand* Lectr.  
 Fells, I., MA PhD *Camb.* Lectr.  
 Littlewood, K., BSc *Lond.* Lectr.  
 Start, P. L., BScTech PhD Lectr.  
 Southern, H. (Furnace Design) Hon. Lectr.  
 Fells, H. A., MBE, BSc PhD *Lond.*, FRIC  
 (Gas Utilization) Hon. Lectr.  
 Chesters, J. H., BSc DScTech PhD, FIF  
 (Indust. Res.) Hon. Lectr.  
 Essenhigh, R. H., BA *Camb.* C.E.A. Res. Fellow  
 Mani, J. W. S., BE MTech PhD *Kharagpur*  
 I.C.I. Res. Fellow  
 2 Res. Assts., 2 Demrs.

**Glass Technology**

Douglas, R. W., DSc *Lond.*, FIP Prof.  
 Tress, H. J., BSc PhD *Lond.* Lectr.  
 Isard, J. O., MA *Camb.*, BSc *Lond.* Lectr.  
 Sykes, R. F. R., BSc BScTech Lectr.  
 Parkin, M., MSc †Lectr.  
 Parke, S., BSc *Lond.*  
 Owens Illinois Res. Fellow  
 Bates, T., BSc *Lond.* Jr. Res. Fellow

**Mining**

Atkinson, F. S., MEng Prof.  
 Roberts, A., BSc *Lond.*, MSc *Durh.*,  
 PhD *Nott.* (Postgrad. Sch.) Dir.  
 Hurst, G., BEng Sr. Lectr.  
 Pursall, B. R., BSc *Wales* Lectr.  
 Metcalf, J. R., BSc(Eng) *Lond.* Lectr.  
 Williams, F. T., MSc *Wales*  
 (Postgrad. Sch.) Lectr.  
 Bunt, H. J., BSc *Manc.*  
 (on leave) (Postgrad. Sch.) Lectr.  
 †Hon. Lecturers  
 Evans, W. H., MSc PhD *Lond.*  
 Grimshaw, H. C., OBE, MSc *Manc.*, PhD  
 Guénault, E. M., MSc PhD  
 Tideswell, F. V., OBE, MSc *Manc.*, PhD

**Camb.** Surveyor: J. D. Auld, TD. Planning Officer: H. R. Johnson, BA DipArch. Asst. (Extra-Mural Studies): F. E. McDermott, BA Camb.

**LIBRARY.** Dep. Librarian: W. L. Saunders, MA Camb., FLA. Sub-Librarians: W. J. Hitchens, MA Camb.; Sigrid Mandahl, BA Oxon.; G. C. J. Stoneham, MA Oxon., FLA. Asst. Librarians: A. Davies, BA Liv.; Joan Gilham, MA Camb.; Christina M. Mather; Brenda E. Moon, BA Oxon.; T. A. D. Smith, BA; J. A. B. Townsend, BA Oxon.

**STUDENT HEALTH SERVICE.** Med. Officer in Charge: P. W. W. Gifford, MB ChB Birm.

**Asst. Med. Officers:** Alison Chapman, MB ChB St.And.; J. L. Graham, MB ChB St.And.

**WARDENS OF HALLS OF RESIDENCE.** For men: W. R. Maddocks, BSc Wales, PhD Glas. (Crewe Hall); Prof. H. W. Lawton, MA Wales (Ranmoor House); G. C. Bird, BA Lond. (Stephenson Hall). For women: Dorothea M. Mowat, BSc PhD Edin. (Halifax Hall). **LODGINGS WARDEN:** Ethel T. M. Ball.

**APPOINTMENTS BOARD.** Sec.: E. A. Owens, BA Lond.

**SR. TUTOR FOR WOMEN STUDENTS.** Alice Garnett, BA PhD Lond.

**MASTER OF PHYSICAL RECREATION.** H. Cofield.

## GENERAL INFORMATION

The Sheffield Sch. of Med., founded 1828, Firth Coll., established as a coll. of arts and sci. in 1879, and the Sheffield Technical Sch., opened in 1886, were united in 1897 to form Univ. Coll., Sheffield. In 1905 the coll. became, by royal charter, the Univ. of Sheffield.

Originally dependent almost entirely on local contributions, the univ. developed slowly in its early yrs., with the facs. of engin. and metall. in particular benefiting from their close connexion with local industry, but with a balance of student numbers largely in favour of the arts and pure scis. In recent yrs. Treasury grants have made possible all-round expansion, and since the end of the war 13 new depts. have been establd., 26 chairs created, 5 major bldgs. and considerable extensions completed, and extensive sites acquired. Particular attention has been paid to facilities for postgrad. study in the various branches of engin. and metallurgy, in 2 of which—glass and refractories technol.—Sheffield has the only univ. teaching depts. in the country.

**CONSTITUTION.** The court, the governing body of the univ., consists of some 470 reps. of educnl. and financial interests, who receive an annual report and statement of accounts and sanction changes in ordinances. Executive control rests with the council, composed of the officers of the univ. and reps. apptd. by court, senate, the non-professorial staff, local authorities and hosps., and convocation. The senate, comprising the profs. of the univ. and certain other academic persons, controls all academic affairs and reports to the council on academic matters requiring action by the council. Seven facs. (*see below*), each under its own bd., are responsible to the senate for the teaching in their various depts. The dept. of extra-mural studies and inst. of educn. report direct to the senate and the council through their bds.

The chancellor is the chief officer of the univ. The vice-chancellor is the principal academic officer, and is, *ex officio*, chairman of senate.

**INCOME (1958-59).** Endowments, £52,096; donations and subscriptions, £47,934; grants

from local authorities, £39,172; parliamentary grants, £974,518; students' fees, £167,780; contributions for services rendered, £132,228; other income, £3644.

**FACULTIES AND DEANS.** *Arts* (incl. archit.), Prof. D. R. Cousin (philos.); *econ. & soc. studies*, Prof. J. C. Gilbert (econ.); *engin.* (depts. of civ., electr. and mech. engin., appl. mechs., mining, fuel technol. & chem. engin., glass technol.), Prof. M. W. Thring (chem. engin.); *law*, Prof. O. R. Marshall; *med.* (incl. dental studies), J. G. McCrie; *metall.*, Prof. J. White (refractories technol.); *pure sci.*, Prof. D. G. Northcott (pure maths.).

**UNIVERSITY PRECINCT.** The teaching and res. bldgs. of the facs. of arts, econ. & soc. studies, law, med. and pure sci., the sch. of soc. studies, library, staff club house, students' union and admin. offices are grouped in the Western Bank area, in close proximity to 4 of the teaching hosps. A short distance from this main group lies the St. George's Sq. block of engin. and metall. depts., and on the other side of Western Bank, linked to it by new playing-fields, the bldgs. of the dept. of glass technol. Sites now being developed, both in the neighbourhood of these groups of bldgs. and in a pleasant residential suburb about a mile away, in which the halls of residence for students are situated, will result in compact univ. teaching and residential quarters.

**LIBRARY.** Arts, econ. & soc. studies, law, med., pure sci.: 223,943 vols. and pamphlets; appl. sci.: 21,887 vols. and pamphlets. Also sp. glass technol., inst. of educn., and deptl. collections.

**LABORATORIES, ETC.** Equipment for advanced study and res. in all depts. Sp. provision for engin. in all branches, incl. mining, and fuel technol. & chem. engin.; also for glass technol. and metall., the equipment for the latter incl. an experimental-scale steel works. Electronic computation lab.; Edge Mount radio-astron. stn. Alfred Denny Museum (zool.).

HOSPITALS available for clinics: Royal Inf. (505 beds); Royal H. (440 beds); City General H. (652 beds); Jessop H. for women (225 beds); Children's H. (221 beds); Lodge Moor, Hallwood, King Edward VII Hs. and the Sheffield Sanatoria for infectious dis. (955 beds); Middlewood H. (mental dis.) (2029 beds); Edgar Allen Physical Treatment & Rehabilitation Centres (52 beds); Charles Clifford Dental H.

ACADEMIC YEAR. Oct.—June (3 terms of 10 weeks each).

ADMISSION. See Appendix II.

FIRST DEGREES. BA gen., BA sp. hons. (classics, Engl., French, German, Spanish, hist., mod. hist. & govt., philos., econ., econ. & govt., maths., archit., music, biblical hist. & lit., psychol., and combinations of certain of these subjs.)—3 yrs. (except BA hons. archit.—5 yrs. incl. approved time spent in an architect's office). BArch hons.—5 yrs. BA(Econ) (hons. may be obtained on results of final exam.)—3 yrs. BMus—3 yrs. (4 yrs. if combined with BA). BEng, ord. or hons. (civil, electr., or mech. engin., mining), BScTech, ord. or hons. (fuel technol. & chem. engin.)—3 yrs. after passing entrance exam.\* LLB, ord., hons. (on results of final exam.)—3 yrs. MB ChB, BDS (hons. available on combined results of 2nd, 3rd and final exams.)—5 yrs. after passing 1st exam. (BDS, pt. I of 1st exam.)\* BMet, BScTech (glass or refractories & ceramics technol.), ord.—3 yrs.; hons. 3 yrs. after passing inter. exam.\* BSc, gen.—3 yrs.; sp. hons. (maths., phys., chem., zool., bot., physiol., geol., geog., anat., biochem.)—3 yrs. after passing inter. exam.\*

BA and BSc gen. degrees (on which hons. may be obtained under certain conditions) are awarded on 3 subjs. offered in the final exam.; sp. degrees of BA and BSc with hons., on one principal subj. of the hons. sch., together with any subsid. subject(s) required. In the various branches of engin., admission to the hons. course (in the 3rd, final, yr.) is obtained on the results of the 1st (post-inter.) exam. In glass technol. admission to the hons. course may be obtained at the end of either the 1st or 2nd yr. on exam. results.

Under certain conditions, grads. of a U.K. univ. who wish to qualify for the sp. degree of BA or BSc with hons., BMus, or LLB need only attend courses for 2 yrs. if they have pursued a course for 2 yrs. at some approved instn. Similar conditions apply in the case of grads. of approved univs. who wish to qualify for BEng, BScTech or BMet with hons. (for BEng or BScTech ord. degree, the attendance required may be 1 or 2 yrs.; BMet ord. degree, 2 yrs.).

Attendance on approved courses at a univ. or coll. recognized for the purpose may be accepted as equivalent to such courses in the univ. The univ. contributes towards the expenses of under-

grads. spending a term at univ. so recognized by the fac. of arts for certain lang. courses.

Transfer Year. A prelim. transfer yr. is available for students admitted to the hons. sch. of chem. under the I.C.I. scheme.

HIGHER DEGREES. LLM, MA, MA(Econ), MSc, MEng, MMet, MScTech, obtainable:—

(i) by bachelors of the univ. of not less than 1 yr.'s standing, holding approved degrees in the fac. concerned: (a) by presentation of a thesis, with oral and written exam. if required (attendance on courses may also be required as follows: LLM, MA and MA(Econ)—such courses as the fac. concerned may prescribe for candidates who hold a bachelor's degree without hons.; MSc—3 consecutive terms for grads. BSc with hons. of less than 2 yrs.' standing, 6 consecutive terms under certain conditions for grads. BSc without hons.; MEng—3 consecutive terms for grads. BEng of less than 2 yrs.' standing and experience in the sci. or practice of engin.; MMet—not less than 3 terms' res. in the dept. of metall. for grads. BMet of less than 3 yrs.' standing and experience in the sci. or practice of metall.; MScTech in fuel or glass technol.—3 consecutive terms for grads. BScTech of less than 2 yrs.' standing and experience in the sci. or practice of technol.; MScTech in refractories technol.—not less than 3 terms' res. in the dept. of refractories technol. for all candidates); (b) *alternatively* for MA, MA(Econ), MSc, MMet, MScTech in refractories technol., by written exam. (and submission of a dissertation with oral exam. if required in the case of MMet in refractories technol.), after attendance on approved courses of not less than 1 yr.

(ii) under certain conditions, by grads. of other facs., appropriately qualified grads. of other approved univs., and (except for the degree of LLM) certain other persons with approved qualifs. (towards which the practice of engin., metall. or technol. may contribute in the case of MEng, MMet and MScTech respectively), after attendance on courses varying from 1 to 3 yrs. (MSc in educn., 5 yrs. pt.-time).

(iii) (MEng, MMet, MSc, MScTech only) by appropriately qualified full-time members of staff of affiliated technical colls., by presentation of a thesis after 3 yrs.' approved res. in the affiliated instn. under univ. supervision.

MD, MDS, ChM, obtainable only by grads. of the univ.: MD, by thesis (and exam. if required); MDS, by thesis or exam.—2 yrs.' standing; ChM, by exam.—3 yrs.' standing.

PhD, available in all facs. after a 3-yr. course of study (which may, in certain circumstances, be reduced to 2 yrs.) to grads. of any approved univ. and to persons holding other approved qualifs., and in the facs. of arts, law and econ. and soc. studies after 4 yrs.' pt.-time study to grads. only.

Doctorates obtainable only by grads. of the univ.: LLD, for distinction in res. or learning in

law (exam. may also be required)—4 yrs.' standing; DMus, by composition (or thesis) and exam., DEng, DMet, DScTech, for distinction in published original res.—5 yrs.' standing; LittD, LittD(Econ), for distinction by contribution to learning—grads. MA, MA(Econ) of 5 yrs.' standing; DSc, for distinction in published original res.—grads. BSc of 6 yrs.' standing, grads. BSc of other approved univs. who are also MSc or PhD of Sheff. of 6 yrs.' standing.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Archit., 5 yrs. (incl. approved time spent in an architect's office); LDS, 5 yrs.; glass technol., 3 yrs. (for those with 2 yrs.' practical experience, 2 yrs.); assoc. fuel. technol. & chem. engin., assoc. glass technol., assoc. metall. (for persons already holding appropriate qualifs.), 1 yr. *Postgraduate:* educn., 1 yr.; microbiol., 1 yr.; pub. health, 18 months pt.-time; appl. mechanics, 1 yr.; mining, 1 yr. full-time or equivalent pt.-time; business studies, 1 yr.; glass technol., phys. metall., 1 yr.; soc. studies, 1 or 2 yrs.

**CERTIFICATES.** Archit., 3 yrs.; profess. practice of archit., exam. after 1 yr.'s profess. practice following award of degree or dipl.; biblical hist. & lit., 2 yrs.' evening study; soc. studies, 2 yrs.

**POSTGRADUATE COURSES.** In addn. to those leading to a qualif., postgrad. courses not leading to a qualif. are available on a pt.-time basis in the postgrad. depts. of appl. mechs., mining and phys. metall. to specially qualified persons from industry.

**BUSINESS STUDIES.** 12-wk. course for executives from industry, comm. and the public service: 6 residential sessions each of a fortnight, held at one of the univ. halls during 6 successive vacs.

**RESEARCH.** Facilities for postgrad. res. in all depts. A univ. fund assists members of academic, library and admin. staffs, res. fellows and scholars of the univ., and, in certain circumstances, registered res. students, in cases where adequate funds are not otherwise available. *Annual Report* lists publ. work and titles of theses approved for higher degrees.

**STUDY LEAVE.** No regular practice, but applcns. by members of staff for leave of absence dealt with by univ. council on merit.

**FEES.** *Annual composition fees* (incl. tuition, registration, exam., graduation and membership of students' union, but excl. lab. and re-exam. fees). Bachelor's degrees: BA, BA(Econ), BMus, LLB, £55; BSc, MB ChB, BDS, REng, BScTech, BMet, £65. Higher degrees: MA, LLM, PhD (without lab. facilities), £35; MSc, MEng, MScTech, MMet, with attendance, PhD (with lab. facilities), £45; MA, MSc, MEng, MScTech, MMet, without attendance, £20; LLM, without attendance, £15; MD, MDS, ChM, PhD (pt.-time), £25; LittD, DMus, LLD, DSc, DEng, DScTech, DMet, £30. Diplomas: archit., pub. & soc. admin. (full-time), soc. studies

(2-yr. course), £55; educn., microbiol., appl. mechanics, mining, glass technol., phys. metall., soc. studies (1-yr. course), £65; pub. health, £75. Associateships: fuel technol. & chem. engin., metall., £65. (*Note:* Composition fee for undergrad. courses may be remitted in the case of children of full-time members of the univ. staff.)

**PRINCIPAL OPEN ENTRANCE SCHOLARSHIPS,** awarded on the results of a sp. exam., held annually in the Easter vac. (entries by Feb. 1): *Firth*, one of £120 p.a. for 3 yrs.; *Edgar Allen*, 6 (of which 3 restricted as to father's income and type of occupation) of £100 p.a. for 3 yrs; *Univ.*, 4 of £40 p.a. for period of degree course; *Med.*, one, remittance of fees for med. degree course; *Matthew Henry Habershon*, 2 of £50 p.a., and *Parker Rhodes memorial*, one of £40 p.a., for degree course in mining; *Glass Sellers' Co.*, one of £40 p.a., up to 4 yrs. for honrs. degree in glass technol. All eligible for supplementation by Ministry of Educn.

**POSTGRADUATE AWARDS** open to grads. of other univs., see p. 825.

**STUDENT RESIDENCES.** For women (fees, £150 p.a.): Halifax Hall, Endcliffe Vale Rd., Sheffield 10 (tel.: Sheffield 63506) (main hall, 60 students; annexes, 60 students). For men (fees, £153-£171): Crewe Hall, Clarkehouse Rd., Sheffield 10 (tel.: Sheffield 60255) (main hall, 100; annexes, 21); Stephenson Hall, Oakholme Rd., Sheffield 10 (tel.: Sheffield 61225) (at present 100); Rannmoor House, Fulwood Rd., Sheffield 10 (tel.: Sheffield 32940) (50). For wardens, see 'Admin. and Other Staff', *above*. Registered lodgings: a list is maintained of lodgings supervised by a sp. cttee., and there is a full-time warden of lodgings; board and lodgings cost from £3 : 7s. : 6d. upwards per wk.

**STUDENT HEALTH SERVICE.** This service is in the charge of full-time med. officers (appointed by univ.), whom all students are entitled to consult. Under univ. regns. each student has med. exam. in 1st yr. (overseas students at entry). For med. officers, see 'Admin. and Other Staff', *above*.

**STUDENTS' UNION AND ATHLETICS.** Soc. & athletic sub. of £5 (incl. in composition fee) is compulsory. Following facilities available: (i) membership of univ. union and its various socs.; (ii) athletic grounds of approx. 55 acres, one on the outskirts of city and one, in course of devel., adjacent to univ.; (iii) gymnasium, boxing-ring, tennis, badminton, fives and squash courts, etc.

**OFFICERS' TRAINING CORPS.** A basic trg. wing and advanced sub-units of infantry, R.E. and W.R.A.C. C.O.: Lt.-Col. C. E. Eley, MBE, TD.

**APPOINTMENTS BOARD.** The services of the bd. are available to all students, past and present. The bd. has members from industry, etc., and maintains relations with employers in all fields. For sec., see 'Admin. and Other Staff', *above*.

**SHEFFIELD UNIVERSITY ASSOCIATION** of old students publishes periodically a paper giving addresses, occupations, hon., etc.

**EXTRA-MURAL STUDIES** (see also 'Teaching Staff', above). A bd. of extra-mural studies supervises the provision of pub. lectures, univ. extension courses, tutorial and sessl. classes, short residential schs. L.E.A.s and the W.E.A. are represented on the bd.

**INSTITUTE OF EDUCATION**, 387 Glossop Rd., Sheffield 10 (tel.: Sheffield 65287) (see also 'Teaching Staff', above). *Constituent members*:

univ. dept. of educn.; City of Sheff. Trg. Coll.; Thornbridge Hall Trg. Coll.; Wentworth Castle Trg. Coll.; Doncaster Trg. Coll.; Lady Mabel Coll. of Phys. Educn.; Totley Hall Coll. of Housecraft; City of Sheff. Coll. of Arts & Crafts.

**PUBLICATIONS.** *Calendar* (Oct.), 15s.; *Sheffield Univ. Gazette*, once each term, 1s.; *The Arrows*, a chronicle, twice a year, annual sub., 2s.; *Annual Report* (Dec.); *Handbook*; *Prospectuses* of facs., trg. dept., sch. of soc. studies, scholps.; *The Story of a Modern University: a History of the Univ. of Sheffield*, Arthur W. Chapman (O.U.P., 1955).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Sir Stuart & Lady Goodwin, £65,000 for gymnasium & swimming pool; estate of Mrs. Alice C. P. Doncaster, about £50,000; estate of Miss A. Marsden, about £20,000, for cancer res.

(Total value of all benefactions received: £139,329).

**MAJOR BUILDING DEVELOPMENTS.** *Approaching completion*: new gymnasium; extension to chem. bldg.

**NEW FACULTY.** Econ. & soc. studies.

**NEW CHAIRS.** Mediæv. hist.; psychol.

**RETIREMENTS.** H. Abson (appl. maths.); F. C. Turner (mech. engin.); M. Parkin (glass technol.); F. Orme (metall.).

**RESIGNATIONS.** W. O. Evans (Engl.), apptd. lectr. in Engl., Cardiff; J. Elizabeth Richardson (educn.), apptd. lectr. in educn., Brist.; Prof. F. F. Bruce (biblical hist. & lit.), apptd. Rylands prof. of biblical crit. & exegesis, Manc.; Dr. G. H. Jowett (stats.), apptd. assoc. dir. stats. lab., Melb.; Dr. A. N. Stroh (phys.), apptd. assoc. prof. phys., M.I.T.; Dr. P. L. Pauson (chem.), apptd. prof. of chem., R. Coll. of Sci. & Technol., Glas.; P. C. Sylvester-Bradley (geol.), apptd. prof. of geol., Leic.; Dr. J. M. Thoday (genetics), apptd. Arthur Balfour prof. of genetics, Camb.; Dr. K. D. Neame (physiol.), apptd. psychiatric res. officer, M.R.C., N.Z.; Dr. D. Verel (med.), apptd. regional cardiologist, Sheffield regional hosps. bd.; Dr. L. Ainsworth (glass technol.), to industry.

**DEATHS.** The Earl of Halifax (chancellor); Dr. T. B. Smith (lectr. in chem., 1919-56); Dr. G. M. Bennett (Fisth prof. of chem., 1931-38); Dr. P. E. Barber (prof. of midwifery, 1911-21); J. B. Ferguson Wilson (lectr. & clin. teacher of surg., 1912-43); Dr. C. A. Stewart (lectr. in maths., 1912-53); Dr. J. Sharpe (lectr. in soc. & indust. med.); C. H. Hainsworth (lectr. in electr. engin., member of staff of univ. coll. & univ., 1894-1945).

**HONORARY DEGREES.** *LittD*—T. S. Eliot, poet; S. A. Peyton, former univ. librarian. *MA*—Annie Bindon Carter, sec., Painted Fabrics Ltd.; G. M.

Ost, producer, Sheffield Repertory Theatre. *DSc*—Sir Hans Krebs, Whitley prof. of biochem., Oxford; Dr. R. Holroyd, dep. dir., I.C.I. *LLD*—C. B. Oldham, former principal keeper of printed books, British Museum; A. Ballard, chairman, Sheffield educn. cttee.; Sir Robert Platt, pres., R. Coll. of Physicians; Sir Stuart Goodwin, industrialist. *LLM*—J. Madin, pres., Sheffield Trades & Labour Council. *DEng*—Sir Willis Jackson, industrialist. *MScTech*—H. Southern, furnace designer. *DMet*—H. Bull, industrialist.

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	2271	304
Women . . .	581	240
Total	2852	544

**Distribution by Faculties.** *Arts*, 891; *engin.*, 656; *law*, 66; *med.* (incl. *dent.*), 810; *metall.*, 182; *sci.*, 759; *sociol. studies*, 32. Total: 3396.

*Included in the figures above are* :—

Postgraduate students, 535.

New admissions (full-time), 792.

Students from other countries, 235. (Countries from which largest numbers came: India, 42; Iraq, 11; Hong Kong, 8).

**DEGREES AWARDED (1958-59).** *Arts*: BA, 53; BA (hons.), 102; BA(Econ), 6; MA, 9. *Engin.*: BEng, 42; BEng (hons.), 25; BScTech, 9; BScTech (hons.), 10; MEng, 4; MScTech, 2. *Law*: LLB, 1; LLB (hons.), 5. *Med.*: MB ChB, 54; MB ChB (hons.), 1; BDS, 4; MD, 4; MDS, 1. *Metall.*: BMet, 15; BMet (hons.), 13; MMet, 13; DMet, 2. *Sci.*: BSc, 51; BSc (hons.), 124; MSc, 5; DSc, 2. PhD (all facs.): 71. Total number of first degrees awarded, 515.

**DIPLOMAS AWARDED (1958-59).** DipEducn, 63; DipArch, 15; DPSA, 6; LDS, 9; DipAM, 2; DipMin, 4; DipGlassTechnol, 1; AFCE, 4; AMet, 13.

**CERTIFICATES AWARDED (1958-59).** Archit., 22; professional pract. archit., 28; sociol. studies, 6.

# UNIVERSITY OF SOUTHAMPTON\*

Founded 1952 ; previously established as Hartley University College, Southampton, 1902

*Postal Address* : Highfield, Southampton, England

*Telegrams* : University of Southampton

*Telephone* : Southampton 54071 (4 lines)

VISITOR—H.M. THE QUEEN

CHANCELLOR—His Grace THE DUKE OF WELLINGTON, KG, LLD

PRO-CHANCELLOR—Sir SAMUEL GURNEY-DIXON, MA MD *Camb.*, LLD, JP

VICE-CHANCELLOR—D. G. JAMES, Hon. LLD *Mt. All. & Brown*, MA *Wales*

DEPUTY VICE-CHANCELLOR—Professor A. N. BLACK, MA *Camb.*

TREASURER—A. R. AVENS, FCA

SECRETARY AND REGISTRAR—R. N. M. ROBERTSON, MA LLB *Glas.*

ACADEMIC REGISTRAR—MARGARET W. PRICE WHITE, BA *Wales*

FINANCE OFFICER—F. H. SAWYER, FCA

LIBRARIAN—MARJORY I. HENDERSON, MA *Edin.*

## TEACHING STAFF

[†=Part-Time]

### Botany

Williams, W. T., ARCS, DIC, PhD  
DSc *Lond.*, FLS

Lane, G. R., BSc PhD *Lond.*

Lambert, Joyce M., MA PhD *Lond.*

Manners, J. G., MA PhD *Camb.*

Whitmore, T. C., MA *Camb.*

Myers, A., BSc PhD *Leeds*

Prof.

Sr. Lectr.

Lectr.

Lectr.

Lectr.

Asst. Lectr.

### Economics

Rowan, D. C., BA *Brist.*

Prof.

Armstrong, W. E., MA *Camb.*

(Econ. Theory) Prof.

Ford, P., BSc(Econ) PhD *Lond.*

Emer. Prof., (Parliamentary Papers) Sr.

Res. Fellow

Young, Agnes F., MA *Liv.*

(Soc. Studies) Sr. Lectr.

Hodgson, R. A., BCom DPA *Lond.*

(Comm. & Acctg.) Sr. Lectr.

Thomas, C. J., BSc *Wales*, MSc(Econ) *Lond.*

(Econ. Stats.) Sr. Lectr.

Richards, P. G., BSc(Econ) *Lond.*, PhD

(Govt.) Sr. Lectr.

Benn, S. I., BSc(Econ) *Lond.*

(Govt.) Lectr.

Trasler, G. B., BA *Exe.*, BSc(Econ)

PhD *Lond.*

Lectr.

Hart, H., BA(Com) (Comm. & Acctg.) Lectr.

Dunning, J. H., BSc(Econ) *Lond.*, PhD Lectr.

Butler, E. B., BSc(Econ) *Lond.*

(Econ. Stats.) Lectr.

Davison, Evelyn H., BA *Liv.* (Soc. Studies) Lectr.

O'Connell, Patricia E.

(Health Visitors' Course) Lectr.

Vale, V., MA *Camb.*

†Lectr.

Broady, M., BA *Liv.*

(Soc. Studies) Lectr.

Denton, G. R., BA *Oxon.*

Lectr.

### Education

Wagner, F. W., MA *Oxon.*, BSc *Adel.*

Prof.

### Chemistry

Cookson, R. C., MA PhD *Camb.*

Prof.

Campbell, Ishbel G. M., BSc

PhD *St. And.*

Sr. Lectr.

Fowles, G. W. A., BSc PhD *Brist.*

Sr. Lectr.

Webb, K. R., BSc PhD *Lond.*

Lectr.

Balson, E. W., BSc *Lond.*

Lectr.

Cartmell, E., BSc *Lond.*

Lectr.

Parker, R. E., BSc PhD *Lond.*

Lectr.

Riddiford, A. C., BSc PhD *Birm.*

Lectr.

Cavell, E. A., BSc PhD *Lond.*

Lectr.

Frey, B. A., DPhil *Oxon.*

Lectr.

Stevens, I. D. R., BSc PhD *Glas.*

Lectr.

Kerridge, D. H., BSc PhD *Nott.*

Lectr.

### Classics

Baldry, H. C., MA *Camb.*

Prof.

Whitaker, C. W., MA *Oxon.*

Lectr.

Douglas, A. E., MA *Oxon.*

Lectr.

Macleod, M. D., MA *Camb.*

Lectr.

Sparkes, B. A., BA PhD *Lond.*

Lectr.

\* Member of the Association of Universities of the British Commonwealth

Pearcy, I. H., BSc *Lond.*  
 Hancox, Marguerita K., MA *Birm.*  
 Rushby, J. G., BSc *Lond.*  
 O'Malley, R., MA *Camb.*  
 Thomas, Mary A. E., BSc *Brist.*  
 Oades, Iris K., BA *Lond.*  
 Richmond, P. E., BSc DipEd *Lond.*  
 Brookes, N. M., BSc *Leeds*, DipEd  
 MA *Lond.*  
 Ricks, Elsie M.  
 (Phys. Trg. & Hyg., Women) †Asst. Lectr.  
 Davics, V. S.  
 (Phys. Trg. & Hyg., Men) †Asst. Lectr.

### Electronics

Zepler, E. E., DPhil *Würzburg*, PhD  
 Punnett, S. W., BSc *Lond.*  
 Venning, B. H., BSc(Eng) *Lond.*  
 Gambling, W. A., BSc PhD *Liv.*  
 Vernon, E. V., BSc PhD  
 Bloodworth, G. G., MA *Oxon.*  
 Stachera, H. S., BSc(Eng) *Lond.*

### Engineering, see below

### English Language and Literature

Prince, F. T., MA *Oxon.*  
 Brooks, K. R., MA DPhil *Oxon.*  
 Sharrock, R. I., MA BLitt *Oxon.*  
 Swannell, J. N., BA *Lond.*  
 Osselton, N. E., BA *Lond.*  
 Cook, D. J., MA *Lond.*  
 Duncan, D. J. M., BA *Oxon.*

### French, see Romance Langs.

### Geography

Monkhouse, F. J., MA *Camb.*  
 Tavener, I. E., MA *Camb.*, PhD *Lond.*  
 Pelham, R. A., MA *Wales*, PhD *Birm.*  
 Robinson, G. W. S., MA *Lond.*  
 Large, D. C., MA *Syr.*  
 Small, R. J., BA *Camb.*, PhD  
 Barry, R. G., BA *Liv.*, MSc *McG.*

### Geology

Hodson, F., BSc *Lond.*, PhD *R'dg.*  
 Wisden, Dorothy E., MSc, FGS  
 Shelford, P. H., BSc DipEd *R'dg.*  
 Cosgrove, M. E., BSc *Lond.*

### German

Lucas, W. I., MA *Brist.*, PhD *Heidel.*  
 Wilson, W. L., MA *Edin.*  
 Papst, E. E., MA *Cape T.*  
 White, D. V., MA *Birm.*  
 Oades, Iris K., BA *Lond.*  
 †Lektor

### History

Rothwell, H., BA *Manc.*, PhD *Camb.*

Lectr. Bromley, J. S., MA *Oxon.*, FRHistS  
 Lectr. (Mod. H.) Prof.  
 Lectr. Patterson, A. T., MA *Durh.*  
 Lectr. Merson, A. L., MA *Oxon.*  
 Lectr. Hanna, A. J., BA *Belf.*, PhD *Lond.*  
 †Lectr. Pugh, T. B., MA BLitt *Oxon.*  
 Lectr. Mather, F. C., MA *Manc.*  
 Lectr. Blake, E. O., MA PhD *Camb.*  
 Lectr. Ball, J. N., MA PhD *Camb.*  
 †Lectr.

### Legal Studies

Phillips, A., MA *Oxon.*, PhD *Lond.* Prof., Dir.  
 Martin, A., LLD DrPolSc *Bud.*,  
 PhD *Lond.* †Reader  
 Wilson, J. F., MA *Oxon.* Sr. Lectr.  
 Samuels, H. A., BA *Camb.* Lectr.  
 Ganz, Gabriele, LLM *Lond.* Lectr.  
 Dyer, L. M., BA †Lectr.  
 Gerard, Antonia S. †Lectr.  
 Myers, M., MA †Lectr.  
 Gerrard, L. V. W. †Asst. Lectr.

### Mathematics, Pure and Applied

Davies, E. T., DSc PhD *Lond.*, DMATH *Rome*  
 (Pure M.) Prof.  
 Jahn, H. A., MSc *Lond.*, PhD *Leip.*  
 (Appl. M.) Prof.  
 Thwaites, B., MA *Camb.*, PhD *Lond.*  
 (Theoret. Mechanics) Prof.  
 Cockcroft, W. H., MA DPhil *Oxon.* Reader  
 Clark, R. S., MSc *Lond.*, PhD *Camb.* Sr. Lectr.  
 Wilson, Mrs. Nancy, MA *Edin.* Lectr.  
 Davies, H. J., BSc PhD *Wales* Lectr.  
 Brickell, F., BSc PhD *Lond.* Lectr.  
 Schonland, D., BSc *Rhodes*, MA  
 PhD *Birm.* Lectr.  
 Deicke, A. W. Lectr.  
 Cohen, L., MA *Camb.*, PhD *Manc.* Lectr.  
 Rhodes, F., BSc PhD *Liv.* Lectr.  
 Elliott, J. P., PhD *Lond.* Lectr.  
 Heading, J., MA PhD *Camb.* Lectr.  
 Marder, L., PhD *Lond.*, BSc Lectr.  
 Gribben, R. J., BSc PhD *Manc.* Lectr.

### Computation

..... Sr. Lectr.  
 Cleave, J. P., PhD *Lond.*, BSc Lectr.  
 Willis, J. B., BSc *Lond.* Lectr.

### Music

Williams, D. C., MusBac *Durh.*, FRCO Dir.

### Philosophy

MacIver, A. M., MA *Oxon.* Prof.  
 Manser, A. R., MA BPhil *Oxon.* Lectr.  
 Robinson, G. L., MA *Harv.* Lectr.

### Physics

Taylor, A. M., MA PhD *Camb.*, FIP Prof.  
 Hutchinson, G. W., MA PhD *Camb.* Prof.  
 Weintraub, S., MA *Oxon.*, FIP Sr. Lectr.  
 Jerrard, H. G., BSc *Lond.* Sr. Lectr.  
 McNeill, D. B., MSc PhD *Belf.* Lectr.



Kellner, K., PhD *Edin.* Lectr.  
 Myers, W. R., MSc *Lond.* Lectr.  
 Mercer, D. M. A., BSc *Lond.*, MA *Camb.* Lectr.  
 Scurlock, R. G., BSc DPhil *Oxon.* Lectr.  
 Hopkins, B. J., MSc *Birm.* Asst. Lectr.  
 Mee, C. H. B., BA *Camb.*, MSc *Birm.* Asst. Lectr.

### Physiology and Biochemistry

Munday, K. R., BSc *Manc.*, PhD *Aberd.* Sr. Lectr., Hd. of Dept.  
 Kerkut, G. A., MA PhD *Camb.* Sr. Lectr.  
 Beechey, R. B., BSc PhD *Leeds* Lectr.  
 Clements, A. N., BSc *Brist.*, PhD *Camb.* Lectr.

### Romance Languages and Literatures

#### French

Hackett, C. A., MA *Camb.*, DU *Paris* Prof. in charge of Romance Langs.  
 Beaumont, E., MA PhD *Lond.* Sr. Lectr.  
 Cruickshank, J., MA PhD *Dub.* Sr. Lectr.  
 Foster, B., MA *Durh.*, DU *Paris* Lectr.  
 Scott, J. W., BA *Leeds* Lectr.  
 Hall, Kathleen M., MA DPhil *Oxon.* Lectr.  
 Falvey, J. F., BA *Nott.* Lectr.  
 Eastman, Mrs. Simone P. Lectrice  
 2 Lecteurs

#### Spanish

Kerr, R. J. A., MA *Glas.* Lectr.  
 Moir, D. W., MA *Aberd.* Lectr.  
 1 Lecteur

### Theology

Parkinson, Rev. K. E. H., MTh BD *Lond.* †Lectr.

### Zoology

Raymont, J. E. G., BSc *Lond.*, AM *Harv.* Prof.  
 Hall, R. E., BSc *Lond.* Lectr.  
 Hockley, A. R., BSc *Lond.* Lectr.  
 Fairbairn, W. J., BSc *St. And.* Lectr.  
 Delany, M. J., MSc *Manc.* Lectr.  
 Shelton, G., PhD *Camb.* Lectr.

## ENGINEERING

### Aeronautics and Astronautics

Richards, E. J., OBE, MA *Camb.*, DSc *Wales* Prof.  
 Davies, P. O. A. L., BE *Syd.*, PhD *Camb.* Sr. Res. Fellow  
 Jones, J. P., BSc(Eng) *Lond.* Sr. Lectr.  
 Tanner, T. Lectr.  
 Mead, D. J. Lectr.  
 Bray, K. N. C., BA MSc(Eng) Lectr.  
 Torbe, I., MSc *Lond.* Lectr.  
 Clarkson, B. L., BSc PhD *Leeds* Lectr.

Parks, P. C., BA *Camb.* Lectr.  
 3 Res. Fellows

### Engineering, Civil

Morice, P. B., BSc *Brist.*, PhD *Lond.* Prof.  
 Tottenham, H., MA *Camb.* Reader  
 Ray, P. N., MA *Oxon.* Lectr.  
 Tate, A. P. K., BSc(Eng) *Lond.* Lectr.  
 Webber, N. B., BSc(Eng) *Lond.* Lectr.  
 Rydzewski, J. R., BSc PhD *Camb.* Lectr.  
 Allen, H. G., BSc PhD *Liv.* Lectr.

### Engineering, Electrical

Sims, L. G. A., PhD DSc *Birm.* Prof.  
 Chester, C. E., BEng *Sheff.* Lectr.  
 Steven, R. E., BSc *Belf.* Lectr.  
 Yorke, R., BSc *Lond.*, BEng *Sheff.* Lectr.  
 Morphew, K. L., BSc(Eng) *Lond.* Lectr.  
 Weedy, B. M., BSc(Eng) *Lond.* Lectr.  
 Morgan, K., BSc MSc(Eng) *Lond.* Lectr.  
 Ward, E. E., BSc PhD *Birm.* Lectr.

### Engineering, Mechanical

Black, A. N., MA *Camb.* Prof., Admin. Hd. of Engin. Depts  
 Cook, A. F., MA *Camb.* Lectr.  
 Sara, H. J., BSc(Eng) *Lond.* Lectr.  
 Helmer, C. H., BSc(Eng) *Lond.* Lectr.  
 Grassam, N. S., BSc(Eng) PhD *Lond.* Lectr.  
 Williams, T. R. G., MSc *Wales* Lectr.  
 Jolley, E. S. Lectr.  
 Foyle, R. J., BSc(Eng) PhD *Lond.* Lectr.  
 Hunt, J. B., BSc(Eng) *Lond.* Lectr.  
 Page, R. W., BSc *Brist.* Lectr.

## INSTITUTE OF EDUCATION

Wagner, F. W., MA *Oxon.*, BSc *Adel.* Dir  
 Hicks, W. C. R., BA *Lond.*, DrPhil *Erlangen* Sec., Dep. Dir  
 Lobb, K. M., MA PhD *Lond.* Staff & Tuto  
 Evans, E. G. S., MA PhD *Birm.* Lectr., Tuto  
 Douch, R., MA *Lond.* Lectr  
 Rose, A., MBE, JP †Lectr

## ADULT EDUCATION

Dir.: J. Parker, MA *Durh.*, JP. Tutor Or  
 ganizers: J. R. Armstrong, MA *Camb.*; R  
 Mullins, BA *Lond.*; A. G. Geddes, B  
*Lond.*; P. J. De Grouchy, MA *Oxon.*; E  
 Course, BSc(Econ) *Lond.*, PhD; K. F. Jay  
 BA *Lond.*, LL.D. *Leip.*; F. A. Ollett, M  
*Camb.*; E. C. Read, MA *Camb.*, BSc(Econ  
*Lond.* Res. Tutors with H.M. Forces  
 D. C. Hawkins, BSc(Econ) *Lond.*; D. W  
 Braddock, BA *Birm.*; E. M. G. Belfield, M  
*Oxon.*; E. J. Feuchtwanger, MA *Camb.*  
 PhD

## ADMINISTRATIVE AND OTHER STAFF

Asst. Sec.: Mrs. Nancy H. Hall. Asst. Sec. & Tech. Officer: J. V. Smith. Works & Bldgs. Officer: J. P. Halliwell, *Barch Liv.* Asst. Works & Bldgs. Officer: D. H. Bradnam. Admin. Assts.: D. A. Schofield, MA; E. A. Lewis, MA *Glas.* Asst. Finance Officer: J. H. Dalby. Appts. Officer: L. E. Tavener, MA *Camb.*, PhD *Lond.* Secretary's Private Sec.: Mary E. Pearce. Librarian, Inst. of Educn.: Joan V. Best, BA *Brist.* Admin. Asst., Inst. of Educn.: Mrs. Theodora F. Cormack. Admin. Asst. to Dir. of Adult Educn.: Ethel V. Turner, BA *Lond.* Clerk of Works: H. C. Doman. Lodgings Officer: Dilys B. E. Jenkins, BA *Lond.*, DipEd *Hull.*

Adviser to Overseas Students: Prof. A. Phillips, MA *Oxon.*, PhD *Lond.*

LIBRARY. Dep. Librarian: R. G. Woods, MA *Camb.* Sr. Asst. Librarians: A. Anderson, MA *Edin.*; D. M. Ellis, BA *Wales*; M. B. Line, MA *Oxon.*

WARDENS OF HALLS OF RESIDENCE. J. N. Ball, MA PhD *Camb.* (Connaught Hall); Elizabeth U. Lightbody, MA *Edin.* (Highfield Hall); V. Vale, MA *Camb.* (South Stoneham House); H. C. H. Mead, BA *Camb.* (Glen Eyre Hall); Iris K. Oades, BA *Lond.* (Chamberlain Hall).

## GENERAL INFORMATION

The univ. originated in the Hartley Instn. which was establd. from a bequest by H. R. Hartley, son of a Southampton wine merchant, who died in 1850. The instn., opened in 1862, was incorporated in 1902 under a scheme of the Bd. of Educn. as the Hartley Univ. Coll. at Southampton, and from that date until the establt. of the univ. students read for the external degrees of London Univ. The coll. was accomm. in the premises in the High St. built for the instn. until 1919 when it moved to the present site at Highfield, 2 mls. from the centre of the town. In 1953 the coll. was merged in the Univ. of Southampton, constituted by royal charter in 1952.

CONSTITUTION. The court is the supreme governing body of the univ. and the council is the executive body, managing revenue and property subject to statutes and to control of court. The senate regulates and superintends educn. and discipline subject to statutes and to approval of council. The chancellor, elected by court on nomination of council, is the chief officer of the univ. and the pro-chancellors exercise the functions of the chancellor in his absence. The vice-chancellor, apptd. by council, is the principal academic and admin. officer and is *ex-officio* chairman of senate. Bds. of facs. regulate, subject to review by senate, the teaching of subjs. assigned to them. The registered grads. and academic staff of the univ. form convocation which may report its views on any matter relating to the univ. to the appropriate body.

INCOME (1958-59). Total income (excl. income from tech. educn. and halls of residence), £574,883 (Treasury grant, 72.5 per cent.; local authority grants, 4.6 per cent.; fees, 14 per cent.; endowments, 0.5 per cent.; other sources, incl. external res. grants & contracts, 8.4 per cent.).

FACULTIES AND DEANS (1960-61). *Arts*, Prof. H. C. Baldry (classics); *econ.*, Prof. W. E. Armstrong; *educn.*, Prof. F. W. Wagner; *engin.*, Prof. P. B. Morice (civil engin.); *law*, Prof. A. Phillips; *sci.*, Prof. J. E. G. Raymont (zool.).

UNIVERSITY PRECINCT (*see also above*). The main bldg., opened in 1935, houses the libr. with depts. of the fac. of arts in adjacent wings. The other teaching bldgs. and the union bldg. are in the same area, occupying in all about 30 acres. It is hoped to acquire adjacent ground for future academic devels. The halls of residence and Montefiore and Wellington sports grounds (35 acres) are within 1-2 mls. of the main area.

LIBRARY. Main libr. and deptl. libr.: about 138,000 vols. Current periodicals: about 1100. The Ford collection of British parliamentary papers includes a bound set of sessl. papers, 1801 to date, and collections of non-parliamentary papers and duplicate sets of annual and statistical reports. It is housed in a libr. adjoining the dept. of econ.

MUSEUM. Zool.

LABORATORIES. Bot., chem., electronics, engin. (civil, electr., mech., aeronaut.), geol., phys., physiol., zool.; animal house, bot. gdn., Pegasus computer, hydraulic tidal model.

ADMISSION. *See* Appendix II.

FIRST DEGREES. BA general (until 1963; applicants will not be accepted for entry after Oct. 1960)—3 subjs. for 3 yrs. plus a 4th subj. in 1st yr. only. One of the 4 subjs. in 1st yr. must be a lang. (other than Engl., except for overseas students whose mother tongue is not Engl.). BA hons.—may be taken in the following single hons. schools: classics, Engl., French, geog., German, Greek, hist., Latin, maths., philos., or in any of the following combined hons. schools: Engl. & German, Engl. & Greek or Latin, Engl. & hist., French & philos., geog. & hist., German & Greek or Latin, German & philos., Greek or Latin & philos., mod. hist. with pol. & econ., Latin & Spanish, philos. & pol., philos. & pure maths., Spanish with hist.; BSc ordinary (entry only from 1st yr. on BSc hons. course)—2 subjs. for 3 yrs. in all, with hist. & methods of sci. for 1 yr.; BSc hons. (pt. I exam. at end of 2nd yr., pt. II at

end of 3rd yr.)—may be taken in bot., chem., electronics, geog., geol., maths. (pure & appl.), maths. with aeronautics, phys., physiol. & biochem., zool.; BSc(Eng)—ordinary and hons. (civil, electr., mech., aeronaut., struct. engin.). BSc(Econ)—hons. and pass; BA(Law)—hons. and pass. All degrees, except BSc(Econ), are awarded after a 3-yr. course provided that certain entrance requirements, particularly for hons. courses, are met. BSc(Econ) is awarded 3 yrs. after completion of qualifying exam. in econ., econ. hist., British constitution. From 1961 BA hons. in French will extend to 4 yrs., the 2nd yr. being spent in France.

For BSc(Eng) many students spend a yr. in industry between leaving sch. and entering the univ.; usually a 2nd yr. in industry follows the univ. course, but some students spend their 2nd yr. in industry between the 2nd and 3rd yrs. of the univ. course.

*As from Oct. 1962, new degree regns. in arts will be introduced allowing the study of either 1 subj. or 2 or more subs. in combination.*

All undergrad. freshmen on 1st degree courses attend, outside their own fac., a series of open lectures followed by informal evg. discussions, and other activities connected with these lectures.

The LLB is awarded as a 2nd degree after a further period of study extending over not less than 3 academic terms and following completion of BA(Law) of the univ. The dept. of legal studies provides courses for certain professional exams. (e.g. both pts. of Law Soc.'s inter. exam.), as well as for the univ.'s degrees.

**HIGHER DEGREES.** MA, MSc, MSc(Eng), MSc(Econ), MA(Ed), LLM (1-2 yrs. after bachelorship), open to grads. of the univ. and of other approved univs.; MSc, MSc(Eng) and PhD in facs. of sci. and engin. also open to non-grads. on certain conditions and with sp. approval; MSc may, with spec. permission, be taken by grads. after a further 3 mos.' study following the dipl. course in electronics. PhD (2 yrs.), open to grads. of U.K. univs. and other approved univs. Degrees of master or of PhD may with sp. permission be taken on a pt.-time basis (36 calendar mos.) by grads. This permission is not accorded to non-grads.; grads. of the univ. may obtain DLitt, DSc and LLD 6 yrs. after 1st graduation.

The univ. does not award **EXTERNAL DEGREES.**

**SPECIAL PROVISIONS.** Sp. provision for aeronautical instruct. (low and high speed wind tunnels); aircraft manufacturing firms in district provide opportunities for keeping in close touch with practical aircraft construn.

The technical dept. of the univ. enrolls 200-250 day release and evg. students for advanced courses in engin. and sci. (these student nos. are not included in 'The Year', *below*). It also provides short refresher courses for industry at postgrad. level.

**DIPLOMAS.** Soc. studies, 1 calendar yr. postgrad.; electronics, 1 yr. postgrad.; pub. admin.,

2 yrs. (pt.-time courses arranged for local govt. officers).

**CERTIFICATES.** Soc. casework, 1 calendar yr.; soc. studies, 2 yrs.; Inst. of Educn. cert. in educn., 1 yr. postgrad.

**OTHER COURSES.** Health visitors' course: in co-operation with public health authorities of the surrounding area, the univ. offers a 1-yr. course leading to the exam. for health visitor cert. of the Royal Soc. of Health. Course of integrated nurse/health visitor trg. organized jtly. by the univ. and the Nightingale Trg. Sch. at St. Thomas's Hosp., London: course covers 4 yrs. 9 mos.; final qualifs. include S.R.N., pt. 1 of C.M.B., and health visitor cert. of the Royal Soc. of Health. Further particulars of these courses obtainable from the tutor to the health visitors' course.

**ALLIANCES.** Regular schemes for exchange of students with univs. of Hamburg and Kansas.

**STUDY LEAVE.** One term's leave of absence may be granted subject to satisfactory provisions for continuity of teaching.

**FEES.** *Inclusive annual fees* (covering matric., registration, tuition, exams. and graduation, but not students' union sub.). Bachelor's degrees in arts, econ. and law, £50; sci. and engin., £60. Dipls.: soc. studies, £50; electronics, £60; pub. admin. full-time £50, pt.-time £15. Certs.: soc. casework, £65, with addtnl. fee of £20 for psychiatric course work; soc. studies, £50. Higher degrees: £30 without lab. facilities, £40 with lab. facilities. Students' union fee (compulsory), £5: 5s. p.a.

**ACADEMIC YEAR.** Oct. to July; 3 terms of 10 weeks each.

**ADULT EDUCATION** (*see also* 'Teaching Staff', *above*). The dept. of adult educn. provides courses covering a wide range of non-vocational subs. for groups of adult students in Hampshire, W. Sussex, E. Dorset and the Isle of Wight. Extension courses and tutorial classes are organized under the direction of the Jt. Cttee. for Adult Educn. The panel of extension lectrs. and tutors includes members of the univ. staff and other approved teachers.

**INSTITUTE OF EDUCATION** (*see also* 'Teaching Staff', *above*). *Constituent members*: Univ. Dept. of Educn.; Bognor Regis Trg. Coll.; Bournemouth Coll. of Art; City of Portsmouth Trg. Coll.; Avenue Trg. Coll., Southampton; Trg. Coll., Weymouth; King Alfred's Coll., Winchester. *Associated coll.*: Southern Coll. of Art, Marsh Lane, Southampton.

**STUDENTS' UNION.** All full-time students are required to be members of the students' union, which is responsible for the orgn. of various soc., cultural and athletic activities.

**ATHLETIC UNION.** Facilities are provided for all the union branches of sport, including rugby and association football, cricket, rowing, hockey, tennis and athletics.

**SCHOLARSHIPS AND EXHIBITIONS.** The univ. offers annually, on the results of a competitive exam. held in Feb., (a) 24 open scholps. of values from £40 to £100, all tenable for 3 yrs. and supplemented by the Ministry of Educn. covering fees and maintenance costs according to a recognized income scale. (b) 4 open exhibitions; 4 exhibitions to candidates resident in borough of Southampton; 2 social studies exhibitions. Exhibitions are of the value of free tuition.

**POSTGRADUATE AWARDS** open to grads. of other univs.: *see* p. 825.

**LOAN FUND.** A fund is available to help sr. students in need of financial assistance.

**HALLS OF RESIDENCE.** (For wardens, *see* 'Admin. and Other Staff', *above*.) All full-time students must ordinarily reside in one of the halls of residence or in approved lodgings, unless living with parents or guardians in Southampton. The halls are: for women—Highfield Hall, Omdurman Rd., Southampton, 108 places (tel.: Southampton 55483); Chamberlain Hall, Glen Eyre Rd., Southampton, 180 places (tel.: Southampton 69564); for men—Connaught Hall, Swaythling, Southampton, 127 places (tel.: Southampton 54402); South Stoneham House, Swaythling, Southampton, 50 places (tel.: Southampton 55627); Glen Eyre Hall, Glen Eyre Rd., Bassett, Southampton, 150 places (tel.:

Southampton 68959). Fees for session: women, £130; men, £130-£135, not incl. lunches or teas.

**UNIVERSITY AIR SQUADRON.** The univ. squadron was establd. in 1941. Membership is open to all students. All entrants become members of the R.A.F.V.R. C.O.—S/Ldr. A. A. Pearce.

**THE HARTLEY SOCIETY.** This is a former students' assocn., membership of which is open to all former students. There is a branch in London.

**STUDENTS' HEALTH.** There is no fully establd. health service, but each hall of residence has its med. officer, and arrangements are made for the mass radiography of all students.

**APPOINTMENTS BOARD.** (For appts. officer, *see* 'Admin. and Other Staff', *above*.) The bd. advises students about careers; collects and distributes information on vacancies in employment; establishes contact with technical firms, business houses, govt. depts., etc., with a view to placing students in employment.

**SCHOOL OF NAVIGATION,** Warsash, Southampton. Dir.: Capt. G. W. Wakeford; hd. of sr. dept.: Capt. A. Nichols; dep. dir. & hd. of jr. dept.: Capt. H. Stewart.

**PUBLICATIONS.** *Calendar* (Oct.), 10s. 6d.; *Proceedings* (Dec.).

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* Gurney-Dixon library; Lanchester engin. bldg. and Tizard aeron. engin. bldg.; Chamberlain hall of res. *Approaching completion:* senior common room bldg.

**NEW DEPARTMENTS AND CHAIRS.** Chairs of mod. hist., theoret. mechanics and electr. engin.

**RESIGNATIONS.** Dr. M. C. R. Symons (chem.), apptd. to chair of phys. chem., Leic.; Dr. G. N. Lance (computation), apptd. to Atomic Energy Estab., Winfrith Heath; L. P. Harvey (Spanish), apptd. lectr., Queen Mary Coll., Lond.; J. E. H. Braybon (phys.), apptd. to post with B.B.C.

**DEATHS.** Prof. H. Stansfield (prof. of phys. & electr. engin., 1912-32); Prof. G. G. Dudley (prof. of educn., 1943-50); Rev. H. I. Frith (hon. lectr. in theol. studies, 1944-49).

**HONORARY DEGREES.** *LLD*—Rt. Hon. Lord Denning of Whitechurch, Lord of Appeal in ordinary. *DLitt*—Sir Stanley Spencer, painter. *DSc*—B. F. J. Schonland, dep. dir., Atomic Energy Res. Estab., Harwell.

Distribution by Faculties. *Arts*, 393; *econ.*, 196; *educn.*, 98; *engin.*, 292; *law*, 81; *sci.*, 555. Total: 1615.

*Included in the figures above are:—*

Postgraduate students, 271.

New admissions, 601 (551 full-time, 50 pt.-time).

Students from other countries, 84 (70 full-time, 14 pt.-time). (Countries from which largest numbers came: India, 8; Nigeria, 7; Germany, 7; Ghana, 4).

**DEGREES AWARDED (1958-59).** *Arts*: BA, 27; BA (hons.), 86; MA, 1. *Econ.*: BSc(Econ), 25; MSc(Econ), 1. *Engin.*: BSc(Eng) ord., 29; BSc(Eng) hons., 23; MSc(Eng), 1. *Law*: BA (law), 8. *Sci.*: BSc(gen.), 41; BSc(spec.), 82; MSc, 1. PhD (all facs.): 17. Total number of first degrees awarded, 321.

**DIPLOMAS AWARDED (1958-59).** Electronics, 15; pub. admin., 5.

**CERTIFICATES AWARDED (1958-59).** Postgrad. cert. in educn., 82; soc. casework, 10; soc. studies, 17; health visitors (Royal Soc. of Health), 16.

## Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	1117	56
Women . . .	434	8
<b>Total</b>	<b>1551</b>	<b>64</b>

# UNIVERSITY COLLEGE OF SUSSEX\*

Founded 1959

*Postal Address* : Stanmer House, Stanmer, Brighton, England

*Telephone* : Brighton 63447

**PRESIDENT**—The Rt. Hon. THE VISCOUNT MONCKTON OF BRENCHELY, KCMG, KCVO, MC, QC,  
MA Hon. DCL *Oxon.*, Hon. LLD *Brist.*

**CHAIRMAN OF THE COUNCIL**—Alderman S. M. CAFFYN, CBE, ARSM

**PRINCIPAL**—J. S. FULTON, MA *Oxon.*

**REGISTRAR**—A. E. SHIELDS, MBE, MA *Camb.*

**LIBRARIAN**—D. COX, BA *Durh.*

## TEACHING STAFF

Briggs, A., MA *Oxon. & Camb.*,  
BSc(Econ) *Lond.*, FRHistS  
Dean, Sch. of Soc. Studies, & Prof. of  
Hist.

Other members of staff to be appointed.

## ADMINISTRATIVE AND OTHER STAFF

Buildings Officer : T. C. Green, BArch *Liv.*

## GENERAL INFORMATION

The idea of a Univ. Coll. of Sussex was first discussed in 1911, when it was suggested that such a coll. should be establd. at Brighton and recognized as a constituent part of the Univ. of London. An appeal for funds was launched and about £2800 was collected, but on the outbreak of the first world war the proposal fell into abeyance. It was not revived until after the second world war, when the rapid development of the Brighton Tech. Coll. gave rise to a proposal that that institution should be developed into a univ. coll. This idea was not favourably received by the Univ. Grants Cttee. and the Ministry of Educn., and in 1948 it was agreed by the Brighton Borough Council that the ultimate aim should be to have a separate univ. institution. No further action was taken, however, until 1955, by which time national needs were pointing to the necessity for a considerable expansion of univ. educn. during the decade beginning 1961. In 1956, as the result of an approach by the Brighton Borough Council to the other local authorities in Sussex, a joint cttee. was formed to take further action to found a univ. coll. An approach was made to the Univ. Grants Cttee., which, after satisfying itself on various aspects of this proposal, finally, on July 1, 1958, gave its formal approval to the establishment of the coll.

The joint cttee. was then reconstituted as a provisional coll. council, and the coll. obtained interim legal status when, in May 1959, it was registered under the Companies Act as a Limited Liability Company, the members of the council being the dirs. of the company.

**CONSTITUTION.** The Univ. Grants Cttee. agreed with the joint cttee.'s desire that the coll. should attempt a new approach to univ. studies, and to make this possible it approved that the coll. should award its own degrees from the outset. In order to guarantee satisfactory academic standards, it was decided to appoint an academic advisory cttee., consisting of 5 or 6 persons of high academic standing, which would have the duty of advising on the range and organization of studies, the maintenance of standards, the appt. of the principal and the sr. members of staff, and the contents of a royal charter of incorporation. A petition for a charter is to be presented before the end of 1960. The draft of the charter provides that the institution will be incorporated as a univ. (not as a univ. coll.) and that the academic advisory cttee., with the above-mentioned duties, will be an integral part of the univ.'s constitution for a limited period. There will be a court, council and

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senate, and the usual univ. officers, but the powers of the court will be limited to the election of the chancellor, the pro-chancellors, the treasurer and some of the members of council.

**INCOME.** The 5 local educn. authorities in Sussex have promised to contribute between them an annual sum of about £40,000 towards the recurrent expenditure of the univ. The Univ. Grants Cttee. has undertaken to meet the remaining essential recurrent expenditure from 1962-63. The Univ. Grants Cttee. has also set aside £1½ million to provide bldgs. (other than student residences) for the univ. during the period 1960-1963. A public appeal is to be launched at the end of 1960 to obtain funds primarily for student residences.

**ADMISSION.** *See* Appendix II.

**STUDIES.** At the outset, the univ. will have 2 facs. . arts and sci. Arts studies leading to a BA degree (taking 3 yrs.) will be organized in 3 schools—English studies, European studies and social studies—the intention being to ensure that the necessary specialization is accompanied by a desirable breadth of approach, through the co-operation of different subject specialists in a common degree course. BSc degree studies will

include pure maths., appl. maths., phys., chem. and biol. A student taking a first honrs. degree in sci. will be required to study 3 of these subjs., together with some hist. of sci. or soc. sci., for 3 yrs. ; a limited number of students will be able to specialize in one of the subjs. for an extra yr. and obtain a second honrs. degree. A course (taking 3 yrs.) leading to a degree in engin. sci. (without specialization) will also be offered.

**STUDENTS.** The first students (about 50) will be accepted in Oct. 1961, in arts only. Students in arts and sci. (about 200 p.a. each) will be accepted from Oct. 1962.

**SITE AND BUILDINGS.** Work on the first 2 bldgs.—Coll. House (the social and recreational centre), and the phys. bldg.—will commence in Oct. 1960. These bldgs. should be completed by Oct. 1962. Four more bldgs.—chem., engin., arts and library—should be completed by Oct. 1963. In 1961-62, teaching will be carried on in rented premises. All the permanent bldgs. will be erected on the univ. site of about 200 acres at Falmer, between Brighton and Lewes. Of this, 150 acres have been leased to the univ. for 999 years by the Brighton Corp., and the remainder has been purchased.

# UNIVERSITY OF WALES\*

Founded 1893

*Postal Address* : University Registry, Cathays Park, Cardiff, Wales

*Cables and Telegrams* : University Registry, Cardiff

*Telephone* : Cardiff 22656-7

VISITOR—H.M. THE QUEEN

CHANCELLOR—H.R.H. THE DUKE OF EDINBURGH, KG, KT, GMBE, Hon. LLD *Edin. & Wales*, Hon DSc *Delhi*, FRS

PRO-CHANCELLOR—The Rt. Hon. LORD MORRIS OF BORTH-Y-GEST, CBE, MC, LLD

VICE-CHANCELLOR—(until Aug. 31, 1961) Principal A. STEEL, OBE, MA *Oxon.*, MA LittD *Camb.*, University College of South Wales and Monmouthshire

—(for biennium ending Aug. 31, 1963) Principal THOMAS PARRY, DLitt, FBA, University College of Wales, Aberystwyth

WARDEN OF THE GUILD OF GRADUATES—Rev. Principal W. T. PENNAR DAVIES, BLitt *Oxon.*, PhD *Yale*, BA

DEAN OF DIVINITY—Rev. Professor S. H. HEDLEY PERRY, MA *Camb.*, BA

REGISTRAR—T. J. MORGAN, DLitt, University Registry, Cathays Park, Cardiff

SECRETARY TO THE COUNCIL—ELWYN DAVIES, MSc PhD *Manc.*, MA

## ADMINISTRATIVE AND OTHER STAFF

UNIV. APPOINTMENTS BD. Sec. : H. B. Putt, BA *Brist.*, Univ. Registry, Cathays Park, Cardiff (tel. : Cardiff 22656). UNIV. SCHOOL OF EDUCN. Sec. : A. Davies, BA, Univ. Registry, Cathays Park, Cardiff (tel. : Cardiff 22656). CHIEF MED.

OFFICER FOR STUDENT WELFARE : G. Grant, MB BS *Lond.* Assts. : R. A. N. Hitchens, MD DPH ; Edith McKnight, BSc MB ChB *DipH Glas.*, Inst. of Preventive Medicine, The Parade, Cardiff (tel. : Cardiff 29268).

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE OF WALES, ABERYSTWYTH : see p. 1199.

UNIVERSITY COLLEGE OF NORTH WALES, BANGOR : see p. 1204.

UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF : see p. 1208.

UNIVERSITY COLLEGE OF SWANSEA : see p. 1213.

## SCHOOL OF THE UNIVERSITY

WELSH NATIONAL SCHOOL OF MEDICINE : see p. 1218.

## ASSOCIATED THEOLOGICAL COLLEGES AND SCHOOLS OF THEOLOGY

UNITED THEOLOGICAL COLLEGE, ABERYSTWYTH (tel. : Aberystwyth 281) (Calvinistic Methodist). CHRISTIAN DOCTRINE & ETHICS—Rev. Principal W. R. Williams, MA *Oxon.*, BA. CHURCH HIST.—Rev. Prof. R. B. Knox, MA BD *Belf.*, PhD *Lond.* HEBREW & O.T. EXEGESIS—Rev. Prof. S. H. Hedley Perry, MA *Camb.*, BA. N.T.

GREEK—Rev. Prof. S. Ifor Enoch, MA *Camb.*, BA. THEISM & PHILOS. OF RELIGION—Rev. Prof. R. N. Williams, MBE, MA *Camb.*, BA.

BANGOR SCHOOL OF THEOLOGY (Univ. Coll. of N. Wales, Bangor ; tel. : Bangor 501) (inter-denominational). N.T. GREEK—Rev. S. I. Buse,

\* Member of the Association of Universities of the British Commonwealth

MA BD; Rev. H. P. Owen, MA *Oxon.* HEBREW—Rev. Prof. B. J. Roberts, MA DD; Rev. Prof. G. R. M. Lloyd, BLitt *Oxon.*, BA BD; D. R. ap Thomas, MA *Oxon.*, BD *Lond.*, BA; Rev. C. F. Whitley, MA BD PhD *Dub.* CHURCH HIST.—Rev. Prof. R. T. Jones, DPhil *Oxon.*, BA BD; T. Richards, MA DLitt, Hon. LLD; Prof. Emer. R. T. Jenkins, CBE, MA *Camb.*, DLitt Hon. LLD, FSA; Rev. O. W. Jones, BA *Lampeter*, MA *Camb.* CHRISTIAN DOCTRINE—Rev. Principal G. Bowyer, BA BD. PHILOS. OF RELIGION—T. H. McPherson, MA N.Z., BPhil *Oxon.* HIST. OF RELIGIONS—Rev. D. W. Gundry, MTh BD *Lond.*, FRAI. HOLY SCRIPT & HEBREW—Rev. Principal T. E. Jones, MA BD; HOLY SCRIPT—Rev. I. Thomas, BA BD.

CARDIFF SCHOOL OF THEOLOGY (Univ. Coll. of S. Wales and Mon., Cathays Park, Cardiff; tel.: Cardiff 20781) (inter-denominational). PHILOS. OF RELIGION, PHILOSOPHICAL THEISM & CHRISTIAN DOCTRINE & ETHICS—Rev. Principal J. I. Jones, MA BD; Rev. J. C. Mears, MA; N. H. Palmer, MA *Oxon.* HELLENISTIC GREEK—Prof. B. R. Rees, MA *Oxon.*, PhD. N.T. GREEK & EXEGESIS—Rev. D. G. Davies, BA BD; Rev. H. L. Clarke, MA *Oxon.*, STM U.T.S.(N.Y.). O.T. HEBREW & SEMITICS—Prof. A. R. Johnson, Hon. DD *Edin.*,

PhD, FBA; Rev. E. R. Rowlands, BA *Camb.*, MA; Rev. E. T. Ryder, MA *Oxon.*, BD *Lond.*; Rev. D. R. Griffiths, MA *Oxon.*, MTh *Lond.*; Rev. E. Roberts, BA *Oxon.* & *Wales.* CHURCH HIST.—Rev. Prof. J. M. John, BA; Rev. O. G. Rees, BA *Lampeter*, MA *Oxon.* HIST. OF RELIGIONS—Rev. C. G. Williams, MA BD.

CARMARTHEN, The Presbyterian Coll. (The Parade, Carmarthen; tel.: Carmarthen 7157) (Unitarian, Congregationalist, Baptist). THEISM & PHILOS. OF RELIGION, CHRISTIAN DOCTRINE & ETHICS—Rev. Principal T. G. Davies, BA BD. N.T. GREEK & EXEGESIS—Rev. Prof. D. H. Davies, BA BD. HEBREW & O.T. STUDIES—Rev. Prof. D. J. Jenkins, MA BD.

SWANSEA, The Congregational Memorial Coll. (Ffynnone, Swansea; tel.: Swansea 59260) (Congregationalist). CHURCH HIST.—Rev. Principal W. T. P. Davies, BLitt *Oxon.*, PhD *Yale*, BA. Other Profs.: HEBREW & O.T. EXEGESIS—Rev. Prof. D. L. T. Evans, BA BD; N.T. GREEK & EXEGESIS—Rev. Prof. D. P. Roberts, MA *Oxon.*, BA BD; CHRISTIAN DOCTRINE & ETHICS, THEISM & PHILOS. OF RELIGION—Rev. Prof. D. J. Davies, BA.

## GENERAL INFORMATION

The univ. was founded by charter in 1893. This organized 3 univ. colls. already existing in Wales into a unified system for the purpose of degree exams. As the result of an enquiry held by a royal commission in 1916-18, a supplemental charter was granted to the univ. in 1920, which introduced many changes, the most important being the establt. of a 4th constituent coll. at Swansea. A further supplemental charter was granted in 1932 providing *inter alia* for the institution of the Welsh National Sch. of Medicine as a sch. of the univ. At the same time a change came about in the organization of theol. teaching. Theol. had up to this point been taught only in associated theol. colls. The amendment permitted the establt. of schs. of theol., which would combine the teaching resources of univ. colls. and of theol. instns. in univ. centres. Two schools have come into being, at Bangor and at Cardiff; but theol. colls. operating on their own still survive and continue to receive recognition.

CONSTITUTION. The supreme governing and legislative body of the univ. is the univ. court, an assembly consisting of reps. apptd. by local authorities, by the constituent and other colls. and by various instns. connected with educn. and scholarship. The univ. council is the executive body of the univ., and the academic bd. advises the council and court on all academic matters.

GRANT INCOME (1958-59), £1,768,470 (Treasury, £1,692,940; county councils and county borough councils, £75,530).

FACULTIES. Facs. of *arts* and *sci.* exist in each of the constituent colls. and operate within the colls. The following facs. do not exist separately in the colls. but only as univ. bodies, functioning on a univ. level—*archit.*, *educn.*, *law*, *music*, *rural sci.* (consisting mainly of profs. of agric. and allied subjs.), *technol.*, *theol.* (consisting mainly of recognized teachers of theol.), *med.* (the senate of the Welsh Natnl. Sch. of Med.). The academic bd. is constituted mainly of single reps. coming from all the facs.

LIBRARIES. See entries for constituent colls. and Welsh Natnl. Sch. of Med., *below*.

ADMISSION. See Appendix II.

FIRST DEGREES. 3 yrs. pass, hons.—BA, BSc, BMus, LLB, BPharm; 5 yrs. 2 terms (of which last 3 yrs. may be spent in an approved sch. of med.)—MB BCh; 6 yrs. (1st yr. in one of the constituent colls. of the univ., remainder in Welsh Coll. of Advanced Technol., Cardiff)—BArch.

The univ. prescribes conditions under which it awards initial degrees to students of the colls. and of the sch. of med. Courses leading to the BA and BSc are provided at the 4 constituent colls.

The BA hons. may be taken in the following sp. schs. at all 4 constituent colls., except where otherwise indicated: *archæol.* (at Cardiff only), *bibl. studies* (Bangor, Cardiff), *econ.*, *educn.* (Aberystwyth, Bangor, Cardiff), *English*, *French*, *geog.* (Aberystwyth, Swansea), *German*, *Greek*, *Hebrew* (Bangor, Cardiff), *Hispanic studies* (Cardiff only), *hist.*, *Latin*, *maths.* (Cardiff,



Swansea), music (Aberystwyth, Bangor, Cardiff), philos., Welsh. There are also jt. hons. schs. in certain of these subjs.

The BSc hons. may be taken in the following depts. at all 4 constituent colls., except where otherwise indicated: agric. (only at Aberystwyth and Bangor), agric. bot. (Aberystwyth and Bangor), agric. chem. (Aberystwyth and Bangor), agric. econ. (Aberystwyth only), anat. (Cardiff only), bot., chem., econ., educn. (Aberystwyth and Cardiff), engin. (electronic) (Bangor only), engin. (chem.) (Swansea only), engin. (civil, electr., mech.) (Cardiff and Swansea), for. (Bangor only), fuel technol. (Cardiff only), geog. (Aberystwyth and Swansea), geol. (Aberystwyth, Cardiff, Swansea), maths., metall. (Cardiff and Swansea), microbiol. (Cardiff only), mining (Cardiff only), phys., physiol. (Cardiff only), zool.

Courses leading to the BMus are provided at Aberystwyth, Bangor and Cardiff; to the LLB at Aberystwyth; for the MB BCh pre-clin. studies are pursued at Cardiff and thereafter at the Welsh Natnl. Sch. of Med.; for the BPharm at Cardiff in conjunction with the Welsh Natl. Sch. of Med. and the Welsh Coll. of Advanced Technol. The Welsh Coll. of Advanced Technol. is also associated for the purpose of providing courses of study for the BArch.

**HIGHER DEGREES.** MA, DLitt, MSc, DSc, MMus, DMus, LLM, LLD, MD, MCh, MPharm, BD, DD, PhD (in arts, sci., law, med.). For the BD (3 yrs.' course), study is pursued in one of the associated theol. colls. or at the schs. of theol. of the Univ. Coll. of N. Wales, Bangor, and the Univ. Coll. of S. Wales and Monmouthshire, Cardiff. The MA, MSc and LLM may be awarded to grads. of other univs. approved for this purpose who pursue a scheme of res. for at least 2 yrs. in one of the constituent colls. Only grads. of approved univs. who already have a master's degree (or BD) or have undertaken one yr.'s approved res. or have one yr.'s approved postgrad. technical experience may be candidates for the PhD, which is awarded after not less than 2 yrs.' subsequent full-time res. at one of the constituent colls. or the Welsh Natnl. Sch. of Med. (for full-time staff members of the colls. or the sch. sp. conditions apply).

**HONORARY DEGREES.** MA, MSc, MMus, DLitt, DSc, DMus, DD, LLD.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Educn., 1 yr. postgrad.; DPH, 18 mos. pt.-time; tuberculosis & chest diseases (DTCD), 2 yrs. subsequent to attainment of registrable qualif. (incl. 12 mos.' resident appt. in tuberculosis hosp. and attendance at approved courses of instructn.); agric. sci. or for., at least 1 yr. for grads. and others with equivalent qualifs.; theol., 3 yrs.; palæog. & archives admin., 1 yr. postgrad.; micropalæontol., 1 yr. postgrad.

**FEES.** *Annual composition fees* (comprising matric., registration, tuition, exam., graduation

and library fees, but excluding students' union fees, lab. fees and deposits). Initial degrees: BA, BMus, LLB, £50; BSc, BPharm, BArch, MB, BCh, £60. Dipls.: palæog., agric. sci., pub. health, £40; tuberculosis & chest diseases, £60; educn., micropalæontol., £70. Res. degrees: without lab. facilities, MA, MSc, MMus, LLM, £25; PhD, £30; with lab. facilities—MSc, MPharm, £35; PhD, £40. Students' union fee (compulsory) varies according to coll.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825. Details of other postgrad. awards are given in the univ. *Calendar*.

The **GUILD OF GRADUATES** consists of the grads. and hon. grads. of the univ. Periodical meetings are held. Its officers are the warden, the clerk and the treasurer. Address for communications: Univ. Registry, Cathays Park, Cardiff.

The **UNIV. SCHOOL OF EDUCATION** (Univ. Registry, Cardiff; tel.: Cardiff 22656), which is an area trg. organization, came into being in 1949 and superseded the univ. bd. for trg. colls. It is charged with the duty of surveying the general educnl. needs of Wales and Monmouthshire in regard to the educn. and professional trg. of teachers, and of co-ordinating developments and directing long-term policy, so as to formulate a comprehensive system for the trg. of teachers in the area. The organization comprises the univ. educn. bd., the univ. fac. of educn. and the 4 collegiate facs. of educn. at Aberystwyth, Bangor, Cardiff and Swansea.

**UNIV. EXTENSION BOARD** (Univ. Registry, Cardiff; tel.: Cardiff 22656) co-ordinates and reviews the extra-mural work of the constituent colls. For details, see coll. entries.

**BOARD OF CELTIC STUDIES** (Univ. Registry, Cardiff; tel.: Cardiff 22656) organizes and publishes results of res. into the hist., lang., lit., laws, customs, archæol., art and instrns. of the Celtic peoples. Publicns.: *Bulletin* half-yearly; *Llen Cymru* (journal of literary res.) half-yearly. •

The **UNIV. APPOINTMENTS BOARD** (Univ. Registry, Cardiff; tel.: Cardiff 22656) is concerned with appts. of all kinds.

**PUBLICATIONS.** *Calendar* (Oct.), 10s. post free. Courses in div. and in mus., and matric. and degree regns., free. Degree exam. papers: arts, £1, sci., 15s., med., 2s., theol., 2s. *Bulletin* of Board of Celtic Studies, 7s. 6d. per part (5s. to subscribers). Publicns. of the Council of Music. Accounts of early hist. of univ. are given in *The Univ. of Wales*, by W. Cadwaladr Davies and W. Lewis Jones (F. E. Robinson & Co., 1915), and *The Univ. of Wales: A Historical Sketch*, by D. Emrys Evans (Univ. of Wales Press, 1953).

**UNIVERSITY PRESS.** Establd. by charter, 1922. Main field of interest: books in Welsh and works of res. relating to Wales. Offices: Univ. Registry, Cathays Park, Cardiff; tel.; Cardiff 22656.

THE YEAR 1959

**HONORARY DEGREES.** *MA*—H. D. Jones, reader for Welsh dictionary; G. Williams, founder & musical dir., Llangollen internat. eisteddfod. *LLD*—Sir Lewis Casson, actor & theatrical producer; Mr. Justice E. Davies, formerly hon. standing counsel of the univ.; Sir Ifan ab Owen Edwards, founder pres., *Urdd Gobaith Cymru*; Sir Emrys Evans, former vice-chancellor of the univ.; Sir Harold Himsworth, sec., Med. Res. Council; Sir William Pugh, dir., Geological Survey of Gt. Britain; Dr. T. Richards, Welsh ecclesiastical historian. *DSc*—R. M. Titmuss, prof. of social admin., L.S.E., Lond. *DLitt*—C. E. Davies, archaeologist and sometime chancellor of St. Asaph Cathedral; Prof. F. N. Robinson, Harv.; Prof. A. Sommerfelt, pro-rector, Oslo Univ.

*Included in the figures above are :—*

Postgraduate students, 398.  
New admissions, 1783.  
Students from other countries, 359. (Countries from which largest numbers came: Iraq, 52; India, 29; Nigeria, 29; Uganda, 22; Kenya, 19).

**DEGREES AWARDED (1958–59).** *Archit.*: BArch, 1. *Arts*: BA, 510; MA, 34. *Law*: LLB, 28. *Med.*: MB BCh, 54; MD, 5; MCh, 2. *Music*: BMus, 9; DMus, 2. *Sci.*: BPharm, 13; BSc, 548; MSc, 36; DSc, 3. *Theol.*: BD, 8. PhD (all facs.): 56. Total number of first degrees awarded, 1171.

Statistics

STUDENT NUMBERS, 1959–60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	4370	106
Women . . .	1789	41
Total	6159	147

**DIPLOMAS AWARDED (1958–59).** Agric. sci., 4; educn., 377; palæog., 1; DPH, 1; theol., 15; TDD, 28.

[Information compiled as at 1/9/60]

UNIVERSITY COLLEGE OF WALES,  
ABERYSTWYTH

Founded 1872

*Postal Address*: Aberystwyth, Wales

*Cables and Telegrams*: University College of Wales, Aberystwyth

*Telephones*: Aberystwyth 346–8

**PRESIDENT OF THE COURT OF GOVERNORS AND OF THE COUNCIL**—Sir DAVID HUGHES PARRY, QC, MA *Camb.*, Hon. DCL *McG.*, Hon. LLD *Birm.*, Br. Col., *Camb.*, Hull, New Br., Wales & W. Ont.

**VICE-PRESIDENTS**—The Rt. Hon. THE EARL OF LISBURN; IVOR EVANS, MA *Oxon.*

**TREASURER**—J. ALBAN DAVIES

**PRINCIPAL**—T. PARRY, MA *DLitt*, FBA

**REGISTRAR**—T. MAELGWYN DAVIES, MA

**LIBRARIAN**—A. AP GWYNN, MA

## TEACHING STAFF

[† = Part-Time]

**Agriculture**, see below**Anthropology**, see Geog.**Art and Crafts**, see Educn.**Botany**

Wareing, P. F., PhD DSc Lond., FLS Prof.  
 Carter, P. W., MSc Sr. Lectr.  
 Wilson, Irene M., MSc PhD Lond. Sr. Lectr.  
 Chater, E. H., BSc Lond., MSc Lectr.  
 Jones, H., MSc PhD Lectr.  
 Bradbeer, J. W., PhD Durh. (on leave) Lectr.  
 Savidge, J. P., PhD Liv. Asst. Lectr.  
 Newman, G. I., BA Camb. Asst. Lectr.  
 † Demr.

**Chemistry**

Trotman-Dickenson, MA Oxon.,  
 PhD Manc., DSc Edin. Prof.  
 Davies, M. M., PhD ScD Camb., MSc Sr. Lectr.  
 Monk, C., DSc PhD Lond. Sr. Lectr.  
 Thomas, W. J. O., DSc PhD Sr. Lectr.  
 Bowen, J. B., BSc Lectr.  
 Graham, S. H., BSc PhD Glas. Lectr.  
 Morrison, G. A., MA DPhil Oxon.  
 (Biochem.) Lectr.  
 Williams, A. J. S., BSc Lectr.  
 Kerr, J. A., PhD Edin. Lectr.  
 Young, J. C., PhD Camb. Asst. Lectr.  
 Price, A. H., PhD Asst. Lectr.

**Classics**, see Greek and Latin**Economics**, see also Pol., Internat.

Beacham, A., MA Liv., PhD Belf., BA Prof.  
 George, P., MA Camb., MSc  
 (Stats. & Econometrics) Sr. Lectr.  
 Morris, J. H., MSc(Econ) Lond. Sr. Lectr.  
 Guénault, P. H., MA Sheff. Lectr.  
 Nevin, E. T., PhD Camb., MA Lectr.  
 Pankhurst, K. V., BSc Lond. Lectr.  
 Edwards, J. R., BA Camb. Asst. Lectr.  
 Williams, L. J., MA  
 (Welsh Econ. Hist.) Res. Lectr.

**Education** (incl. Art and Crafts)

Lewis, W. J., MSc Lond. Prof.  
 Trott, A. L., MEd Durh., MA Lectr.  
 Morrison, J. R., MA BSc Glas., BEd Edin. Lectr.  
 Clement, Mary, MA PhD Lectr.  
 Conway, H. T., BSc Brist. Lectr.  
 Jones, Rev. B. E., BA BD (Bibl. Studies) Lectr.  
 Jones, R. M., MA Lectr.  
 Dodson, C. J., MA Lectr.  
 Hall, E. G., BSc Nott. Lectr.  
 Jones, E., MA MEd Durh. Lectr.  
 Watkins, Mrs. M. Auriol, BA Asst. Lectr.

Gapper, R. L., BSc  
 (Art & Crafts) Sr. Lectr., Curator of Museum  
 Nisbet, S. (Art) Instr.  
 Williams, J. L., BSc PhD Lond., BA  
 Lectr., Advisory Officer in Fac. of Educn.

**English Language and Literature**

Jones, G., MA Rendel Prof.  
 Price, C. J. L., MA PhD Sr. Lectr.  
 Earnshaw, J., MA Manc. Sr. Lectr.  
 Nosworthy, J. M., MA R'dg., FRSL Sr. Lectr.  
 Slay, D., MA Oxon., PhD Lectr.  
 Mills, M., DPhil Oxon., MA Lectr.  
 Hawkes, T., MA Lectr.  
 Daniels, J. H., MA Syr., BA  
 (American Lit.) Lectr.

**French Language and Literature and Romance Philology**

Briggs, E. R., MA PhD Camb. Prof.  
 Williams, J. Killa, TD, MA Sr. Lectr.  
 Hoggan, Mrs. Yvonne G. R., LèsL Paris,  
 MA PhD Lectr.  
 Fletcher, D. J., MA Lectr.  
 Hoggan, D. G., MA St. And., LèsL  
 DUStras. Lectr.  
 John, S. G., MA Asst. Lectr.  
 Macpherson, I. R., MA Aberd., PhD Manc.  
 (Spanish) Asst. Lectr.  
 Maloney, B., MA Camb. (Italian) Asst. Lectr.  
 † Lectrice

**Geography and Anthropology**

Bowen, E. G., MA, FSA Gregynog Prof.  
 Fogg, W., MA Manc. Sr. Lectr.  
 Watson, E., MA Belf. Lectr.  
 Thomas, J. G., MA Lectr.  
 Howe, G. M., MSc PhD, FRMetS Lectr.  
 Carter, H., MA Lectr.  
 Yates, R. A., MSc Brist. Lectr.  
 Taylor, J. A., MA Liv., FRMetS Lectr.  
 Mounfield, P. R., BA Nott. Asst. Lectr.  
 McCann, S. B., BSc Asst. Lectr.  
 Wood, B. T., BSc Asst. Lectr.

**Geology**

Wood, A., DSc PhD Liv. Prof.  
 Kirk, Nancy H., BA PhD Camb. Lectr.  
 Phillips, W. J., PhD Lectr.  
 Haynes, J. R., PhD Lectr.  
 Convery, H. J. E., BSc Glas. Asst. Lectr.  
 Bates, D. E. B., BSc Belf. Asst. Lectr.  
 † 2 Tutorial Assts.

**German and Germanic Philology**

Magill, C. P., MA Camb., PhD Lond. Prof.  
 Robinson, A. R., BA Lond., PhD Edin. Lectr.  
 Harris, Sylvia C., MA Lond. Lectr.  
 † Lektor, † Tutorial Asst.

**Greek and Latin**

Davies, W. H., MA	(Classics) Prof.
Duff, A. M., MA BLitt <i>Oxon.</i>	Sr. Lectr.
Hudson-Williams, A., MLitt <i>Camb.</i> , BA	Sr. Lectr.
Wild, L. N., BA <i>Oxon.</i> , MA <i>Sheff.</i>	Lectr.
Emanuel, H. D., MA PhD	(Palæog. & Mediæv. Lat.) Lectr.
Thomas, J. D., MA <i>Oxon.</i>	Lectr.
Kilgour, Edna M., MA <i>Glas.</i> , BA <i>Oxon.</i>	Asst. Lectr.
Hart, Gillian R., BA <i>Oxon.</i>	Asst. Lectr.

**History**

Treharne, R. F., MA PhD <i>Manc.</i> , FRHistS	Prof.
Johnston, S. H. F., MA BLitt <i>Oxon.</i> , FRHistS	Sr. Lectr.
Sanders, I. J., DPhil <i>Oxon.</i> , MA, FRHistS	Sr. Lectr.
Fryde, E. B., MA DPhil <i>Oxon.</i> , FRHistS	Sr. Lectr.
Conway, A. A., MA <i>Lond.</i>	(on leave) Lectr.
Cobb, R. C., MA <i>Oxon.</i> , FRHistS	(on leave) Lectr.
Walker, R. F., DPhil <i>Oxon.</i> , MA	(Diplomatic) Lectr.
Wilson, H. S., BA <i>Durh.</i> , BLitt <i>Oxon.</i>	Asst. Lectr.

**History, Colonial**, see Pol., Internat.

**History, Welsh**

Williams, D., AM <i>Col.</i> , MA DLitt	Sir John Williams Prof.
Pierce, T. J., MA <i>Liv.</i>	(Mediæv.) Res. Prof.
Williams, G. A., PhD <i>Lond.</i> , MA	Lectr.
Smith, J. B., MA	Asst. Lectr.

**Latin**, see Greek and Latin

**Law, English**

Davies, D. J. LL., MA <i>Camb.</i> , LLB	Prof.
Hughes, G. B. J., MA <i>Camb.</i> , LLM	Lectr.
Salvert, H. G., LLM <i>Leeds</i>	Lectr.
Salvey, B. J., LLB <i>Lond.</i> , MCL <i>Tulane</i>	Asst. Lectr.
Rudden, B. A., MA <i>Camb.</i>	Asst. Lectr.
Moseley, T. H., BA LLB <i>Camb.</i>	Asst. Lectr.

**Logic and Philosophy**

Aaron, R. I., DPhil <i>Oxon.</i> , MA, FBA	Prof.
ones, O. R., BLitt <i>Oxon.</i> , BD PhD	Lectr.
Thomas, D. O., PhD <i>Lond.</i> , BA	Lectr.
ycos, K., BA <i>Syd.</i>	Asst. Lectr.
Nalters, P. W. E., BA <i>Rand</i>	Asst. Lectr.

**Mathematics, Applied**

Davies, T. V., DSc <i>Lond.</i> , MSc	Prof.
asthope, C. E., PhD <i>Camb.</i> , MSc	Sr. Lectr.
ogers, Ruth H., MSc PhD <i>Lond.</i>	Lectr.
leard, D. W., MSc <i>Lond.</i>	Lectr.
Nalters, K., MSc PhD	Lectr.

James, Mrs. Eleanor M., BSc	Asst. Lectr.
i Tutorial Asst.	

**Mathematics, Pure**

Morton, V. C., MA <i>Oxon.</i>	Prof.
Meyler, Dorothy S., MSc	Sr. Lectr.
Rogers, Ruth H., MSc PhD <i>Lond.</i>	Lectr.
Morris, A. O., BSc PhD	Asst. Lectr.
James, Mrs. Eleanor M., BSc	Asst. Lectr.
Penry, M. D., MSc	Asst. Lectr.
i Tutorial Asst.	

**Music**

Parrott, H. I., MA DMus <i>Oxon.</i> , FTCL	Gregynog Prof.
Clements, C., BMus, FRCO	Sr. Lectr.
Clapham, J., DMus <i>Lond.</i> , FRAM	Lectr.
Executants and Teachers	
Bor, E.	(Violin)
Hunter, Hilda, BA <i>Birm.</i> , FTCL	(Pianoforte & Wind Instruments)
Llewellyn, R.	(Singing)
Edmunds, M.	(Cello)
Ullman, L.	(2nd Violin)
Manton, V.	(Viola)

**Philosophy**, see Logic

**Physics**

Beynon, W. J. G., CBE, PhD DSc, FIP	Prof.
Jones, I. C., MSc, FIP	Sr. Lectr.
Richards, D. A., ARCS, DIC, MSc <i>Lond.</i>	Sr. Lectr.
Job, E. M., BSc	Lectr.
Jones, W. M., DPhil <i>Oxon.</i> , BSc, FIP	Lectr.
Trevena, D. H., PhD <i>Camb. &amp; Wales</i> , BSc	Lectr.
Edwards, D. H., PhD <i>Camb. &amp; Wales</i> , BSc	Lectr.
Brown, G. M., MA <i>Camb.</i> , MSc	Lectr.
Maude, A. D., BSc PhD <i>Nott.</i>	Lectr.

**Politics, International**

Reynolds, P. A., MA <i>Oxon.</i> , FRHistS	Wilson Prof.
John, I. G., MSc <i>Lond.</i> , BA	(I. Pol. & Colonial Hist.) Lectr.
Morgan, R. P., MA PhD <i>Camb.</i>	Asst. Lectr.

**Statistics**

Lindley, D. V., MA <i>Camb.</i>	Prof.
Bartholomew, D. J., BSc PhD <i>Lond.</i>	Lectr.
i Res. Officer	

**Welsh Language and Literature**

Jones, T., MA DLitt	Prof.
Gwenallt Jones, D. J., MA	(Mod. Welsh Lit.) Sr. Lectr.
Hughes, G. H., MA	Sr. Lectr.
Watkins, T. A., MA	Lectr.
Bowen, D. J., MA	Lectr.
McCann, P., MA PhD <i>Belf.</i>	(Irish) Lectr.
Roberts, B. F., MA	Lectr.
Piette, J. R. F., LèsS <i>Rennes</i>	(Breton & Cornish) Asst. Lectr.

**RETIREMENTS.** Eva M. Phillips (French) ; D. Davies (philos.) ; J. I. Platt (geol.).

**RESIGNATIONS.** B. Roscoe (agric., crop husb.) ; J. F. Wilson (law), apptd. sr. lectr. in law, S'ton. ; A. M. Kinloch (Engl.), apptd. assoc. prof. of Engl., New Br. ; N. C. H. Dunbar (law), apptd. prof. of law, Tas. ; N. Rast (geol.), apptd. lectr. in petrol. & geochem., Liv. ; A. G. Chloros (law), apptd. lectr., King's Coll., Lond. ; W. L. Jenkins (agric. chem.), apptd. sr. lectr., U.C. of Rhodesia & Nyasaland ; E. A. Attwood (agric. econ.) ; Cecile J. M. Allison (dairying) ; H. S. Eveling (philos.), apptd. lectr., Edin. ; R. Maude (pure maths.) ; Katherine M. M. Vine (classics) ; R. A. Taylor (econ.).

**DEATH.** D. H. Lewis (staff tutor, extra-mural studies).

### Statistics

#### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	997	—
Women . . .	483	—
Total	1480	

**Distribution by Faculties.** *Arts*, 607 ; *educn.*, 139 ; *law*, 78 ; *music*, 3 ; *rural sci.*, 157 ; *sci.*, 496. Total : 1480.

*Included in the figures above are :—*

Postgraduate students, 224.

New admissions, 459.

Students from other countries, 46. (Countries from which largest numbers came : Uganda, 13, Nigeria, 6).

**DEGREES AWARDED** (by Univ. of Wales) (1958-1959). *Arts* : BA, 41 ; BA (hons.), 124 ; MA, 12. *Law* : LLB, 2 ; LLB (hons.), 24. *Music* : BMus (hons.), 3. *Rural sci.* : BSc, 4 ; BSc (hons.), 15 ; MSc, 5 ; PhD, 4. *Sci.* : BSc, 50 ; BSc (hons.), 55 ; MSc, 5 ; PhD, 17. *Total number of first degrees awarded*, 318.

**DIPLOMAS AWARDED** (1958-59). *By Univ. of Wales* : DipEd, 104. *By coll.* : dairy dipl., 17

**CERTIFICATES AWARDED** (1958-59). Bilingual studies, 10 ; univ. sch. of educn. teacher's cert., 3 ; internat. law & relns., 2 ; palæog., 1.

[Information compiled as at 22/7/60]

## UNIVERSITY COLLEGE OF NORTH WALES, BANGOR

Founded 1884

*Postal Address* : Bangor, Wales

*Cables and Telegrams* : University College, Bangor, Wales

*Telephone* (Registrar) : Bangor 2501

**PRESIDENT**—The Rt. Hon. LORD KENYON, LLD

**CHAIRMAN OF THE COUNCIL**—The Rt. Hon. LORD KENYON, LLD

**PRINCIPAL**—R. CHARLES EVANS, MA BCh Oxon., Hon. DSc, FRCS

**SECRETARY AND REGISTRAR**—K. LAWRENCE, BSc

**LIBRARIAN**—E. G. JONES, MA

### TEACHING STAFF

[† = Part-Time]

#### Agriculture, see below

#### Botany

Richards, P. W., MA ScD Camb.  
Woodhead, N., MSc Manc.  
Greig-Smith, P., MA Camb.  
Jackson, G. A. D., BSc PhD Durh.

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.

Lacey, W. S., BSc PhD R'dg.

Griffiths, D. J., BSc

Tweed, R. D.

Lectr.

Lectr.

Hon. Keeper of Herbarium

#### Chemistry

Peat, S., DSc Birm., FRS

Prof.

Angus, W. R., MA DSc *Aberd.*, PhD *Lond.*

FRIC (Phys. C.) Sr. Lectr.

Holmes, F., BSc *Lond.* Lectr.

McKail, J. E., BSc PhD *Edin.* Lectr.

Turton, Lillian M., BSc PhD *Birm.* Lectr.

Turvey, J. R., BSc PhD Lectr.

Lloyd, P. F., BSc PhD *Birm.* Lectr.

Thomas, J. M., BSc PhD Lectr.

Marshall, D. R., PhD *St. And.* Lectr.

Smith, T. D., MSc Lectr.

### Classics

Wycherley, R. E., MA *Camb.* (Gk.) Prof.

Clarke, M. L., MA *Camb.* (Lat.) Prof.

Browne, R. A., PhD *Camb.*, MA Sr. Lectr.

Pollard, J. R. T., MA *Lond.*, BLitt *Oxon.* Lectr.

Fittou-Brown, A. D., MA *Camb.* Lectr.

Jones, J. E., BA Lectr.

### Economics

Black, D., MA PhD *Glas.* Prof.

Scammell, W. M., BCom *Belf.*, PhD Sr. Lectr.

Jones, S., BA Lectr.

Smith, G. P., MA *Camb.* Lectr.

Kerridge, E., BA PhD *Lond.* Asst. Lectr.

### Education

Jenkins, D. W. T., MA *Oxon.* Prof.

Rogers, J., PhD Sr. Lectr.

Alexander, Marjorie B. Lectr.

Clegg, F. E., MA *Camb.* Lectr.

Jones, W. R., MA Lectr.

Tibbitts, E. L., BA *Lond.* Lectr.

Eames, A., MA Lectr.

Leng, I. J., BA Lectr.

Davies, B. L., MA Lectr.

Sants, H. J., MA *Oxon.* Lectr.

Rees, L., MA Lectr.

Glen, Margaret †P.T. Instr. for Women

### Electronic Engineering

Gavin, M. R., MBE, MA DSc *Glas.*, FIP Prof.

Ratchffe, G., MSc Sr. Lectr.

Hyde, F. J., MSc *Birm.* Sr. Lectr.

Jones, D. C., BSc Lectr.

Forster, J., BScTech *Manc.*, MSc *Durh.* Lectr.

Owens, A. R., MSc *Manc.* Lectr.

James, D. W. F., PhD *Lond.*, BSc Lectr.

### English Language and Literature

Danby, J. F., MA *Camb.* Prof.

King, R. W., MA *Lond.* Sr. Lectr.

Owen, W. J. B., MA *N.Z. & Oxon.*, PhD Sr. Lectr.

Bradbrook, F. W., MA *Camb.* Lectr.

Rigby, Marjorie M., MA *Glas.*, BLitt *Oxon.* Lectr.

Dyson, A. E., BA *Camb.* Lectr.

Brennan, Elizabeth M., MA *Belf.*, PhD *Lond.* Asst. Lectr.

Mackenzie, D. K. M., MA *Aberd.* Asst. Lectr.

Bailey, R. N., MA *Durh.* Asst. Lectr.

### Forestry

Mobbs, E. C., OBE, MA *Camb.*, BSc *Lond.* Prof.

Dobbs, C. G., PhD *Lond.*

(Forest Bot.) Sr. Lectr.

Owen, T. H., BSc Lectr.

Kinloch, D., BSc *Edin.* Lectr.

Huggard, E. R., BA BAI *Dub.* Lectr.

Elliot, G. K., BSc MF *Br. Col.* Asst. Lectr.

### French and Romance Philology

Alexander, I. W., MA DLitt *Edin.* Prof.

Watkins, J. H., MA Sr. Lectr.

Grimsley, R., MA DPhil *Oxon.* Sr. Lectr.

Watts, D. A., MA *Camb.*, DU *Paris* Lectr.

Simpson, Joyce, MA *Glas.*, DU *Lyons* Lectr.

Ronco, Daisy D., DU *Genou* Lectr.

### German and Teutonic Philology

Spalding, K., MA PhD *Birm.* Prof.

Stuart, Mrs. Hannah S. M., BA

PhD *Lond.*, MA Sr. Lectr.

Parry, I. F., MA Lectr.

Bednall, J. B., MA MLitt *Camb.* Lectr.

Whibley, K. H., BA *Lond.* (Russian) Lectr.

Hilton, I., BA *Ston.* Asst. Lectr.

### Hebrew and Biblical History and Literature

Roberts, Rev. B. J., MA DD Prof.

ap Thomas, D. R., MA *Oxon.*,

BD *Lond.*, BA Lectr.

Buse, Rev. S. I., MA BD Lectr.

Owen, Rev. H. P., MA *Oxon.* Lectr.

Whitley, Rev. C. F., MA BD PhD *Dub.* Lectr.

Thomas, Rev. I., BA BD Lectr.

### History, see also Theol.

Mowat, C. L., MA *Oxon.*, PhD *Minn.* Prof.

Thomas, J. A., PhD *Lond.*, MA Sr. Lectr.

Cooke, M. E., MA *Oxon.*, LLB *Birm.* Lectr.

Lewis, R. A., BA PhD *Birm.* Lectr.

Usher, G. A., MA Lectr.

Williams, W. O., MA Lectr.

Livens, R. G., BA Lectr.

Hughes, Rosemary, BA PhD *Lond.* Asst. Lectr.

McNulty, Patricia, BA *Lond.* Asst. Lectr.

### History, Welsh

Roberts, G., MA Prof.

Williams, J. G., MA Lectr.

### Linguistics

Palmer, F. R., MA *Lond.* Prof.

### Mathematics

Littlewood, D. E., MA *Camb.* (Pure M.) Prof.

Davies, D. R., PhD DSc *Lond.* (Appl. M.) Prof.

Phillips, E. G., MA *Camb.*, MSc *Manc.* Sr. Lectr.

Newing, R. A., BSc PhD *Lond.* Sr. Lectr.

Barker, C. C. H., MSc *Lond.* Lectr.

Chambers, L. G., MSc Lectr.

Moses, S., BSc  
Hare, A., PhD *Leeds*

Lectr.  
Asst. Lectr.

Gruffydd, R. G., DPhil *Oxon.*, BA  
Jones, B. L., BA

Lectr.  
Asst. Lectr.

### Music

Parry Williams, D. E., DMus BSc  
Smith, R. C., DMus  
Brindle, R. S., DMus  
Mathias, W., BMus  
Rands, B., MMus  
3 Executants and Teachers

Prof.  
Lectr.  
Lectr.  
Lectr.  
Asst. Lectr.

### Zoology

Brambell, F. W. R., BA PhD *Dub.*,  
DSc *Lond.*, FRs  
Jackson, L. H., BSc *Lond.*  
Reynoldson, T. B., DSc *Leeds*  
Jones, W. C., MA PhD *Camb.*  
Acton, A. B., MA DPhil *Oxon.*  
Alexander, R. McN., MA PhD *Camb.*

Prof.  
Sr. Lectr.  
Sr. Lectr.  
Lectr.  
Lectr.

Asst. Lectr.  
Asst. Lectr.  
Res. Asst.

### Philosophy

Mundle, C. W. K., MA *St. And. & Oxon.* Prof.  
Thomas, L. E., MA Sr. Lectr.  
Jones, H. M., BLitt *Oxon.*, BA Sr. Lectr.  
Miles, T. R., MA *Oxon.* Lectr.  
McPherson, T. H., MA N.Z.,  
BPhil *Oxon.* (see also Theol.) Lectr.  
Tucker, J. W., BA BSc PhD *Lond.* Lectr.  
Matthews, Gwyneth M., MA BLitt *Oxon.*,  
BA Lectr.  
Stewart, D. J., BA PhD *Brist.* (Psychol.) Lectr.

### Physics, see also Electronic Engin.

Andrew, E. R., MA PhD *Camb.* Prof.  
Wright, P., PhD *Camb. & Wales*, FIP Sr. Lectr.  
Morris, D. P., BSc PhD Lectr.  
Eades, R. G., PhD *St. And.* Lectr.  
Tredgold, R. H., BSc PhD *Nott.* Lectr.  
Llewelyn, J. P., BSc PhD *Aberd.* Lectr.  
Clough, S., BSc Lectr.  
Jones, H. I., MSc †Lectr.  
Hurd, J. D., BSc PhD *Sheff.* Asst. Lectr.  
Bradbury, A., BSc PhD Asst. Lectr.

### Theology, see also Hebrew

Bowyer, Rev. Principal G., BA BD  
(Christian Doctrine) Sp. Lectr.  
Gundry, Rev. D. W., MTh BD *Lond.*,  
FRAI (Hist. of Religions) Lectr.  
Jenkins, Prof. R. T., CBE, LLB *Camb.*, MA  
*Camb. & Wales*, DLitt Hon. LLD, FSA  
(Church Hist.) Sp. Lectr.  
Jones, Rev. O. W., MA *Camb.*, BA *Lampeter*  
(Church Hist.) Sp. Lectr.  
Jones, Rev. Prof. R. Tudor, DPhil *Oxon.*,  
BA BD (Church Hist.) Sp. Lectr.  
Jones, Rev. Prof. T. E., MA BD  
(Holy Scriptures) Sp. Lectr.  
Lloyd, Rev. Prof. G. R. M., BLitt *Oxon.*,  
BA BD (New Test.) Sp. Lectr.  
McPherson, T. H., MA N.Z., BPhil *Oxon.*  
(Philos. of Religion) Lectr.  
Richards, T., MA DLitt  
(Church Hist.) Sp. Lectr.  
Thomas, Rev. I., BA BD  
(Holy Scriptures) Lectr.

### Welsh

Williams, J. E. C., MA BD Prof.  
Roberts, Enid P., MA Lectr.  
Rees, B., MA Lectr.  
Jones, J. G., BA Lectr.

## AGRICULTURE

### Agricultural and Forest Zoology

Hobart, J., BSc *Lond.* Sr. Lectr.  
Ind, Marjorie O., PhD *Leeds* Lectr.  
Ford, J. B., PhD *S'ton.* Asst. Lectr.  
Herbert, I. V., BSc *Nott.*, MS *Iowa* Asst. Lectr.

### Agricultural Botany

Harper, J. L., MA DPhil *Oxon.* Prof.  
Parry, D. W., MSc Sr. Lectr.  
Mence, Margaret J., MA *Camb.* Lectr.  
Bradshaw, A. D., MA *Camb.*, PhD Lectr.  
Sagar, G. R., MA DPhil *Oxon.* Lectr.

### Agricultural Chemistry

Evans, W. C., PhD *Manc.*, MSc, FRIC Prof.  
Davies, R. I., MSc *Liv.* Sr. Lectr.  
Smithson, F., DSc *Lond.*, FGS Sr. Lectr.  
Evans, R. A., MSc Lectr.  
Thomas, A. J., MA *Camb.* Lectr.  
Axford, R. F. E., MA VetMB *Camb.* Lectr.

### Agriculture

Roberts, E. J., MA *Camb.*, MSc Prof.  
Davies, G. M., BSc PhD Sr. Lectr.  
Williams, G. L., BSc Lectr.  
Brown, W., MS *Purdue*, BSc Lectr.  
Watson, J. H., BSc *Durh.*, PhD *Edin.* Lectr.

### Marine Biology

Crisp, D. J., MA PhD *Camb.* Dir.  
Jones, C. B., PhD Dep. Dir.  
Spencer, C. P., BSc PhD *Leeds* Lectr.  
Jones, W. E., BSc PhD Lectr.  
Morris, Valerie, PhD *Edin.*, DPhil *Oxon.* Asst. Lectr.

## UNIVERSITY EXTENSION

Dir. of Extra-Mural Studies: Williams, A. Ll., MA  
Tutors: Jenkins, E., BA; Jones, F. P., BA;  
Griffith, D. J., BA; Williams, C. R., MA;  
Evans, M., PhD *Prin.*, BA.

## ADMINISTRATIVE AND OTHER STAFF

Wardens of Halls of Residence: Rev. D. W. Gundry, MTh BD Lond., FRAI (Neuadd Reichel); Margaret T. Martin, PhD Lond. (University Hall). Dep. Registrar: G. B. Owen, BCom Lond., FCIS. Asst. Registrar: E. Hughes, BA. Accountant: L. R. Ward. Buildings

Officer: H. J. Slade. Admin. Asst.: J. A. R. Forster, MA Oxon. Library Assts.: Margaret D. Jones, BA; R. I. J. Tully, FLA. Housemistress: Marian Beaumont. Maintenance Officer: R. O. Williams.

## GENERAL INFORMATION

The coll., constituted by royal charter in 1884, was made a constituent coll. of the univ. in 1893.

INCOME (1958-59). Total income, £436,150 (incl. univ. grant, 81 per cent.; endowments, 1 per cent.; fees, 13 per cent.).

FACULTIES AND DEANS. *Arts*, Prof. D. Black (econ.); *educn.*, Prof. D. W. T. Jenkins; *sci.*, Prof. P. W. Richards (bot.); *theol.*, Principal G. Bower.

LIBRARIES. General, 247,655 vols. (theol. a strong feature). Welsh, 89,248 (incl. the largest and best-equipped collection of Welsh periodicals in existence), MSS. 200,000.

MUSEUMS include: (a) museum of Welsh antiquities; (b) a zoological section comprising a large collection of vertebrate and invertebrate animals and a collection of human bones representative of the different races of mankind; (c) a collection of Welsh domestic and agricultural bygonies together with Roman finds from Segontium and Capel Curig.

FARM, 675 acres, chiefly sheep pasturage and dairy.

ADMISSION. Those wishing to read in the coll. for a degree (awarded by the Univ. of Wales) must satisfy the univ. admission requirements. See Appendix II.

NON MEMBERS OF THE COLL. may be admitted as occasional students to classes at the discretion of the deans of facs.

FIRST DEGREES (of Univ. of Wales). In addition to the normal courses in arts, there are courses in theol. for BD degree, in music for BMus degree, and full courses for the BSc in agric. and rural econ., and for., as well as in pure sci. There are hon. degrees as well as pass degrees in arts and sci. (see p. 1197). Students who have reached a sufficiently high standard before entry can complete an hon. degree course in 3 yrs. Other students will require 4 yrs. to complete an hon. degree course, or they may complete a pass degree course in 3 yrs. Other courses: 1st yr. of degree course in archit., med., pharm.; 1st yr. vet. sci.

HIGHER DEGREES (of Univ. of Wales). Res. work for higher degrees of the univ. (see p. 1198) is carried out in all depts. Sp. facilities in Welsh

lang. & lit., hist. of Wales, marine biol., agric., and animal health.

DIPLOMAS. *Univ. dipls.*: theol., 3 yrs.; agric. sci., educn., for., palaeog. & archives admin., 1 yr. postgrad. *Coll. dipl.*: mathl. phys., 1 yr. postgrad.

STUDY LEAVE. Study leave may be applied for when a member of staff has been in the coll. for 7 yrs. An endowed trust fund meets the cost of addnl. expenditure incurred by members of staff during their periods of study leave.

FEES. See under Univ. of Wales, *above*.

ACADEMIC YEAR. Oct. to June, with 3 terms of approx. 12 wks. each.

ADULT EDUCATION (see also 'Teaching Staff', *above*). Local lectures in lit., econ. and agric.; small lending libraries; tutorial and preparatory classes in 6 counties.

SCHOLARSHIPS. 12 scholps., which may be supplemented by Ministry of Educn., are open for award to students entering the coll. to read for a first degree.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 825.

APPOINTMENTS BOARD. See under Univ. of Wales, *above*.

RESIDENCE. (For wardens, see 'Admin. and Other Staff', *above*.) Neuadd Reichel (tel.: Bangor 708) provides accomm. for 160 men (fee, £155 p.a.) and University Hall (tel.: Bangor 633), with its annexes, for 145 women (fee, £150 p.a.). The warden of women students is also warden of University Hall.

PRINCIPAL STUDENT ATHLETIC FACILITIES. The coll. has extensive playing-fields for rugby, soccer, hockey, tennis and net-ball. The gymnasium has a ring for the use of the boxing club and provision is also made for fencing and badminton. In addition, there is a well-equipped rowing club.

STUDENT HEALTH SERVICE. See under Welsh Natnl. Sch. of Med., *below*.

STUDENTS' UNIONS. In addition to the normal union facilities in the coll. itself, a large house has been converted into a union.

PUBLICATIONS. *College Magazine*, one issue per term, 1s.; *Prospectus* free.



## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Total value of all benefactions received : £26,640.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed* : electr. engin. dept. ; study bedroom block for women students (to accomm. 120) ; zool. extension for res. *Approaching completion* : marine biol. stn. extension.

**NEW DEPARTMENTS AND CHAIRS.** Dept. & chair of linguistics.

**RETIREMENTS.** Prof. R. Alun Roberts (agric. bot.) ; Rev. A. E. Jones (adult educn.) ; I. Williams (educn.).

**RESIGNATIONS.** R. Parker (phys.), apptd. to Portsmouth Coll. of Technol. ; M. Gray (econ.), apptd. lectr., Aberd.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	846	28
Women . . .	355	35
Total		63

**Distribution by Faculties.** *Agric.*, 132 ; *arts*, 449 ; *educn.*, 94 ; *electr. engin.*, 68 ; *for.*, 61 ; *mus.*, 10 ; *pure sci.*, 367 ; *theol.*, 20. Total 1201.

*Included in the figures above are :—*

Postgraduate students, 202.

New admissions, 328.

Students from other countries, 78. (Countries from which largest numbers came : India, 7 ; Iraq, 6 ; Ghana, 6 ; Kenya, 6).

**DEGREES AWARDED (1958-59).** *Agric.* : BSc (hons.) (agric.), 24. *Arts* : BA, 30 ; BA (hons.), 67 ; MA, 14. *Electr. engin.* : BSc (hons.), 5. *Music* : BMus, 1. *Sci.* : BSc, 67 ; BSc (hons.), 44 ; MSc, 9. *Theol.* : BD, 5. PhD (all facs) 6.

**DIPLOMAS AWARDED (1958-59).** *Educn.*, 77. *palaeog.*, 2 ; *theol.*, 2.

**CERTIFICATES AWARDED (1958-59).** *Educn.*, 5. *French*, 9.

[Information compiled as at 7/4 60]

## UNIVERSITY COLLEGE OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF

Founded 1883

*Postal Address* : Cathays Park, Cardiff, Wales

*Telegrams* : Coleg, Cardiff

*Telephone* : Cardiff 20781

**PRESIDENT**—The Rt. Hon. THE LORD DYNEVOR

**TREASURER**—D. W. VAUGHAN

**PRINCIPAL**—A. STEEL, OBE, MA *Oxon.* & *Camb.*, LittD *Camb.*

**REGISTRAR**—E. R. EVANS, MA *Oxon.*

**LIBRARIAN**—R. J. BATES, MA *Oxon.*

## TEACHING STAFF

[† = Part-Time]

## Anatomy

	Prof.
Hughes, H., BA MB ChB <i>Liv.</i> , MSc	Sr. Lectr.
Moffat, D. B., MB BS <i>Lond.</i> , FRCS	Sr. Lectr.
Jacoby, F., MD <i>Berl.</i> , PhD <i>Birm.</i>	(Histol.) Sr. Lectr.
Craigmyle, M. B., MB ChB <i>Glas.</i>	(Anat. & Histol.) Sr. Lectr.
Irvine, G., MB ChB <i>Edin.</i>	Lectr.
Beck, F., MB ChB <i>Birm.</i>	Asst. Lectr.
Williams, T. H., MB ChB <i>Birm.</i>	Asst. Lectr.
† Demr.	

## Archæology

Atkinson, R. J. C., MA <i>Oxon.</i> , FSA	Prof.
Alcock, L., MA <i>Oxon.</i> , FSA	Lectr.
Jarrett, M. G., PhD <i>Durh.</i>	Asst. Lectr.

## Architecture

John, L., MA BArch <i>Liv.</i> , FRIBA	Lectr.
--	--------

## Biochemistry

Pryde, J., BSc <i>St. And.</i> , DSc	Prof.
Dodgson, K. S., PhD <i>Liv.</i>	Sr. Lectr.
Rose, F. A., BSc PhD	Lectr.
Lloyd, A. G., BSc PhD	Asst. Lectr.
† Res. Fellow	

## Botany

Asprey, G. F., MSc PhD <i>Birm.</i>	Prof.
Percival, Mary S., BSc <i>Edin.</i> , PhD	Sr. Lectr.
Benson-Evans, Kathryn, MSc, FLS	Lectr.
Arney, S. E., MA <i>Oxon.</i> (Plant Physiol.)	Lectr.
Hyde, H. A., MA <i>Camb.</i> , FLS	(Econ. Bot.) Hon. Lectr., Keeper of Bot. in Natnl. Museum
Lyon, A. G., BSc <i>St. And.</i> , PhD <i>Camb.</i>	Lectr.
Harvey, R., BSc, FLS	Lectr.
Tallack, C. C., BSc <i>Birm.</i>	Lectr.
Hill, E. C., MSc	(Microbiol.) Lectr.
Williams, Mrs. M. Ann, MSc	(Microbiol.) Lectr.
Callely, A. G., BSc PhD <i>Leeds</i>	(Microbiol.) Lectr.

## Chemistry

Evans, A. G., PhD DSc <i>Manc.</i> , FRIC	Prof.
Cullinane, N. M., DSc <i>N.U.I.</i> , MSc, FRIC	Sr. Lectr.
Pinder, A. R., BSc PhD <i>Sheff.</i> , DPhil <i>Oxon.</i>	(Org. C.) Sr. Lectr.
Chard, S. J. H., MSc, FRIC	Lectr.
Thorne, N., PhD	Lectr.
Thomas, J. H., PhD <i>Liv.</i>	Lectr.
Bayles, J. W., MA DPhil <i>Oxon.</i>	Lectr.
Phillips, G. O., PhD	Lectr.
Whittle, E., PhD <i>Manc.</i>	Lectr.
Houghton, R. P., PhD <i>Lond.</i>	Asst. Lectr.
Owen, E. D., PhD	Asst. Lectr.

## Classics

Rees, B. R., MA <i>Oxon.</i> , PhD	(Greek) Prof.
Moritz, L. A., MA DPhil <i>Oxon.</i>	(Latin) Prof.
Tetstall, R. G., MA <i>Camb.</i>	Lectr.
White, Sheila, BA <i>Liv.</i>	Lectr.
Thomas, Elizabeth, MA <i>Lond.</i> , BA	Lectr.
Walcot, P., PhD <i>Lond.</i> , MA <i>Yale</i>	Asst. Lectr.
Gardner, Jane F., MA <i>Glas.</i> , BA <i>Oxon.</i>	Asst. Lectr.

## Economics and Social Science

Thomas, B., OBE, MA PhD <i>Lond.</i>	Prof.
Jones, L., MA	Sr. Lectr.
Parris, S. C., BSc(Econ) <i>Lond.</i>	Lectr.
Maynard, G. W., BSc(Econ) <i>Lond.</i>	Lectr.
Crichton, Anne, MA <i>Liv.</i>	(Soc. Sci.) Lectr.
Wakeford, J., BA <i>Nott.</i>	(Soc. Sci.) Lectr.
Timms, N. W., MA <i>Lond.</i>	(Soc. Sci.) Asst. Lectr.
Pole, J. D., BA <i>Camb.</i>	(Econ.) Lectr.
Chaudhuri, P. M., BA	(Econ.) Asst. Lectr.
Ridgway, Gillian, BCom MSocSci <i>Birm.</i>	(Econ.) Asst. Lectr.
Mackeson, J. F., BA <i>Camb.</i>	(Law) Lectr.
Knight, M. T., LLB <i>Dub.</i>	(Law) Asst. Lectr.
Magee, C. C., BCom <i>Lond.</i> , FCA	(Accty.) † Lectr.
Gibbs, J. M., MA <i>Camb. &amp; Lond.</i>	(Psychol.) † Lectr.
† Res. Asst.	

## Education

Evans, E., MA <i>Oxon.</i> , BA	Prof.
Mulrenan, B. W., BA <i>Sheff.</i>	Lectr.
Simpson, E. B., MA BSc <i>Lond.</i>	Lectr.
Griffith, Mignon B.	(Art) Lectr.
Evans, L. Wynne, MEd <i>Durh.</i> , MA PhD	Lectr.
Bull, Beryl M., MA	Lectr.
Williams, Ethel M.	Lectr.
Thomas, H., BMus	Lectr.
Mathias, W. A., MA	Lectr.
Othen, C. W., MSc, FRIC	Lectr.
Pitts, R., MEd <i>Manc.</i> , MA	Lectr.
Davies, Rev. T. G., BA BSc	Lectr.
Davies, Nan, BA	Lectr.
Ashton, B. D., BA	Lectr.
Powell, J. D., BA	Sp. Lectr.

## Education, Collegiate Faculty of

Evans, R. H., MA <i>Oxon.</i>	Lectr., Sec.
Lecturers and Research Officers	
Evans, Kathleen M., MA BSc PhD <i>Lond.</i>	
Jones, C., BSc	
† Res. Asst.	

## Engineering

Gurney, H. C. H., MA <i>Camb.</i> , DSc <i>Lond.</i> , FIP, FRAeS	(Civil & Mech. E.) Prof.
---	--------------------------

- Williams, E., BEng PhD *Liv.* (Electr. E.) Prof.  
 Hutton, S. P., DEng *Liv.*, PhD *Lond.*  
 (Mech. E.) Prof.  
 Bannister, J. L., BScTech *Manc.*, MSc Sr. Lectr.  
 Ashwell, D. G., MA PhD *Camb.* Sr. Lectr.  
 Sheen, F. V., BSc Lectr.  
 Bray, R. O., BSc *Lond.* Lectr.  
 Davies, W., BSc PhD Lectr.  
 Trigg, C., MSc Lectr.  
 Powell, W. H., MSc Lectr.  
 Butler, L. H., MSc(Eng) *Lond.*, MSc, FIP Lectr.  
 Slyper, H. A., BSc *Durh.* Lectr.  
 Lewis, T. T., BSc Lectr.  
 Drury, R. D., BSc *Birm.* Lectr.  
 Thomas, J. G., PhD *Brist.* Lectr.  
 Thomas, W. F., PhD Lectr.  
 Brinkworth, B. J., MSc *Brist.* Lectr.  
 Porter, D. M., BSc Lectr.

### English Language and Literature

- Llewellyn, E. C., MA BLitt *Oxon.*, BA Prof.  
 Merchant, Rev. W. M., MA Sr. Lectr.  
 Thomas, R. G., MA PhD Sr. Lectr.  
 Klingopulos, G. D., MA *Camb.* Sr. Lectr.  
 Williams, Kathleen M., MA *Oxon.* Sr. Lectr.  
 Elliott, C., MA Lectr.  
 Quinn, H. M., BA BLitt *Oxon.* Lectr.  
 Brown, Eluned M., MA Lectr.  
 Evans, W. O., BLitt *Oxon.*, BA Asst. Lectr.  
 James, G. I., MA Asst. Lectr.

### French and Romance Philology

- Thomas, J. Heywood, DU*Paris*, MA Prof.  
 Morse, B. J., MA (Italian) Sr. Lectr.  
 Butler, P. F., LèsL *Lausanne*, PhD Sr. Lectr.  
 Spencer, R. H., BA *Leeds* Lectr.  
 Morris, Thelma, DU*Paris*, BA Lectr.  
 Sullivan, W. A., BA Asst. Lectr.  
 Jones, F. J., MA BLitt *Oxon.*, DU*Paris*  
 (Italian) Lectr.  
 Alessio, A., DottLet *Genoa* (Italian) Lectr.  
 Eyquem, R., LèsL *Bordeaux*  
 (French with Italian) Asst. Lectr.  
 Jones, Gwenda E., MA  
 (French with Italian) Asst. Lectr.  
 Jenkins, T. H., DU*Paris*, MA  
 (French with Italian) Asst. Lectr.

### Fuel Technology, see Metall. and Fuel Technol.

### Geology

- Anderson, J. G. C., MA DSc PhD *Glas.*, FGS Prof.  
 Blundell, C. R. K., BSc PhD, FGS Sr. Lectr.  
 Baker, J. W., BSc *Birm.*, FGS Lectr.  
 Lemon, G. G., BSc, FGS Lectr.  
 Appleby, M., PhD *Manc.*, FGS Lectr.  
 Bidgood, D. E. T., BA *Camb.* Asst. Lectr.  
 1 Res. Demr.

### German

- Williams, T. P., MA Prof.  
 Jones, Mrs. V. Isabel, MA *Edin.* Lectr.

- Gillespie, G. T., MA *Lond.* Lectr.  
 1 Lektor

### Hispanic Studies

- Reckert, S., PhD *Yale*, MLitt *Camb.* Prof.  
 Morris, C. B., MA *Manc.* Lectr.  
 Aguirre, J. M., LicenDerecho *Saragossa*  
 Asst. Lectr.  
 1 Lectora in Spanish ; 1 Leitor in Portuguese

### History

- Chrimes, S. B., MA *Lond.*, PhD LittD *Camb.* Prof.  
 Marshall, Dorothy, MA PhD *Camb.* Sr. Lectr.  
 Powell, I. B., BA Lectr.  
 Roots, I. A., MA *Oxon.* Lectr.  
 Loyn, H. R., MA Lectr.  
 Edwards, E. W., MA Lectr.  
 Williams, L. H., MA Lectr.  
 McCord, N., BA *Durh.*, PhD *Camb.* Asst. Lectr.  
 Knowles, G. H., BA PhD Asst. Lectr.  
 Temple, Nora C., BA PhD *Lond.* Asst. Lectr.  
 Henriques, Ursula, BA BLitt *Oxon.*, PhD *Manc.* Asst. Lectr.

### History of Wales

- Pierce, G. O., MA Prof.  
 Rowlands, E. I., MA Lectr.

### Industrial Relations

- Fogarty, M. P., MA *Oxon.* Prof.  
 Balfour, W. C., BSc(Econ) *Lond.*, MA Lectr.  
 Thomason, G. F., BA *Sheff.*, MA *Tor.* Lectr.  
 2 Res. Assts.

### Italian

- Morse, B. J., MA Sr. Lectr.  
 Jones, F. J., MA BLitt *Oxon.*, DU*Paris* Lectr.  
 Alessio, A. G., DottLet *Genoa* Asst. Lectr.

### Law

- Mackeson, J. F., BA *Camb.*  
 Lectr., Dir. of Legal Studies  
 Knight, M. T., LLB *Dub.* Asst. Lectr.

### Mathematics

- Cooper, J. L. B., BSc *Cape*, MA DPhil *Oxon.*  
 (Pure M.) Prof., Hd. of Dept.  
 Landsberg, P. T., DIC, MSc PhD *Lond.*  
 (Appl. M.) Prof.  
 Morris, Rosa M., PhD *Camb.*, BSc Sr. Lectr.  
 Chisholm, J. S. R., MA PhD *Camb.* Sr. Lectr.  
 Pope, A. H., MSc *Lond.* Lectr.  
 Hughes, N. J. S., MA PhD *Camb.* Lectr.  
 Gould, G. G., MA *Camb.*, PhD *Lond.* Lectr.  
 Edmunds, D. E., PhD Lectr.  
 Harris, D. J., BSc *Cape*, MA *Camb.* Lectr.  
 Lederer, G., BSc *Lond.* Asst. Lectr.  
 Rigby, J. F., MA PhD *Camb.* Asst. Lectr.  
 Morgan, D. J., BSc (Appl. M.) Asst. Lectr.

**Metallurgy and Fuel Technology**

Jones, W. R. D., DSc, FIM	Prof.
Evans, T., BSc <i>Lond. &amp; Wales</i> , FIP	
(Fuel Technol.)	Sr. Lectr.
Garwood, R. D., MSc	(Metall.) Sr. Lectr.
Carpenter, D. L., BSc PhD	
(Fuel Technol.)	Lectr.
Wilson, A. J. C., MSc <i>Dal.</i> , PhD <i>Camb.</i> & <i>M.I.T.</i> , FIP (X-ray Metallography)	Lectr.
Rawlings, R., PhD, FIM	Lectr.
Taylor, J. L., BSc	Lectr.
† Res. Demr.	

Grant, D. F., PhD <i>Durh.</i>	Lectr.
Vousden, P., PhD <i>Brist.</i>	Lectr.
Young, C. L., BSc, FIP	† Lectr.
2 Res. Assts.	

**Physiology**

Peterson, J. M., DSc <i>Aberd.</i>	Prof.
Jordan, R. C., PhD DSc <i>Lond.</i>	Sr. Lectr.
Waters, E. T., PhD DSc	Sr. Lectr.
Stone, S. L., MSc MB BCH	Sr. Lectr.
Beswick, W. F., BSc MB BCH	Lectr.
Davies, H. E. F., MD <i>Lond.</i>	Lectr.

**Semitic Languages**

Johnson, A. R., Hon. DD <i>Edin.</i> , PhD, FBA	Prof.
Rowlands, Rev. E. R., BA <i>Camb.</i> , MA	Lectr.
Ryder, Rev. E. T., MA <i>Oxon.</i> , BD <i>Lond.</i>	Lectr.
Griffiths, Rev. D. R., MA <i>Oxon.</i> , MTh <i>Lond.</i>	Lectr.

**Spanish, see Hispanic Studies****Welsh**

Jarman, A. O. II., MA	Prof.
Lewis, C. W., BA	Lectr.
Rowlands, E. I., MA	Lectr.
Lewis, A., MA	Lectr.
Thomas, Ceinwen II., PhD <i>N.U.I.</i> , MA (Dialectology) Asst. Lectr.	

**Zoology and Comparative Anatomy**

Brough, J., DSc <i>Manc.</i>	Prof.
Jefferson, G. T., BSc <i>Lond.</i> (Entomol.)	Lectr.
Evans, W. A. L., BSc <i>Birm.</i> , MSc PhD	Lectr.
Erasmus, D. A., BSc PhD	Lectr.
Staddon, B. W., BSc PhD <i>Durh.</i>	Lectr.
Williams, H. H., PhD	Asst. Lectr.
Thompson, T. E., PhD	Asst. Lectr.
Claridge, M. F., MA DPhil <i>Oxon.</i>	Asst. Lectr.

**UNIVERSITY EXTENSION**

.....	Dir. of Extra-Mural Studies
Organizing Tutors	
I. Morgan, MA (Tutor-in-Charge); V. H. Jones, LLB <i>Lond.</i> , BA; M. R. Hausheer, BA; W. C. E. Gregory, MA <i>Camb.</i>	
Staff Tutor: E. Hodges	
40 Tutors	

**Mining**

Sinclair, J., MEng PhD <i>Sheff.</i>	Prof.
Probert, L., BSc	Lectr.
Powell, W. H., MSc PhD	Lectr.
Brown, K., BSc	Lectr.
Platt, J., PhD	Lectr.
Potter, R. D., BSc	Lectr.

**Music**

Morgan, J., DMus, FRCO	Prof.
Bruce, I. M., MA MusBac <i>Edin.</i>	Sr. Lectr.
Pygott, P.	Lectr.
Collier, D. G., MMus	Lectr.
Bruce, R., DFC, MusBac <i>Edin.</i>	Lectr.
Hoddinott, A., BMus	Lectr.
Wang, A.	(Violin) Teacher
Mutter, G. N.	(Viola) Teacher
Isaac, G.	(Cello) Teacher
Popperwell, S., MA <i>Camb.</i>	(Violin) Teacher
And teachers of Singing, Pianoforte, Organ and all orchestral instruments	

**Philosophy**

de Selincourt, O., MA <i>Oxon.</i>	Prof.
Evans, J. LL., MA DPhil <i>Oxon.</i>	Sr. Lectr.
Brunton, J. A., MA <i>Oxon.</i>	Lectr.
Palmer, N. II., MA <i>Oxon.</i>	Asst. Lectr.

**Physics**

Wilson, A. J. C., MSc <i>Dal.</i> , PhD <i>Camb.</i> & <i>M.I.T.</i> , FIP	Prof.
Hughes, J. W., PhD, FIP	Sr. Lectr.
Rogers, D., PhD <i>Lond.</i> , FIP	Sr. Lectr.
Harker, G. F. H., MA <i>Camb.</i>	Lectr.
Rowland, E. N., MA PhD <i>Camb.</i>	
(Theoret. P.)	Lectr.
Wood, R. G., MSc <i>Manc.</i> , FIP	Hon. Lectr.
Howells, R. G., MSc	Lectr.

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Registrar: Aeron Lewis. Bursar: W. J. Davey. Warden of Aberdare Hall: Miss Barbara E. How, MA *Oxon.* Warden of University Hall:

R. D. Cameron, MA *Oxon.* College Appts. & Advisory Officer: W. H. Morgan, BSc(Econ) *Lond.*, BSc. Asst.: Lore Fraser.

**ASSOCIATED INSTITUTIONS**

WELSH NATIONAL SCHOOL OF MEDICINE (see p. 1218) and the WELSH COLLEGE OF ADVANCED TECHNOLOGY, Cardiff (tel.: Cardiff 31546; Principal: A. Harvey, PhD BSc, FIP). These

two institutions are associated with the coll. in preparing candidates for the BPharm, and the latter institution also in preparing candidates for the BArch. See below under 'Degrees'.

## GENERAL INFORMATION

Opened in 1883 and incorporated by royal charter in 1884, this is now one of the constituent colls. of the Univ. of Wales. In 1931 a supplemental charter was granted to the coll. and a charter of incorporation to the Welsh Natnl. Sch. of Med.

**INCOME** (1958-59). Total income, £612,999 (univ. grant, 79.3 per cent.; endowments, 1 per cent.; tuition fees, 15.5 per cent.; other sources, 3.5 per cent.).

**FACULTIES AND DEANS.** *Arts*, Prof. S. B. Chrimes (hist.); *educn.*, Prof. E. Evans; *sci.*, Prof. A. J. C. Wilson (phys.); *theol.*, Prof. A. R. Johnson (Semitic langs.); *music*, Prof. J. Morgan.

**LIBRARY.** Drapers' Co.'s libr., 165,000 vols.

**MUSEUMS.** Anat., zool. The Natnl. Museum of Wales (art, archæol., zool., geol., bot.) is located in an adjacent bldg.

**LABORATORIES.** Physical res., with comprehensive equipment for X-ray diffraction investigation, etc.; engin. (including 100-ton testing machine); and usual sci. and med. res. labs.

**ADMISSION.** Classes are open to both men and women students of not less than 17 yrs. on Oct. 1 of the session of admission. Those wishing to read in the coll. for a degree of the Univ. of Wales must satisfy the univ. admission requirements. See Appendix II.

**FIRST DEGREES** (of Univ. of Wales). Candidates are prepared for the following initial degrees of the univ. (see p. 1197): BA, BMus, BSc (3 yrs. each), and in part for the degrees of BArch (6 yrs.) and BPharm (4 yrs.). Med. students preparing for the MB BCh (6 yrs.) of the univ. pursue their prelim. med. studies at the coll. and their clin. studies at the Welsh Natnl. Sch. of Med. The 1st part of the course for the BArch of the univ., occupying 1 yr., can be pursued at the coll., while the 2nd part, occupying 5 yrs., is pursued at the Welsh Sch. of Archit. in the Welsh Coll. of Advanced Technol., Cardiff. Candidates preparing for the BPharm of the univ. are enrolled and pursue their studies at the coll. for the initial period of their course, and continue their trg. partly at the coll., the Welsh Natnl. Sch. of Med. and the Welsh Sch. of Pharmacy in the Welsh Coll. of Advanced Technol., Cardiff.

Full-time residence is required of all candidates for a first degree.

**HIGHER DEGREES.** Res. facilities and postgrad. courses of study are provided for candidates for higher degrees of the univ. (see p. 1198) and other univs.

**DIPLOMAS.** *Univ. dipls.*: educn., 1 yr. postgrad.; theol., 3 yrs. *Coll. dipls.*: metalliferous mining, metall., each 3 yrs.; music, personnel management, soc. sci., each 2 yrs. After graduation in certain subjs., suitably qualified students

desirous of securing a dipl. in their sp. subj. may be awarded one without further study, while in other cases a grad. may be awarded such a dipl. after pursuing a modified course for 1 yr.

**SCHOLARSHIPS.** Numerous scholps. out of trust funds are awarded for competition at entrance, and after one or more yrs.' residence other scholps. and prizes are awarded for meritorious work. (Details in college *Prospectuses* obtainable from the registrar.)

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**FEES.** See under Univ. of Wales, *above*.

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', *above*.) Hostel for women: Aberdare Hall, Cathays Park, Cardiff (tel.: Cardiff 21877), accomm. for 133, fees £145. Hostels for men: University Hall, Ty Gwyn Rd., Cardiff (tel.: Cardiff 45641), accomm. for 218, fees £145. Tlandaff House, Earl Rd., Penarth, Glam. (tel.: Penarth 57995) (The Rev. the Warden), accomm. for 38, fees £130. Board and lodging in Cardiff can be obtained from £3 per week.

**STUDENT WELFARE.** Students seeking advice on lodgings in Cardiff and on careers in their last yr. are advised to consult the coll. appts. and advisory officer, 51 Park Place, Cardiff (tel.: Cardiff 29802) (see 'Admin. and Other Staff', *above*). New students from overseas are especially advised to see him as soon as possible after their arrival in Cardiff.

**STUDENT HEALTH SERVICE.** See under Welsh Natnl. Sch. of Med., *below*.

**STUDENT ATHLETIC FACILITIES.** Playing grounds are provided for most field sports, as well as facilities for swimming and rowing. A few grass-tennis courts are sited at the coll. A modern well-equipped gymnasium in its own building (49 Park Place, Cardiff) is also provided for the exclusive use of students. There is a lectr. in physical trg. for men and one for women, who act as coll. advisers in physical trg. and games.

**STUDENTS' UNION.** The union bldg in Dumbries Place, Cardiff (tel.: Cardiff 20913), provides for the social and cultural life of the student body; it has a refectory which is sometimes used for dances, lounges and games rooms, and it houses the headquarters of the students' union. Every student is required to pay a union amalgamation fee of £5:5s. (£6:2s.:6d. for med. students), which compounds for membership of the students' union soc. and of all student clubs and socs. affiliated to it. (Student publicns. are the *Broadsheet* and *Cap and Gown*.)

**ADULT EDUCATION** (for staff, see 'University Extension', *above*). A number of resident tutors and a staff tutor, aided by a panel of suitably qualified pt.-time teachers, provide an educn. service in liberal studies for the adult population

of the coll. area. A section of the coll. library is devoted to the service of the classes, providing multiple copies of selected text-books on a wide range of topics. This branch of coll. work has its office at 31 Corbett Rd., Cardiff (tel.: Cardiff 26071).

PUBLICATIONS. *Annual Report of Coll. Council and Statement of Coll. Accounts* (Oct.); *Admission of Students* (terms of) (Oct.); *General Prospectus* (with syllabuses of study) (March); *Pharmacy Prospectus* (May); *Entrance Scholarships Prospectus* (Oct.); *Calendar* (triennially).

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Richard Thomas & Baldwins Ltd., £11,673; Steel Co. of Wales Ltd., £11,662; Guest Keen & Nettlefolds Ltd., £12,500.

(Total value of all benefactions received: £66,156.)

RETIREMENT. Edith M. Sheppard (zool.).

RESIGNATIONS. I. M. Campbell (Latin), apptd. to chair of humanity, Edin.; K. Urwin (French), apptd. executive sec., Assocn. of Univ. Teachers.

DEATH. Dr. S. T. Bowden (sr. lectr. in chem.).

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1340	44
Women . . .	598	31
Total . . .	1938	75

Distribution by Faculties, etc. *Appl. sci.*, 275;

*archit.*, 6; *arts*, 877; *med.*, 155; *music*, 49; *pharm.*, 73; *pure sci.*, 537; *theol.*, 41.

*Included in the figures above are —*

New admissions, 715.

Students from other countries, 100. (Countries from which largest numbers came: Iraq, 36; Nigeria, 9; Kenya, 8; India, 7).

DEGREES AWARDED (by Univ. of Wales) (1958-1959). *Archit.*: BArch, 1. *Arts*: BA, 167; MA, 2. *Med.*: MB BCH, 54; MCh, 2; MD, 5. *Music*: BMus, 5; MMus, 5; DMus, 1. *Pharm.*: BPharm, 13. *Sci.*: BSc, 147; MSc, 3; PhD, 16. *Theol.*: BD, 2.

DIPLOMAS AWARDED (1958-59). *By Univ. of Wales*: teacher's dipl. in educn., 116; theol., 5. *By coll.*: music, 2; soc. sci., 17; personnel management, 11; metall. mining, 7.

CERTIFICATES AWARDED (1958-59). *By Univ. of Wales*: teacher's cert. in educn., 3.

[Information compiled as at 30/8/60]

## UNIVERSITY COLLEGE OF SWANSEA

Founded 1920

*Postal Address*: Singleton Park, Swansea, Wales

*Telephone*: Swansea 56172

PRESIDENT—The Rt. Hon. THE VISCOUNT TENBY OF BULFORD

CHAIRMAN OF THE COUNCIL—Sir LEWIS JONES, JP, LLD

TREASURER—P. O. WILLIAMS, CBE

PRINCIPAL—J. H. PARRY, CMG, MBE, MA PhD *Camb.*

REGISTRAR—J. McINTYRE, MA *Glas.*

LIBRARIAN—F. J. W. HARDING, MC, MA BLitt *Oxon.*, FLS, FRHistS

## TEACHING STAFF

**Botany**

Street, H. E., PhD DSc *Lond.* Prof.  
 Isaac, I., PhD *Camb.*, BSc, FLS Sr. Lectr.  
 Goodman, G. T., MSc Lectr.  
 Hayward, J., BSc PhD Lectr.  
 Brown, E. G., BSc PhD *Liv.* Lectr.  
 Smith, A. J. E., BA *Oxon.* Asst. Lectr.  
 1 Res. Fellow, 1 Demr.

**Chemical Engineering**

Richardson, J. F., DIC, BSc(Eng) PhD *Lond.* Prof.  
 Lee, J. C., MA PhD *Camb.* Lectr.  
 Smith, J. M., MScTech *Manc.* Lectr.  
 Wood, R. M., BSc *Leeds*, PhD *Camb.* Lectr.  
 Thomas, W. J., PhD *Lond.*, BSc Lectr.

**Chemistry**

Hassall, C. H., MSc *N.Z.*, PhD *Camb.*, FRIC Prof.  
 Long, D. A., MA DPhil *Oxon.* Sr. Lectr.  
 Davies, R. H., MSc Lectr.  
 Summers, G. H. R., MSc PhD Lectr.  
 Hallam, H. E., PhD *Lond.*, MSc Lectr.  
 Curtis, R. F., BSc PhD *Brist.* Lectr.  
 Stedman, G., BSc PhD *Lond.* Lectr.  
 Gallagher, K. J., BSc PhD *Belf.* Lectr.  
 Schofield, J. A., BScTech PhD *Manc.* Lectr.  
 Cross, J. R., DPhil *Oxon.*, BSc Supt. of Labs.  
 2 Res. Fellows, 2 Demrs.

**Classics**

Kerferd, G. B., BA *Melb.*, MA *Oxon.* Prof.  
 Hill, H., MA *Sheff.* Sr. Lectr.  
 Moorhouse, A. C., MA *Camb.*  
 (on leave) Sr. Lectr.  
 Griffiths, J. G., DPhil *Oxon.*, MA *Liv.*, BA Sr. Lectr.  
 Smyth, W. R., MA *Dub.* Lectr.  
 Mitchell, M. E., BA *Camb.* Temp. Asst. Lectr.

**Economics**

Morgan, E. V., MA *Camb.* Prof.  
 Roberts, R. O., MA Sr. Lectr.  
 Bell, I. C., MA Lectr.  
 Rees, G. L., MA Lectr.  
 Cleary, E. J., BA *Manc.* Lectr.  
 Baird, W., MA *Edin.* Asst. Lectr.  
 Thomas, W. A., BSc(Econ) *Lond.* Temp. Tutor

**Education**

Gittins, C. E., MA Prof.  
 Stephens, D. J., MSc Lectr., Master of Method  
 Lewis, Edith A., MSc PhD Lectr., Mistress of Method  
 Dale, R. R., MA *Liv.*, MEd *Leeds* Lectr.  
 Jones, T. G. J., MSc Lectr.  
 Jones, V., BA (Phys. E.) Lectr.  
 Webster, J. R., MA PhD Lectr.  
 Millward, E. G., MA Lectr.

Smith, A. J., MA Lectr.  
 Brown, A. (Speech Trg.) Lectr.  
 Rothera, H., MA *Manc.* Lectr.  
 Chazan, M., BA *Lond.* & *Wales*, MA *Birm.* (Educnl. Psychol.) Lectr.  
 Spolton, I., BSc *Lond.*, MEd *Nott.* Lectr.

**Engineering**

..... (Civil E.) Prof.  
 Fishwick, W., MA PhD *Camb.* (Electr. E.) Prof.  
 Macmillan, R. H., MA *Camb.*, MIMechE (Mech. E.) Prof.  
 Caswell, J. S., MSc, MIMechE (Mech. E.) Sr. Lectr.  
 Rockey, K. C., MSc PhD *Lond.* (on leave) (Civil E.) Sr. Lectr.  
 Daniels, T. C., MSc Lectr.  
 Sandover, J. A., DIC, BSc *Lond.*, PhD *Edn.* Lectr.  
 Dickinson, H., BScTech *Manc.* Lectr.  
 MacCormack, J., BSc Lectr.  
 Gosling, H. W., BSc *Lond.* Lectr.  
 Townsend, W. G., BSc PhD Lectr.  
 Davies, J. D., MSc(Eng) *Lond.* Lectr.  
 Evans, H. E., BSc PhD Lectr.  
 Davies, T. H., MA *Camb.* Lectr.  
 Christie, D. M. E., MSc *Durh.*, BSc Lectr.  
 Preece, B. W., BSc *Brist.* Asst. Lectr.  
 Griffiths, R. T., BSc *Brist.* Asst. Lectr.  
 Phillips, V. J., DIC, BSc(Eng) PhD *Lond.* Asst. Lectr.  
 1 Res. Fellow

**Engineering, Chemical, see Chem. Engin****English**

Kinsley, J., MA *Oxon.*, MA PhD DLitt *Edn.* Prof.  
 Bartley, J. O., DLitt *Belf.* Sr. Lectr.  
 Westcott, Isabel M., BA *Brist.*, BLitt *Oxon.* Lectr.  
 Sims, D. L., BA *Oxon.* Lectr.  
 Amis, K. W., MA *Oxon.* Lectr.  
 Dawson, S. W., MA *Manc.* Lectr.  
 Fowler, A. D. S., MA *Edin.* & *Oxon.*, DPhil *Oxon.* Lectr.  
 Erskine-Hill, H. H., BA PhD *Nott.* Temp. Tutor

**French**

Knight, R. C., MA *Oxon.*, Dèsl. *Paris* Prof.  
 George, F. W. A., BA PhD *Lond.* Lectr.  
 Mylne, Vivienne G., BA *Oxon.*, PhD *Lond.* Lectr.  
 Lewis, R. A., MA Lectr.  
 Harry, Patricia M., MA *Manc.* Temp. Tutor

**Geography**

Balchin, W. G. V., MA *Camb.*, PhD *Lond.*, FRMetS Prof.  
 Oliver, J., BA *Brist.*, FRMetS Sr. Lectr.

Groom, Gillian E., BSc <i>Birm.</i> , FGS	Lectr.	Singer, A. R. E., BSc PhD <i>Birm.</i>	
Malang, D. H., BA PhD <i>Durh.</i> , FRMetS	Lectr.		(Phys. Met.) Prof.
Courens, S. H., MA PhD <i>Camb.</i>	Lectr.	Dennison, J. P., PhD <i>Leeds</i>	Lectr.
Manners, G., MA <i>Camb.</i>	Lectr.	Greenough, A. P., MA <i>Camb.</i>	Lectr.
Davies, H. R. J., MA <i>Oxon.</i>	Asst Lectr.	Davies, D. E., MA PhD <i>Camb.</i> , BSc	Lectr.
Humphrys, G., BSc <i>Brist.</i> , MA <i>McG.</i>		Davies, P. W., BSc PhD	Asst. Lectr.
	Asst. Lectr.	Wilshire, B., BSc	Asst. Lectr.
Henderson, H. J. R., BSc <i>Sheff.</i> , MA <i>Liv.</i>	Temp. Tutor		

1 Map Curator & Cartographer

### Geology

Rhodes, F. H. T., BSc PhD <i>Birm.</i> , FGS	Prof.
Simpson, B., MSc <i>Liv.</i> , FGS	Sr. Lectr.
Owen, T. R., MSc, FGS	Sr. Lectr.
Walmsley, V. G., BSc <i>Manc.</i> , PhD, FGS	Lectr.
Bloxam, T. W., BSc <i>Edin.</i> , PhD <i>Glas.</i> , FGS	Lectr.
Kelling, G., BSc PhD <i>Edin.</i> , FGS	Lectr.
Hooper, P. R., BSc <i>St.And.</i> , PhD <i>Birm.</i>	Lectr.

### German

Wardson, H. M., MA <i>Birm.</i> , DrPhil <i>Leip.</i>	Prof.
Taylor, R. J., MA <i>Lond.</i>	Sr. Lectr.
Thorlby, A. K., MA <i>Camb.</i> , PhD <i>Yale</i>	Lectr.

### History

Williams, G., MA	Prof.
Minchinton, W. E., BSc(Econ) <i>Lond.</i>	Sr. Lectr.
Masterman, N. C., MA <i>Camb.</i>	Lectr.
Walker, D. G., BA <i>Brist.</i> , DPhil <i>Oxon.</i>	Lectr.
Jones, I. G., MA	Lectr.
Chamberlain, Muriel E., MA <i>Oxon.</i>	Lectr.
Greenway, W., MLitt <i>Camb.</i> , BA	Asst. Lectr.
Morgan, K. O., MA DPhil <i>Oxon.</i>	Asst. Lectr.

### Mathematics, Applied

Oldroyd, J. G., MA PhD ScD <i>Camb.</i>	Prof.
Evans, G. W., MA PhD <i>Camb.</i>	Lectr.
Walters, T. S., MSc	Lectr.
Wilkinson, J., MA PhD <i>Camb.</i>	Lectr.
Jones, J. R., BSc PhD	Lectr.

### Mathematics, Pure

Wilson, R., MA DSc <i>Oxon.</i>	Prof.
Foulkes, H. O., DSc	Sr. Lectr.
Godwin, H. J., MA <i>Camb.</i>	Sr. Lectr.
Keogh, F. R., BSc <i>Manc.</i> , PhD <i>Camb.</i>	Sr. Lectr.
Zarembka, S. K., MgrPhil <i>Cracow.</i> , DrPhil(Maths) <i>Vilna</i>	Sr. Lectr.
Brennan, J. G., MSc	Lectr.
Landen, C. N., PhD <i>Camb.</i> , MSc	Lectr.
Petersen, G. M., MA <i>Stan.</i> , PhD <i>Tor.</i>	Lectr.
Evans, I. G., MSc	Lectr.
Davies, I. J., BSc PhD	Temp. Asst. Lectr.

### Metallurgy

O'Neill, H., MMet <i>Sheff.</i> , DSc <i>Manc.</i> , FIM	Prof., Hd. of Dept.
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### Philosophy

Jones, J. R., DPhil <i>Oxon.</i> , MA	Prof.
Holland, R. F., MA BPhil <i>Oxon.</i>	Sr. Lectr.
Winch, P. G., BA BPhil <i>Oxon.</i>	Sr. Lectr.
Rhees, R., MA <i>Edin.</i>	Lectr.
Plowman, D. E. G., BA <i>Oxon.</i> , MA <i>Calif.</i>	(Psychol.) Lectr.
.....	Temp. Tutor

### Physics

Llewellyn-Jones, F., MA DPhil DSc <i>Oxon.</i> , FIP	Prof.
Davidson, P. M., BA <i>Camb.</i> , PhD <i>Lond.</i>	Sr. Lectr.
Hopkins, M. R., MSc PhD, FIP	(Metal Phys.) Sr. Lectr.
Wright, L., MSc <i>Sheff.</i> , FIP	Lectr.
Griffin, L. R., MSc <i>Lond.</i>	Lectr.
Dutton, J., PhD	Lectr.
Morgan, C. G., MSc PhD	(Ionization Phys.) Lectr.
Miles, H. T., BSc PhD	Lectr.
Thomas, K. A., BA <i>Oxon.</i>	Asst. Lectr.
George, H. E., MA <i>Oxon.</i> , BSc <i>Lond.</i>	Temp. Asst. Lectr.
Davies, D. F., MA <i>Oxon.</i>	Sr. Tutor

### Political Theory and Government

Rees, J. C., MA <i>Camb.</i> , BSc(Econ) <i>Lond.</i>	Prof.
Stacey, F. A., MA <i>Camb.</i> , BPhil <i>Oxon.</i>	Lectr.
Lively, J. F., BA <i>Camb.</i>	(Govt.) Lectr.

### Social Science

Jones, R. H., BSc(Econ) <i>Lond.</i> , MA <i>Liv.</i>	Dir.
Walker, Muriel C., BA <i>Manc.</i>	Tutor
Matthews, Joan E., BSc(Soc) <i>Lond.</i>	Tutor
Lochhead, A. V. S., MA <i>Oxon.</i>	Lectr.
Leaper, R. A. B., MA <i>Camb.</i>	Lectr.
Rollings, P. J., BSc(Soc) <i>Lond.</i>	(Social Psychol.) Lectr.
Rosser, K. C., BA <i>Camb.</i> , PhD <i>Lond.</i>	Sr. Res. Officer
Harris, C. C., BA <i>Oxon.</i>	Jr. Res. Officer
Parsons, P. L., BSc MB BCH DPM	Med. Res. Officer

### Welsh

Williams, S. J., MA DLitt	Prof.
Bevan, T. H., MA	Sr. Lectr.
Evans, D. E., MA	Lectr.
Harries, W. G., BA	Lectr.



**Zoology**

Knight-Jones, E. W., DPhil *Oxon.*, BSc Prof.  
 Macfadyen, A., MA *Oxon.* Lectr.  
 Naylor, E., BSc *Sheff.*, PhD *Liv.* Lectr.  
 Kemp, R. F. O., BA *Oxon.*  
 (Genetics) Asst. Lectr.  
 King, P. E., BSc PhD *Hull* Asst. Lectr.  
 1 Demr., 1 Res. Fellow

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 Dir. of Extra-Mural Studies  
 Jones, T. G., MSc(Econ) *Lond.*, BA Staff Tutor  
 Lewis, G. I., BA Staff Tutor  
 Thomas, T. W., BA Staff Tutor  
 Williams, J. E., BA Staff Tutor  
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HIGHER DEGREES (of Univ. of Wales). MA, MSc, PhD, DLitt, DSc. *See* p. 1198.

DIPLOMAS. *Univ. dipl.*: teacher's dipl. in educn., 1 yr. postgrad. *Coll. dipls.*: soc. welfare (for overseas students), youth leadership & organization, each 1 yr.; soc. sci., 2 yrs. (suitably qualified grads. may be allowed to complete the course in 1 yr.); cartography, mathl. statistics & computational analysis, each 1 yr. postgrad.; mathl. phys., 2 yrs. postgrad.

RESEARCH. All depts. of the coll. have facilities for postgrad. and res. work, and the respective profs. are always prepared to advise students wishing to undertake res.

TEACH. *See under* Univ. of Wales, *above*.

ACADEMIC YEAR. Oct. to June, 3 terms of 10½ weeks each.

ADULT EDUCATION (*see also* 'Teaching Staff', *above*). The coll. has an extensive scheme of extra-mural work. The jt. tutorial classes cttee. arranges for the provision of tutorial and sessl. classes and univ. extension courses. The L.R.A.S. and W.E.A. are represented on this cttee.

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STUDENT HEALTH SERVICE. *See under* Welsh National Sch. of Med., *below*.

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## THE YEAR 1959

PRINCIPAL BENEFACTIONS. Donations and annual subs. amounting to £40,306.

RETIREMENTS. Olive M. Busby (librarian); Dr. P. A. Little (zool.).

RESIGNATIONS. Principal J. S. Fulton, apptd. principal, U.C. of Sussex; G. M. Brown (phys.), apptd. lectr. in phys., U.C. of Wales, Aberystwith; Prof. E. S. Sellers (chem. engn.), apptd. to post in industry; Dr. W. L. Wilkinson (chem. engn.), apptd. to post with Atomic Energy Authority; Dr. D. G. Dugdale (engn.), apptd. to res. associateship, Illinois Inst. of Technol.

DEATH. Emer. Prof. Florence A. Mockridge (tbl. of biol. dept., 1921; prof. of bot., 1936-54).

### Statistics

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(as at the beginning of the academic year)

	Full-Time	Part-Time
Men	1078	34
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[Information compiled as at 12.9.61]

## WELSH NATIONAL SCHOOL OF MEDICINE, CARDIFF

Incorporated by Royal Charter 1931

*Postal Address* : 34 Newport Road, Cardiff, Wales

*Telephone* (Provost and Secretary) : Cardiff 28434

PRESIDENT—SIR CLEMENT PRICE THOMAS, KCVO, LL.D, FRCP, FRCS

PROVOST—A. TREVOR JONES, MD *Lond.*, FRCP

VICE-PROVOST—PROFESSOR A. S. DUNCAN, DSC, MB ChB *Edin.*, FRCSEd, FRCOG

DEAN OF CLINICAL AND POSTGRADUATE STUDIES—A. G. WATKINS, MD *Lond.*, BSc, FRCP

HON. TREASURER—SIR FREDERICK J. ALBAN, CBE, LL.D

SECRETARY—F. DODSWORTH, FCIS

LIBRARIAN—ELUNED L. JONES

### TEACHING STAFF

[†=Part-Time ; (C)=Clinical Teacher]

(For subjects of first 3 yrs.—Anat.,  
etc., see Univ. Coll., Cardiff)

#### Anæsthetics

Mushin, W. W., MA <i>Oxon.</i> , MB BS <i>Lond.</i> , FFARCS	Prof., Dir.
Musgrove, A. H., FFARCS	†(C)
Jones, I. R., FFARCS	†(C)
Roberts, Barbara C., BSc MB BCH, FFARCS	†(C)
Picken, D. K. W., BSc MB BCH, FFARCS	†(C)
Lake, R. H. N., MB BS <i>Lond.</i> , FFARCS	†(C)
Galloon, S., MB ChB <i>Cape T.</i> , FFARCS	†(C)
Thompson, P. W., MB BChir <i>Camb.</i> , FFARCS	†(C)
Mapleson, W. W., BSc PhD <i>Durh.</i>	Res. Asst.

**Bacteriology**, see Pathol.

#### Child Health

Watkins, A. G., MD <i>Lond.</i> , BSc, FRCP	Prof.
Gray, O. P., MB ChB <i>Birm.</i>	Sr. Lectr.
Laurence, K. M., MA <i>Camb.</i> , MB ChB <i>Liv.</i> (Paediatric Pathol.)	Sr. Lectr.
Bray, P. T., BSc MB BCH	†Lectr.
Jacobs, J., MD <i>Lond.</i>	†Lectr.
Richards, Frances M., BSc MB BCH	Res. Asst.

#### Dental Surgery

Murray, A. L.	†(C)
Smith, J. I., LDS <i>Liv.</i>	†(C)
Brown, G. M. A.	†(C)

#### Dermatology

Hodgson, G. A., MBE, MA DM <i>Oxon.</i>	†Lectr.
Waddington, E., MD <i>Lond.</i>	†(C)

#### Forensic Medicine and Toxicology

James, W. R. L., BSc MD	(Forensic Med.) Sr. Lectr.
Payne, E. E., BSc MD	(Forensic Med.) Lectr.
Graham, J. D. P., BSc MD <i>Edin.</i> , FRCP, FRFSGlas	(Toxicol.) Lectr.

#### Geriatrics

Thomas, G. F. J., DPH	†(C)
-----------------------	------

#### Hygiene and Public Health

Grundy, F., MD ChB <i>Leeds</i> (Preventive Med.)	Mansel Talbot Prof.
Hitchens, R. A. N., MD DPH	†Sr. Lectr.
Bevan, R. T., MD DPH	†Lectr.
Phillips, W. P., DPH	†Lectr.
Lewis-Fanning, E., DSc PhD <i>Lond.</i>	Statistician
Davies, Mary E.	Health Visitor Tutor

#### Infectious Diseases

#### Medicine

Scarborough, H., MB ChB PhD <i>Edin.</i> , FRCP, FRCPEd	Prof., Du
James, A. H., MA DM <i>Oxon.</i> , MD <i>Tor.</i>	Sr. Lectr., Asst. Du

Fourman, P., DSc MD  *Lond.*, FRCP Sr. Lectr.  
 Shuster, S., MB BS PhD  *Lond.* Lectr.  
 Phillips, W., MD, FRCP †(C)  
 Howells, L. H., MD  *Lond.*, FRCP †(C)  
 Jones, I. G., MD  *Lond.* †(C)  
 Williams, D. A., MSc MD, FRCP †(C)  
 Evans, B., MD  *Lond.*, FRCP †(C)  
 Thomas, A. J., MD DPH †(C)  
 Spillane, J. D., MD BSc, FRCP (Neurol.) †Lectr.  
 Ball, J. D., MB BS  *Lond.* †(C)  
 Gilson, J. C., OBE, MA MB BChir  *Camb.* †Hon. Clin. Teacher

### Obstetrics and Gynæcology

Duncan, A. S., DSc, MB ChB  *Edin.*, FRCSEd, FRCOG Prof.  
 Lawson, J. G., MD  *St. And.* Sr. Lectr.  
 Maliphant, R. G., MD  *Lond.*, FRCS, FRCOG †Lectr.  
 Evans, M. D. A., MD, FRCSEd, FRCOG †Lectr.  
 John, A. H., MB BS  *Lond.* Lectr.  
 Cummin, R. C., MB BCh †(C)  
 Grant, Mrs. Joyce F. †Demr.  
 Phillips, Mrs. Grace M. †Demr.

### Ophthalmology

Parry, R. J., MB BS  *Lond.*, FRCSEd †(C)  
 Gluck, B., MA MB MCh  *Dub.*, FRCSEd †(C)  
 Graham, M. V., MB BCh, FRCS, FRCSEd †(C)

### Oto-Rhino-Laryngology

Owen, R. D., BSc, FRCS, FRCSEd †Lectr.  
 Thomas, H. A., BSc MB BCh, FRCSEd †(C)  
 Thomas, J. A. R., BSc MB BCh, FRCS †(C)

### Pathology and Bacteriology

Gough, J., BSc MD Prof., Dir.  
 Thomson, S., DPH  *Edin.*, MD, FRCP (Bacteriol.) †Prof.  
 . . . . . (Pathol.) Sr. Lectr.  
 Whaley, H. J., BSc MD  *Sheff.* (Pathol.) Sr. Lectr.  
 Holman, R. A., MD  *Leeds* (Clin. Bacteriol.) Sr. Lectr.  
 . . . . . Haematologist, Sr. Lectr.  
 Leopold, J. G., MB BCh (Pathol.) Lectr.  
 Jones, J. Howard, MD Blood Trans. Officer  
 Withey, J. L., MB BS  *Lond.* (Clin. P.) Lectr.  
 Callaghan, P., BSc MB BCh Bacteriologist  
 Dauncey, T. M., MB ChB  *Birm.* Asst. Lectr.  
 Hughes, R. T., MB BS  *Lond.* Asst. Lectr.  
 Payne, R. B., MB BCh Asst. Clin. Pathologist  
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 Drummond, R. J. †Hon. Clin. Teacher  
 Keyser, J. W., PhD MSc  *Lond.*, FRIC (Chem. P.) Sr. Lectr.  
 Nethercott, S. E., BSc Asst. Biochemist  
 . . . . . Asst. Biochemist  
 Mallen, S. G., BSc Asst. Biochemist  
 Bloom, A. L., MB ChB  *Sheff.* Asst. Haematologist

Phillips, W. P., DPH (Vaccination & Practice of Immunization) †Instr.  
 Parry, T. E., MB ChB  *Manc.* †(C)

### Pharmacology

Landgrebe, F. W., DSc  *Aberd.* Prof.  
 Graham, J. D. P., BSc MD  *Edin.*, FRCP, FRFPGlas Sr. Lectr.  
 Ancill, R. J., MB ChB  *Brist.* Lectr.  
 Mitchell, G. M., MB ChB  *Aberd.* Lectr.  
 Tonks, R. S., PhD BPharm Lectr.

### Physical Medicine

Lloyd, K. N., MB BS  *Lond.* †Lectr.

### Preventive Medicine, see Hyg. and Pub. Health

### Psychological Medicine

Spillane, J. P., BSc MD †(C)

### Radiology

Hanson, E. H., TD, MB BS  *Durh.*, DMR  *Lond.* †Lectr.  
 Hinde, G. de B. †(C)  
 Bligh, A. S., MB BS  *Lond.*, FFR †(C)

### Radiotherapy

Evans, G. C. D., BSc MB BCh †Lectr.

### Surgery

Rogers, L. C., CBE, MD  *Melb.*, MSc, FRCS FRCSEd, FRACS, FACS Prof., Dir.  
 Aldis, A. S., BSc MB BS  *Lond.*, FRCS Sr. Lectr., Asst. Dir.  
 Thomas, L. P., BSc MB BCh, FRCS Sr. Lectr.  
 Ioan-Jones, D., BSc MB BCh, FRCS †(C)  
 Lysaght, A. C., FRCS †(C)  
 Foster, D. B. E., BSc MB BCh, FRCSEd †(C)  
 Wade, J. S. H., MC, FRCS †(C)  
 Jones, H. O., MB MS  *Lond.*, FRCS †(C)  
 Jenkins, D. H., BSc MB MS  *Lond.*, MB BCh, FRCS †(C)  
 Evans, D., BSc MB BCh, FRCSEd (Fractures) †(C)  
 Mogg, R. A., BSc MB MCh, FRCS †(C)  
 Lewis, E. E., FRCS †(C)  
 Morris, D. G., BSc MB BCh, FRCSEd †(C)  
 Langmaid, C., MB BS  *Lond.*, BSc MB BCh, FRCS †(C)  
 Harley, H. R. S., MB MS  *Lond.*, FRCS †(C)  
 Thomas, D. M. E., FRCS †(C)  
 Richards, H. J., MB BS  *Lond.*, FRCS †(C)

### Tuberculosis and Chest Diseases

Cochrane, A. L., MBE, MB BChir  *Camb.* David Davies Prof.

Graham, S. H., MD <i>Edin.</i> , DPH TDD	†Lectr.	Williams, N. V., MB ChB <i>Edin.</i> ,	
Marks, J., MD DipBact <i>Lond.</i>	†Lectr.	DPH <i>Lond.</i>	†(C)
Seal, R. M. E., BSc MB BCh	†Lectr.		
Foreman, H. M., MBE, MB ChB N.Z.	†Lectr.	<b>Venereal Diseases</b>	
Evans, D., BSc MB BCh, FRCSEd	†(C)	Peterson, Mrs. Jean, DPH <i>Aberd.</i> , MD	
Harley, H. R. S., MB MS <i>Lond.</i> , FRCS	†(C)		†Asst. <i>accu</i>
Thomas, D. M. E., FRCS	†(C)	Ribeiro, J.	†(C)

## ADMINISTRATIVE AND OTHER STAFF

Asst. Sec.: E. K. Downing. Univ. Student Health Officers—Sr. Student Health Officer: G. Grant, MB BS *Lond.*; Student Health Officers:

R. A. N. Hitchens, MD DPH, Edith McKnight, BSc MB ChB DPH *Glas.*; Asst. Student Health Officer: W. H. James, MB BS *Lond.*

## GENERAL INFORMATION

The Welsh National Sch. of Med. originated in the institution of depts. in anat. and physiol. at the Univ. Coll. of S. Wales and Monmouthshire, Cardiff, in 1893. On Feb. 5, 1931, a royal charter of incorporation was granted to the sch.

The various depts. of the sch. are located as follows: pharmacol., prev. med.—Inst. of Prev. Med., The Parade, Cardiff; tuberculosis & chest diseases (postgrad. labs.)—4 Richmond Rd., Cardiff; med. unit, surg. unit, inst. of pathol., anaesthetics—Royal Infirmary, Cardiff; obstet. & gynæcol.—Maternity Hospital, Cardiff; child health—Llandough Hospital, nr. Penarth, Glam.

**ADMISSION.** To be eligible for admission as a med. student every candidate must present a cert. showing that he has satisfied the requirements for matric. in the Univ. of Wales (*see Appendix II*). The course for the degrees of MB BCh consists of 3 parts: pre-med. (3 academic terms), which can be taken in any of the four constituent colls. of the Univ. of Wales; pre-clin. (5 terms), taken in the Univ. Coll. of S. Wales and Monmouthshire, Cardiff; clin. (36 mos.), taken in the Welsh Natl. Sch. of Med. No candidate will normally be accepted for admission to the 2nd yr. of the med. course unless he has obtained approved passes in chem., phys. and biol. or zool. in an exam. for the G.C.E. at advanced or scholarship level, or in another exam. deemed adequate by the admitting authority.

**LIBRARIES.** The main libr., which is situated at the med. sch. house, Howard Place, Cardiff, consists of a lending and reference libr., with seating accomm. for 122 readers. The libr. of the Cardiff Med. Soc. is also housed there. Deptl. libr. at the following depts.: anaesthetics, child health, med. unit, obstet. & gynæcol., pathol., pharmacol., prev. med., surg. unit, tuberculosis. Total stock of main, deptl. and Cardiff Med. Soc. libr.: bound periodicals and texts, 15,000; pamphlets, 2500; unbound volumes of periodicals, 100. Spec. collection: Lloyd-Roberts collection of 17th- and 18th-cent. texts.

**TEACHING HOSPITALS.** United Cardiff Hosps. (Cardiff Royal Infirmary and Maternity H., Llandough H. and the Lord Pontypridd H. for

Rheumatic Children, Cardiff). Other clin. instns.: St. David's H.; Whitchurch H.; Lansdowne (Isolation) H.; Prince of Wales' (Orthopaedic) H., Rhydlafar; Cefn Mably and Glan Ely (Tuberculosis) and Sully (Chest Diseases) Hosps.

**FIRST DEGREES** (of Univ. of Wales). (*See also 'Admission', above.*) 5 yrs. 2 terms—MB BCh

While the courses of instructn. are designed to meet the regns. for the degrees in med. and surg. of the Univ. of Wales, they are also recog. as satisfying the external regns. for the MB BS degrees of the Univ. of London and the regns. of other univs.

**HIGHER DEGREES** (of Univ. of Wales). MD, MCh, PhD. *See p. 1198.*

**DIPLOMAS.** *Univ. dipls.* (*see also p. 1198*) DPH, 18 mos. pt.-time; DTCD (tuberculosis & chest diseases), 6 mos.

**OTHER COURSES.** Course of instructn. for health visitors.

**FEES.** *See under Univ. of Wales, above.*

**POSTGRADUATE AWARDS** open to grads. of other univs.: *see p. 825.*

**REFECTORY AND RESIDENCE** (warden: F. Dodsworth, FCIS). The refectory and residence are combined. There is accomm. for about 67 residents—£100–£120 p.a. part board (incl. vacation term).

**STUDENT HEALTH SERVICE.** The univ. has establd. a student health dept. which is accomm. in the med. sch. house. The med. officers conduct exams. of all students of the Univ. of Wales free of cost and are also available for free consultation and advice.

**MEDICAL STUDENTS' CLUB.** Med. students of all yrs., whether in the Univ. Coll. of South Wales and Monmouthshire, Cardiff, or in the Welsh National Sch. of Med., become members of the med. students' club and of the students' union soc. of the Univ. Coll., Cardiff.

The student organizations provide numerous soc. functions as well as facilities for rugby and

occn. football, hockey, tennis, cricket, squash and swimming.

The med. students' club includes a scientific soc. which arranges lectures, demonstrations and discussions on med. and cognate subjects.

TERMS (1960-61), Oct. 4-Dec. 16 ; Jan. 10-Mar. 24 ; April 25-June 30.

PUBLICATIONS. *Prospectus* and *Regulations* (free). Students' mag., *The Leech*, 2s., twice a yr.

## THE YEAR 1959

RETIREMENT. Prof. F. R. G. Heaf (TB.).

Distribution by Faculties. *Med.*, 204.

RESIGNATIONS. T. J. Hennelly (psychol. med.), apptd. psychiatric consultant & lectr., Crease Clinic, Essondale, British Columbia ; A. G. Heppleston (pathol.), apptd. to chair of pathol., King's Coll., Newcastle upon Tyne ; D. Richter (psychol. med.), on transfer to Med. Res. Council unit, Carshalton ; P. J. L. Roche (forensic med.), apptd. med. officer, H.M. Prison, Pentonville.

*Included in the figures above are :—*

Postgraduate students, 35.

New admissions, 55.

Students from other countries, 35. (Countries from which largest numbers came : Ceylon, India, Pakistan).

DEATHS. Dr. V. E. Jones (rec. teacher, TB.) ; Dr. G. E. Harries (lectr. in infectious dis.).

DEGREES AWARDED (by Univ. of Wales) (1958-1959). MB BCh, 54 ; MD, 5 ; MCh, 2.

### Statistics

#### STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	107	43
Women . . .	44	10
Total	151	53

DIPLOMAS, ETC. (1958-59). TDD, 28 ; DPH, 1 ; LRCP, MRCS, 2.

CERTIFICATES (1958-59). Health visitors, 15.



# ST. DAVID'S COLLEGE, LAMPETER

Founded 1822

Postal Address : Lampeter, Cardiganshire, Wales

Telephone : Lampeter 42

VISITOR—THE LORD BISHOP OF ST. DAVID'S

PRINCIPAL—Rev. Canon J. R. LLOYD THOMAS, MA *Oxon.*

## TEACHING STAFF

### Classics

Harris, H. A., MA *Oxon.*

Newte, F. R., MA *Oxon.*

Prof.  
Lectr.

### English

Boorman, S. C., MA *Lond.*

Sambrook, A. J., MA *Oxon.*, PhD *Nott.*

Prof.  
Lectr.

### French

.....

Jones, R. S., MA *Wales*, PhD *Lond.*

Prof.  
Lectr., Hd. of Dept.

### History

Dawson, D., BA *Leeds*, MLitt *Camb.*

David, Rev. F. J. T., MA *Oxon.*, BA

Prof.  
Lectr.

### Mathematics

Renowden, Mrs. Ruth C. M., MA *Camb.*

Lectr.

### Pastoral Theology

Wood, Rev. T., MA BD *Leeds* D. J. James Prof

### Philosophy

.....  
Renowden, Rev. C. R., MA *Oxon.*, BA

Prof

Lectr., Hd. of Dept.

Burke, T. E. B., BA PhD *Dub.*

Lectr

### Theology and Hebrew

Hunt, Rev. E. W., MA *Durh.*, BD *Birm.*,  
BLitt *Oxon.*

Prof

Morris, Rev. P. M. K., MA *Oxon.* (Theol.) Lectr.

### Welsh

.....

Marks, Rev. D. F., BA *Wales*, MA *Oxon.*

Prof

Lectr., Hd. of Dept

## GENERAL INFORMATION

Incorporated by royal charter, the coll. confers degrees in arts (BA) and theol. (BD and LTh) and a dipl. in theol. Originally founded to provide a residential univ. for men preparing for holy orders, its arts fac. was recog. by royal charter as open to all students without religious test. Completely residential, its inclusive fees are about £70 a term. All exams. are conducted by examiners apptd. by Oxford and Cambridge, and the passing of 3 exams. and 9 terms' residence are required for the hons. and gen. degrees.

POSTGRADUATE STUDY. The Bishop Burgess Hall attached is open to all grads., who may read for a licence in theol. (LTh) requiring 2 yrs.' residence, or a dipl. in theol. (DipTheol) requiring of grads. 2 yrs.' and of non-grads. 3 yrs.' residence; both give full exemption from the gen. ordination exam. of the Church of England.

SCHOLARSHIPS to total annual value of £1500 offered. Bursaries granted to grads. proceeding with sr. status to other univs. under affiliation regns.

ADMISSION. The coll. no longer holds a matric exam. except for mature candidates over 23 yrs. and candidates are now admitted (1) on the cert. of a matric. exam. of a univ. recog. by the Assocn of Univs. of the British Commonwealth; (2) on the General Cert. of Educn. of any of the recog. British examining bodies, provided that the cert. contains at least 5 subjs., 2 of which have been passed at advanced level, and incl. (i) Engl. lang. or Welsh lang.; (ii) an addtnl. lang. other than that selected under (i); (iii) maths. or an approved sci. subj. Admission to the dipl. course in theol. is by 5 subjs. at the ordinary level of the G.C.E., which must incl. Engl. lang. or Welsh lang. Further particulars from the principal.

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. New endowment appeal fund reached £92,000; £25,000 towards endowment of existing chair of theol. and £30,000 to augment staff stipends, from Sir David J. James.

### Statistics

STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	185	—
Women . . .	—	—
Total	185	

Distribution by Faculties. *Arts*, 160; *theol.* (postgrad.), 10; *sp. courses*, 15. Total: 185.

Included in the figures above are:—

New admissions, 88 (*arts*, 79; *theol.*, 9).

DEGREES AWARDED (1958-59). *Arts*: BA, 30; BA (hons.), 5. Total number of first degrees awarded, 35.

# SCOTLAND

[Information compiled as at 30/9/60]

## UNIVERSITY OF ABERDEEN\*

Founded 1494

*Postal Address* : Aberdeen, Scotland

*Telegrams* : Aberdeen University

*Telephone* (Secretary's Office) : Aberdeen 24367

CHANCELLOR—The Rt. Hon. T. JOHNSTON, CH, Hon. LLD *Glas. & Aberd.*

VICE-CHANCELLOR AND PRINCIPAL—Sir THOMAS M. TAYLOR, CBE, QC, Hon. DD *Edn.*, Hon. LLD *St. And.*, MA LLB

RECTOR—P. SCOTT, CBE, DSC, MA *Camb.*

SECRETARY TO THE UNIVERSITY - W. S. ANGUS, MA *Oxon.*, LLB *Liv.*

LIBRARIAN, CLERK AND REGISTRAR OF GENERAL COUNCIL—W. D. SIMPSON, OBE, MA D Litt Hon. LLD, FSA

### TEACHING STAFF

[†=Part-Time]

#### Accounting

Finn, A. S., MA, CA (CA Course) †Lectr.  
Grant, J. P., BL, CA (Law Course) †Lectr.

#### Agriculture, see below

#### Anæsthetics, see Medicine

#### Anatomy

Lockhart, R. D., MD *Birm.*, ChM Regius Prof.  
Hamilton, G. F., BSc MB ChB, JP Sr. Lectr.  
Mackenzie, J., MD Sr. Lectr.  
Bulmer, D., MA MD *Camb.* Lectr.  
Dickson, A. D., MA *Camb.*, MD *Belf.* Lectr.  
Whyte, A. G. D., CBE, MA MB ChB, FRCSEd Lectr.  
Sargison, K. D., MB ChB Lectr.  
Findlay, J. A. M., MB ChB Lectr.  
Hunter, Isobel N. Radiol. Demr.

#### Astronomy

Lectr.

#### Bacteriology, see Medicine

#### Biblical Study, see also Divinity

Lillie, Rev. W., BD *Glas.*, MA Hon. DD Lectr.  
Lectr.

#### Biological Chemistry

Kermack, W. O., Hon. LLD *St. And.*, MA DSc, FRS, FRIC MacLeod-Smith Prof.  
Robertson, H. A., BSc PhD *Edm.*, FRIC

Sr. Lectr.

Porteous, J. W., BSc PhD *Liv.* Lectr.  
Grant, P. T., PhD *Lond.*, BSc Lectr.  
Simkin, J. L., BSc *Liv.*, PhD *Birm.* Lectr.  
Burke, D. C., BSc PhD *Birm.* Lectr.  
Fothergill, J. E., BSc PhD *Brist.* Sr. Res. Fellow  
Skinner, E. R., BSc *Birm.*, PhD *Lond.*

Sr. Res. Fellow

Robb, G. M. M., MB ChB Asst.  
Stansfield, D. A., BSc *Wales* Asst.

#### Biology, see Nat. Hist.

#### Botany

Weatherley, P. E., MA DPhil *Oxon.* Regius Prof.  
Faulks, P. J., MA *Camb.* Sr. Lectr.  
Gimingham, C. H., BA *Camb.*, PhD Sr. Lectr.  
Stirling, J., DSc *St. And.* Lectr.  
Burns, D. W., BSc PhD *St. And.* Lectr.  
Cusick, F., MSc PhD *Manc.* Lectr.  
Hadley, G., BSc PhD *Birm.* Lectr.  
Pritchard, N. M., MA DPhil *Oxon.* Lectr.  
Sommerville, Mrs. Alice H., MA BSc Asst.  
Pardy, A. A., BSc BSc(For) Asst.

#### Celtic

Thomson, D. S., BA *Camb.*, MA Reader  
Mackenzie, Annie M., MA PhD Lectr.

\* Member of the Association of Universities of the British Commonwealth

**Chemistry**

Burnett, G. M., DSc <i>Birm.</i> , BSc PhD	Prof.
Strathdee, R. B., OBE, TD, PhD <i>Camb.</i> , MA BSc, FRIC	Reader
Thomson, R. H., DSc PhD <i>Leeds</i> , FRIC	Sr. Lectr.
Moser, W., BSc <i>Lond.</i>	Sr. Lectr.
Meares, P., MA PhD <i>Camb.</i> , DSc <i>Aberd.</i>	Sr. Lectr.
Taylor, H. F. W., PhD DSc <i>Lond.</i>	Lectr.
Humphries, J. E., BA <i>Lond. &amp; Camb.</i> , MSc <i>Wales</i> , PhD <i>Lond.</i> , DSc	Lectr.
McKean, D. C., MA DPhil <i>Oxon.</i>	Lectr.
Chalmers, R. A., BSc <i>Manc.</i> , PhD <i>Edin.</i>	Lectr.
Hogg, D. R., BSc PhD <i>Lond.</i>	Lectr.
Musgrave, O. C., BSc PhD <i>Lond.</i>	Lectr.
Aylett, B. J., MA PhD <i>Camb.</i>	Lectr.
Bryce, W. A. J., PhD <i>Edin.</i>	Lectr.
Wilkie, K. C. B., BSc PhD <i>Edin.</i>	Lectr.
Gard, J. A., BSc <i>Durh.</i> , PhD	Res. Lectr.
Glasser, F. P., BA <i>Conn.</i> , PhD <i>Penn.</i>	Sr. Res. Fellow
Glasser, Mrs. Lesley D., BSc <i>Camb.</i> , PhD	Sr. Res. Fellow
Wells, J. W., MSc <i>Q'ld.</i>	Sr. Res. Fellow
Tait, P. J. T., BSc PhD	Hon. Res. Fellow
Duncan, G. L., BSc PhD	Asst.
Smith, J., BSc	(on leave) Asst.
Donaldson, J. D., BSc PhD	Asst.
Ball, D. F., BSc <i>Sheff.</i>	Asst.
Morris, Shirley J., BSc <i>Lond.</i>	Asst.
Murray, A. W., BSc	Asst.
Walton, Annette, BSc <i>Lond.</i> , PhD <i>Nott.</i>	Asst.
Thomson, Dorothy A., BSc	Analyst

**Chemistry, Biological**, see Biol. Chem.**Chemistry, Clinical**, see Medicine**Child Health**, see Medicine**Church History**, see Divinity**Classics**, see Greek and Humanity**Comparative and Constitutional Law**,  
see Law**Crop Physiology**, see p. 1229**Dental Surgery**, see Medicine**Divinity**, see below**Economics**, see Pol. Econ.**Education**

Nisbet, J. D., MA BEd <i>Edin.</i> , PhD, FBPSS	Lectr.
Gammie, A. J., MA EdB	Asst.

**Engineering**

Allen, J., DSc <i>Manc.</i> , MICE	Jackson Prof.
Grassie, J. C., BSc(Eng) <i>Glas.</i> , DSc	Reader

Hampson, H., MScTech *Manc.*,

MIMEchE

Wilkinson, E., BEng PhD *Liv.*, MIEE

Taylor, G. A., MA BSc(Eng) PhD, MICE

Smith, R. G., BSc *Edin.*  
 Imrie, K. C., MSc *Manc.*  
 Fair, E. J., BSc(Eng) *Glas.*  
 Matthew, G. D., BSc(Eng)  
 Coull, A., BSc(Eng)  
 Ogston, W. M., MA *Oxon.*, MS *Calif.*  
 Earls, J. C., BSc(Eng) *Lond.*

Hardie, A. M., MA BSc(Eng) PhD,  
MIEEOwens, W. L., BSc *Wash.*, MSc *Calif.*

Chisholm, J. A., MIMEchE

Hendrie, R. A., BSc(Eng) *Lond.*,

MIMEchE

Corry, J. M., BSc(Eng) *Lond.*Colmar, G. C., BSc(Eng) *Glas.*Dorward, L. F., BSc(Eng) *Lond.***English**, see also Scottish Lang.Duthie, G. I., MA PhD DLitt *Edin.*,

FRSCan

Lothian, J. M., MA *Glas. & Sask.*Evans, M., BA PhD *Camb.*Keir, W. A. S., BLitt *Oxon.*, MAThomson, Mrs. Patricia, PhD *Camb.*, MAMichie, J. A., BA *Oxon.*, MABlench, J. W., MA PhD *Camb.*Hargreaves, H., MA *Liv.*Anderson, Mrs. Cecily, MA BLitt *Oxon.*Bellringer, A. W., MA *Glas.*Lindsay, D. W. M., MA *Edin.***Fisheries and Oceanography**, see p.**Forestry**Steven, H. M., CBE, MA *Oxon.*, BSc  
PhD *Edin.*McNeill, W. M., MBE, TD, MA DipFor  
*Oxon.*, MS *Yale*Davis, P. W., MC, BA DipFor *Camb.*Richardson, S. D., MA BSc DPhil *Oxon.*Crooke, M., BSc *Edin.*, PhD

Low, A. J., BSc(For)

Rook, D. A., BSc(For)

Grant, G. C., BScF *Tor.*, BSc(For)

Asst. Investigator

**French**Diverres, A. H., MA *Wales*, LèsI. *Rennes*,  
DUParisAbrioux, O. M., LèsI. *Paris*, PhDBrown, A. W., MA *Edin.*Gibson, R. D. D., BA *Lond.*, PhD *Camb.*

Lawrenson, T. E., MA DipEd PhD *Manc.*  
Lectr.  
Lockerbie, S. I. J., MA PhD *Edin.*  
Asst.  
Coupland, R., MA *Edin.*  
Asst.  
Abrioux, Mme. Renée, LèsL. *Rennes*  
(until May 1961) †Asst.  
Mahieu, Françoise, LèsL. *Rennes*  
(until May 1961) †Asst.

### Geography

O'Dell, A. C., MSc *Lond.*  
Prof.  
Walton, K., MA *Edin.*, PhD  
Sr. Lectr.  
Mellor, R. E. H., BA *Manc.*  
Lectr.  
Fraser, A. S., BSc  
Lectr.  
Coull, J. R., MA  
Asst.  
Barnett, Mrs. Muriel J. F., MA *Edin.*  
Cartographer

### Geology

Phenuster, T. C., DSc *Glas.*, PhD *Camb.*,  
MSc *Chic.*, DU *Rennes*  
Kilgour Prof.  
Pringle, A. K., BSc *Glas.*, FGS  
Sr. Lectr.  
Fraser, W. E., MA BSc PhD, FGS  
Lectr.  
Tocher, F. E., BSc PhD  
Lectr.  
Munro, M., BSc PhD *St. And.*  
Lectr.  
Downie, G., BSc  
Lectr.  
Greenhields, R. A., BSc  
Asst.

### German

Witte, W., MA *Lond.*, DrRerPol *Bres.*,  
PhD  
Prof.  
Barber, C. C., MA *Oxon.*, DPhil *Giessen*  
Sr. Lectr.  
Kenworthy, B. J., BA *Brist.*, PhD  
Lectr.  
Fowler, F. M., MA  
Asst.  
Lamey, C.  
(until May 1961) †Asst.

### Greek

Cameron, A., BA *Oxon.*, MA *Glas.*  
Regius Prof.  
Thomson, H., MA *Oxon.*  
Temp. Lectr.

### Greek Art and Archæology

Geddes-Harrower Prof.

### Hebrew, see Divinity, below

### History

Savles, G. O., MA DLitt *Glas.*, FRHistS  
Burnett-Fletcher Prof.  
Humphries, W. R., MA  
Sr. Lectr.  
Henderson, J. M., TD, MA *Edin.*, FRHistS  
Sr. Lectr.  
Edwards, Kathleen, MA *Lond.*, PhD *Manc.*,  
FRHistS, FSA  
Sr. Lectr.  
Hargreaves, J. D., MA *Manc.* (on leave)  
Lectr.  
Milne, Doreen J., MA *Glas.*, PhD *Lond.*  
Lectr.  
Haffenden, P. S., BA PhD *Lond.*  
Lectr.  
Macfarlane, L. J., BA PhD *Lond.*  
Lectr.  
Allan, N., MA PhD *Harv.*  
(until Sept. 1961) Lectr.  
Dreyer, F. A., MA *Tor.*, BA *Oxon.*  
Asst.

### History and Philosophy of Science

Wightman, W. P. D., MSc PhD *Lond.*  
Reader

### History, Economic, see Pol. Econ.

### Humanity

Watt, W. S., MA *Glas.* & *Oxon.*  
Regius Prof.  
Raven, E. J. P., MA *Camb.*  
Sr. Lectr.  
Reece, D. W., MA *Oxon.*  
Lectr.  
Corbett, P. B., MA *Sheff.*, DrPhil&Lett  
*Louvain*  
Lectr.  
Edwards, G. P., MA *Camb.*  
Lectr.  
Pearce, T. E. V., BA *Oxon.*  
Asst.  
†Asst.

### Italian

Brown, P. M., BA *Oxon.*  
Lectr.  
Bressan, D.  
(until May 1961) †Asst.

### Latin, see Humanity

### Law, see below

### Logic

Cross, R. C., MA *Glas.* & *Oxon.*  
Regius Prof.  
Bednarowski, W., DPhil *Cracow*  
Lectr.  
Bird, G. H., MA *Oxon.*  
Lectr.

### Mathematics

Wright, E. M., BA *Lond.*, MA DPhil *Oxon.*  
Prof.  
Potter, H. S. A., MA DPhil *Oxon.*  
Reader  
Bowen, N. A., BSc *Lond.*, MSc *Wales*,  
PhD  
Sr. Lectr.  
Patterson, E. M., BSc PhD *Leeds*  
Sr. Lectr.  
Ponting, F. W., MA *Oxon.*, PhD  
Sr. Lectr.  
White, A. J., MSc *Lond.*  
Lectr.  
Nash-Williams, C. J. A., MA PhD *Camb.*  
Lectr.  
Robertson, M. M., BSc *Lond.*, MA PhD  
Lectr.  
Morrison, E. E., MA  
Lectr.  
Bostock, F. A., MSc *Nott.*  
Lectr.  
Hooley, J., BSc *Lond.*, MSc *Leic.*  
Lectr.  
.....  
Lectr.  
.....  
Lectr.  
Howroyd, T. D., MSc *Tas.*  
Asst.

### Medicine, see below

### Mental Health, see Medicine, below

### Moral Philosophy

Wernham, A. G., BA *Oxon.*, MA  
Regius Prof.  
Bednarowski, W., DPhil *Cracow*  
(also Logic) Sr. Lectr.  
Duthie, G. D., MA BPhil *Oxon.*,  
PhD *Camb.*  
Lectr.  
Fowlic, I. M., MA *St.And.*, BA *Camb.*  
Temp. Lectr.

### Music

Barrett-Ayres, R., BMus *Edin.*  
Lectr.  
Dodd, R. H., MA BMus *Oxon.*  
Lectr.

Kemp, I. M., MA *Camb.*  
McCloy, J., BMus PhD *Belf.*

Asst.  
Asst.

Kosterlitz, H. W., MD *Berl.*, PhD DSc Reader  
Taylor, D. W., MD Lectr.  
Matthews, B. F., BSc MB ChB *Leeds* Lectr.  
Cairnie, A. B., BSc *Glas.*, PhD Lectr.  
..... Lectr.  
..... Lectr.

### Natural History

Wynne-Edwards, V. C., MA *Oxon.*,  
FRSCan Regius Prof.  
Neill, R. M., MC, MA *Glas.*, DSc Reader  
Begg, C. M. M., PhD *Birm.*, MA BSc Lectr.  
Short, J. R. T., BSc *W. Aust.*, DPhil  
*Oxon.*, DSc Lectr.  
Orkin, P. A., BSc *McG.*, PhD Lectr.  
Symmons, Saida, BSc *Leeds*, PhD Lectr.  
Forman, B., BSc PhD Lectr.  
Dunnet, G. M., BSc PhD Lectr.  
Gauld, D. T., BSc PhD *Edin.* Lectr.  
de Kock, Mrs. Ludovika L., MA *Oxon.*,  
PhD Res. Lectr.  
Pringle, C. R., BSc *Glas.*, PhD *Edin.* Asst.  
Crombie, I. L., BSc *Glas.* Asst.  
Anderson, A., BSc Res. Asst.

### Natural Philosophy

Jones, R. V., CB, CBE, MA DPhil *Oxon.*,  
FIP Prof.  
Griffith, H. D., BA *Camb.* Reader  
Strachan, C., PhD *Camb.*, MA *Camb.* &  
*Aberd.* Sr. Lectr.  
Hollbourn, A. H. S., MA *Edin.*,  
DPhil *Oxon.* Sr. Lectr.  
Buchanan, T. J., MA *Glas.*, PhD *Lond.*,  
FIP Sr. Lectr.  
Richards, J. C. S., BSc PhD Sr. Lectr.  
..... Sr. Lectr.  
Lindsay, D. D., MA *Oxon.*, FIP Lectr.  
Stevenson, R. W. H., BA *Oxon.*, PhD Lectr.  
Finlayson, D. M., BSc PhD *St. And.* Lectr.  
Jones, D. A., BSc *Wales*, PhD Lectr.  
Duncanson, A., BSc *Edin.* Lectr.  
Ansbacher, F., BSc PhD *Lond.* Lectr.  
Elcock, E. W., BSc PhD *Leeds* Lectr.  
McCombie, C. W., MA PhD Lectr.  
Smith, T., BSc PhD *Leeds* Lectr.  
Davidson, S., BSc PhD Lectr.  
Ward, A., BSc PhD *Glas.* Lectr.  
Binnie, W. P., BSc PhD *Glas.* Lectr.  
Stewart, J. D., MA PhD †Lectr.  
Gill, T. P., MSc *Melb.* Sr. Res. Fellow  
Findlay, D., BSc Asst.  
Pollard, J. H., BSc *Brist.* Asst.  
Gray, P., BSc *Lond.* Asst.  
Mutch, H., MA †Asst.  
McIntosh, J. A. R., BSc Res. Asst.  
4 Lectureships vacant

### Oceanography, see p. 1229

### Philosophy, see Logic and Moral Philos.

### Physics, see Nat. Philos.

### Physiology

Malcolm, J. L., BMedSc MB ChB *N.Z.*  
Regius Prof.

### Physiology of Nutrition, see p. 1229

### Political Economy

Hamilton, H., MA DLitt *Glas.* Jaffrey Prof.  
Macdonald, Annie, MA Sr. Lectr.  
Alexander, K. J. W., BSc(Econ) *Lond.* Lectr.  
Houghton, R. W., MSc(Econ) *Lond.* Lectr.  
Gray, M., MA Lectr.  
Richardson, H. W., BA *Manc.* Asst.  
Welham, P. J., BA(Econ) *Leeds* Asst.  
Milne, Sheila I. D., BL Res. Asst.

### Politics

Frankel, J., ML *Lwow*, LL.M. *W. Aust.*,  
PhD *Lond.* Lectr.  
Hanak, H., MA *Dub. & Lond.* Asst.

### Psychology

Knight, A. R., BA *Syd.*, MA *Camb.*, FRPS Anderson Prof.  
Reid, R. L., MA *Edin.* Sr. Lectr.  
Fraser, Elizabeth D., MA EdB PhD Lectr.  
Symons, J. R., BA PhD *R'dg.* Lectr.  
Bursill, A. E., BA *R'dg.* Lectr.  
Knight, Mrs. Margaret K., MA *Camb.* †Lectr.  
..... Asst.

### Scottish Arts and Crafts

Davidson, G. Sr. Res. Fellow

### Scottish Language

Murison, D. D., BA *Camb.*, MA †Lectr.  
Collie, Joyce P., MA PhD Hon. Res. Fellow  
Fenton, A., BA *Camb.*, MA Hon. Res. Fellow  
Todd, W. Annette, MA Dipl'd *Glas.*  
Hon. Res. Fellow

### Soil Science, see also p. 1229

Tinsley, J., BSc PhD *R'dg.*, FRIC Reader  
Coutts, J. R. H., MSc *Lond.*, DSc *S.A.*,  
FIP Lectr.  
Fitzpatrick, E. A., PhD Lectr.  
..... Lectr.  
Jelley, R. M., MA *Oxon.* Jr. Res. Fellow

### Spanish

May, T. E., MA *Manc.* Sr. Lectr.  
Dunn, P. N., MA *Lond.* Lectr.  
Pujol, C. †Asst.

**Statistics**

Finney, D. J., MA *Camb. & Oxon.*,  
ScD *Camb.*, FRS Reader  
Brass, W., MA *Edin.* Lectr.  
Fisk, P. R., BSc(Econ) *Lond.* Lectr.  
Cormack, R. M., BSc *Lond.*, BA *Camb.* Lectr.  
Barnes, C. R., MA DiplStats *Oxon.*  
..... Sr. Res. Fellow  
..... Sr. Res. Fellow  
Fisk, Mrs. Flora B., BSc *Glas.* Jr. Res. Fellow  
Pike, M. C., BSc *Rand*, DiplMathStats *Camb.*  
Asst.  
Asst.

**Surgery**, see Medicine, below

**Swedish**

Ljunggren, N. G., FilMag *Lund* Lectr.  
↑Asst.

**Theology**, see Divinity, below

**Zoology**, see Nat. Hist.

**AGRICULTURE**

• (see also N. of Scotland Coll. of  
Agric., below)

Raeburn, J. R., BSc(Agr) *Edin.*, MS  
PhD *Corn.*, MA *Oxon.*  
Strathcona-Fordyce Prof.  
Fraser, A. H. H., MD DSc Sr. Lectr.  
Dempster, D. G., BSc BSc(Agr) Sr. Lectr.  
Smith, J. H., MSc *Hales* Sr. Lectr.  
..... Lectr.  
Donald, G., BSc(Agr) ↑Lectr.  
Grant, J. C. ↑Lectr.  
Livingston, D. M. S., BSc(Agr) PhD  
Sr. Res. Fellow  
Barlow, C., BSc *Lond.*, MS *Corn.* Asst.  
Blair, R., BSc(Agr) *Glas.* Asst.  
Bain, R., BSc(Agr) *Glas.* ↑Asst.  
Dodgworth, T. L., BSc(Agr) *Leeds*, PhD ↑Asst.  
Shiach, J. G., BSc(Agr) BSc(Eng) ↑Asst.

**DIVINITY**

**Biblical Criticism**, see also Biblical Study,  
above

Hunter, Rev. A. M., MA BD PhD Hon.  
DD *Glas.*, DPhil *Oxon.* Prof.  
Alexander, Rev. J. N. S., MA BD *Glas.*,  
STM N.Y. Lectr.

**Christian Dogmatics**

Macleod, Rev. J., MA *Glas.*, Hon. DD *Glas.*  
& *Pine Hill* (retires Sept. 1961) Prof.

**Church History**

McEwen, Rev. J. S., MA BD Hon. DD *Edin.*  
Regius Prof.

**Hebrew**

Kennedy, Rev. A. C., MA BD Hon. DD *Edin.*  
Regius Prof.  
Gray, Rev. J., MA BD PhD *Edin.* Lectr.

**Systematic Theology**

Graham, Rev. J. M., CBE, MA Hon  
DD *Glas.*, JP Prof.  
Cairns, Rev. D., MA *Oxon.*, Hon.  
DD *Edin.* ↑Lectr.

**LAW**

**Comparative Law** (including International  
Private Law)

Willock, I. D., MA LLB Sr. Lectr.

**Conveyancing**

MacRitchie, F., MA LLB Hugh McLennan Prof.  
Brown, W., BL ↑Asst.  
Tough, A. F., MA LLB ↑Asst.

**Evidence, Pleading and Procedure**

Hay, A. L., MA LLB ↑Lectr.

**Jurisprudence** (including Roman Law)

Stem, P. G., MA LLB *Camb.* Prof.  
Willock, I. D., MA LLB  
(also Compar. Law) Sr. Lectr.

**Mercantile Law** (including Administrative  
Law)

Pattullo, W. O., MA LLB Sr. Lectr.

**Public Law** (including Constitutional Law ;  
Scottish Legal System ; Public International  
Law)

MacGibbon, I. C., MA LLB *Edin.*,  
PhD *Camb.* (on leave) Sr. Lectr.  
Young, J. N., BA *Camb.* Temp. Lectr.  
Park, I. M. S., MA LLB ↑Asst.

**Scots Law**

Ireland, R. D., MA *Oxon.*, LLB *Edin.* Prof.  
Niven, A. F., MA LLB Lectr.  
Milne, A., OBE, TD, BL ↑Lectr.  
Barton, R. C., MA LLB ↑Asst.

**MEDICINE**

(for subjects of first 2 years—Anat., etc.,  
see above)

**Anæsthetics**

Rollason, W. N., MB ChB *Bom.*, FFARCS  
↑Lectr.

**Bacteriology**

Macdonald, A., MA MD Prof.  
McIntegart, M. G., MD *Liv.* Sr. Lectr.  
Fraser, K. B., MC, MD Sr. Lectr.

Paton, A. M., BSc PhD <i>Edin.</i>	Sr. Lectr.	Manson, Doris I., MB ChB, MRCPEd	Lectr.
Menzies, R. F., MB ChB	Lectr.	McDonald, G. A., MD	Lectr.
Smylie, H. G., MD	Lectr.	Dawson, Audrey A., MB ChB, MRCPEd	Lectr.
Bell, T. M., BSc <i>Glas.</i>	Lectr.	Gordon, I., OBE, BSc MB ChB, FRCP,	
Turner, Grace C., MB ChB	Lectr.	FRCPed	†Lectr.
.....	Lectr.	Gauld, W. R., TD, MD, MRCP	†Asst.
Floodgate, G. D., MA <i>Camb.</i> , PhD <i>Glas.</i>		Needham, C. D., MD <i>Lond.</i> , FRCP	†Asst.
	Sr. Res. Fellow	Wilson, L. A., MA MD, MRCP	†Asst.
Morrison, Anne I., BSc	Jr. Res. Fellow	Knox, J., MB ChB <i>Glas.</i> , MRCP	†Asst.
		Short, D. S., MA MD PhD <i>Camb.</i> , MRCP	†Asst.

### Child Health

Craig, J., MB ChB, FRCPEd	Prof.
Clark, N. S., BSc MD, MRCP	Sr. Lectr.
Fraser, M. S. MB ChB, MRCPEd	Lectr.
Thom, Mrs. Hazel, BSc PhD	Lectr.
Galloway, W. H., MB ChB <i>Edin.</i> , FRCPEd	†Asst.

### Clinical Chemistry

Bowman, W., MA BSc MB ChB	Lectr.
Fraser, G. P., BSc PhD	Lectr.
Mitchell, P. E. G., MD	Lectr.
Lyall, A., MA MD, FRCP	
(retires Aug. 1961)	†Lectr.
Vine, Fiona I. G., BSc <i>St.And.</i>	Asst.

### Dental Surgery

Crombie, H. M., MB ChB LDS	†Lectr.
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### Diseases of the Ear, Nose and Throat

Collins, E. G., MB ChB, FRCSEd	†Lectr.
McNaughtan, I. P. J., MB ChB, FRCSEd	†Asst.
Thomson, I. S. D., MB ChB, FRCSEd	†Asst.
Weir, C. D., MC, MB ChB, FRCSEd	†Asst.

### Diseases of the Skin (including Venereal Diseases)

Anderson, T. E., MD, MRCPEd	†Lectr.
Lyell, A., MD <i>Camb.</i> , MRCPEd	†Asst.
Finnie, J. S., MD	†Asst.
Rutherford, H. W., MB ChB	†Asst.

### Forensic Medicine (including Medical Ethics)

Hendry, W. T., MB ChB	†Lectr.
McBain, D., MB ChB	†Asst.

### Materia Medica and Therapeutics

Macgregor, A. G., BSc MD <i>Glas.</i> , MRCP, FRCPed, FRFPSGlas	Regius Prof.
Crooks, J., MD, FRFPSGlas, MRCPEd	
	Sr. Lectr.
Forrester, T. M., BSc MB ChB	Lectr.
Roberts, M. B., MA DPhil <i>Oxon.</i> , MB BS <i>Lond.</i>	Temp. Lectr.

### Medicine

Fullerton, H. W., MA MD, FRCP, FRCPEd	
	Regius Prof.
Morgan, T. N., MD, FRCP	Hon. Reader
Palmer, K. N. V., MA MD <i>Camb.</i> , MRCP	
	Sr. Lectr.
Macleod, M., MB ChB, FRCPEd	Sr. Lectr.

### Mental Health

Millar, W. M., MD DipPsychiatry <i>Edin.</i> , FBPsS	Crombie-Ross Prof
Sinclair-Gieben, A. H. C., MB ChB DipPsychiatry <i>Edin.</i> , MD <i>Amst.</i> , DTMH <i>Ley.</i> , MRCPEd	Sr. Lectr.
Fraser, N. G., MB ChB	ectr
Wyllie, A. M., BSc MD <i>Glas.</i> , DipPsychiatry <i>Edin.</i>	†Lectr.
Stewart, R. A. Y., MB ChB <i>Glas.</i> , DPM <i>Lond.</i> , FRFPSGlas	†Lectr.
Innes, G., MD DPH	Sr. Res. Fellow
Sharp, G. A., MA <i>Edin.</i>	Sr. Res. Fellow
Taylor, Mrs. Joan D., MA	Asst.
Rowlands, Mrs. Helen C. S., DipPsychiatry <i>Edin.</i> , MB ChB	†Lectr.
Raitt, W. J., DipPsychiatry <i>Edin.</i> , MB ChB	†Asst.
Winders, Winifred, MA <i>Camb.</i>	Asst.
Faulkner, G. E., MB ChB <i>Birm.</i>	Asst.

### Midwifery and Gynaecology

Baird, Sir Dugald, BSc MD DPH	
Hon. LL.D <i>Glas.</i> , FRCOG	Regius Prof
Thomson, A. M., BSc MB ChB <i>Glas.</i> , DPH <i>Lond.</i>	Sr. Lectr.
MacGillivray, I., MD <i>Glas.</i>	Sr. Lectr.
Macnaughton, M. C., MB ChB <i>Glas.</i>	Lectr.
Milne, G. P., MB ChB, FRCOG	†Lectr.
Wyper, J. F. B., BSc MB ChB <i>Glas.</i> , FRCOG	†Asst.
Bernard, R. M., MB ChB	†Asst.

### Ophthalmology

Law, Beatrix B., DO <i>Oxon.</i> , MA MD	†Lectr.
Cockburn, C., TD, MA MB ChB, FRCSEd	†Asst.
Milne, W. S., DO <i>Oxon.</i> , MB ChB	†Asst.

### Pathology

Young, J. S., MC, MA BSc MD <i>Glas.</i>	
	Regius Wilson Prof
Stalker, A. J., MB ChB	Sr. Lectr.
Nairn, R. C., MD PhD <i>Liv.</i>	Sr. Lectr.
Branwood, A. W., MD, FRCPEd, MRCP	
	Sr. Lectr.
Carr, A. J., BSc MB ChB <i>Glas.</i>	Lectr.
Best, P. V., MB ChB <i>Birm.</i>	Lectr.
Scott, G. B., MB ChB	Lectr.
Porteous, I. B., MB BS <i>Durh.</i>	Lectr.
.....	Lectr.

**Public Health**, see Soc. Med.

**Radiology**

Levack, D. P., CBE, TD, DMRE *Camb.*,  
MB ChB †Lectr.

**Social Medicine**

Backett, E. M., BSc MB BS DPH *Lond.*,  
MRCP of.

Richardson, I. M., MD *Edin.*, DPH *Glas.*,  
PhD, FRCPEd Sr. Lectr.

Weir, R. D., MB ChB DPH Lectr.

Mann, C. J. H., MB BS DPH *Lond.* Lectr.

Brodie, J., MD DPH *St. And.* †Lectr.

MacQueen, I. A. G., MA MD DPH *Edin.* †Lectr.

Doig, A. T., MD DPH *St. And.*, FRFPGlas,  
FRCPEd †Lectr.

Chambers, W., MD *Glas.* †Asst.

Fench, G. W., MSc *Lond.* Nuffield Res. Offr.

Klopper, Mrs. Mary, BSc *Lond.*  
Nuffield Res. Offr.

**Surgery**

Wilson, W. C., MB ChB *Edin.*, FRCSEd  
Regius Prof.

Dudley, H. A. F., ChM *Edin.*, FRCSEd

Kyle, J., MCh BAO *Belf.*, FRCS, FRCSI  
Sr. Lectr.

Cowan, F. J. S., MB BS *Lond.*, FRCS,  
FRCSEd Sr. Lectr.

Rennie, A. M., MB ChB, FRCS †Lectr.

Nichols, W. M., MBE, TD, MSc *McG.*,  
MB ChB, FRFPGlas †Lectr.

Davidson, S. G., MA MB ChB, FRCS,  
FRCSEd †Lectr.

Logie, N. J., TD, MB ChB, FRCS,  
FRCSEd †Lectr.

Michie, W., MB ChB, FRCSEd †Asst.

Philip, J. F., ChM, FRCSEd †Asst.

James, P. F., MA MChir *Camb.*, FRCS †Asst.

Adam, A., MB ChB, FRCSEd †Asst.

Carr, T. L., ChM, FRCS †Asst.

Hendry, N. G. C., MB ChB, FRCSEd †Asst.

Brunnen, P. L., MB ChB, FRCS, FRCSEd

Hay, G., MB ChB *Edin.*, FRCSEd †Asst.

Fraser, R. J. A., MB ChB, FRCSEd †Asst.

Proctor, D. M., MB ChB †Asst.

MacKenzie, I. G., MD *Edin.*, FRCSEd †Asst.

Mavor, G. E., MD *N.Y.*, MA ChM,  
FRCSEd †Asst.

**Tuberculosis**

Bell, D., MD *Edin.*, DPH †Lectr.

Mason, Anna T., MB ChB *Glas.* †Asst.

Fraser, R., MD DPH †Asst.

**Venereal Diseases**, see Diseases of the Skin

**HONORARY RESEARCH LECTURERS**

Cuthbertson, D. P., CBE, MD DSc

Hon. LLD *Glas.* (Physiol. of Nutrition)

Lucas, C. E., CMG, DSc *Lond.*

(Fisheries & Oceanography)

Stewart, A. B., MA BSc PhD, FRIC (Soil Sci.)

Reay, G. A., CBE, PhD *Camb.*, MA

BSc, FRIC (Fish Technol.)

Tincker, M. A. H., MA *Camb.*,  
DSc *Lond.*, FLS (Crop Physiol.)

Hanson, S. W. F., MSc DipEd *Liv.*,  
FRIC (Food Technol.)

**GIFFORD LECTURER IN NATURAL  
THEOLOGY**

.....

**EXTRA-MURAL STUDIES**

Walker, N. T., OBE, MA EdB PhD *Glas.*,

FBPSS †Dir.

Wood, K. A., MA Tutor-Organizer

**ADMINISTRATIVE AND OTHER STAFF**

Asst. Sec. (Senatus): J. George, MA *Camb.*

Asst. Sec. & Treasurer: W. J. A. Nelson, MA,

C.A. Asst. Sec. (Edilis): J. T. Kelman, Jr. Asst.

Secs.: G. R. Anderson, BLitt *Oxon.*, MA;

D. W. Girvan, MA LLB *Edin.* Cashier: G. F.

Bremner. Principal's Sec.: Florence Mackenzie,

MVO, BA *Lond.* Registry: J. Greig. Med.

Officers (Students' Health Service): H. R. Worth,

MB ChB *Edin.*; C. Murray, MB ChB. Chaplain:

Rev. A. O. Robertson, MA BD STM. Dir. of

Phys. Educn. & Recreation: H. G. U'ren; Dir.

of Phys. Educn. & Recreation for Women: Adele

F. Mackinnon. Adviser to Women Students:

Mrs. Margaret E. Clarke, JP. Matron of Med.

Hall of Residence: Jean McAnish. Warden of

Crombie Hall, Old Aberdeen: T. Lawrenson,

MA DipEd PhD *Manc.*

**ASSOCIATED COLLEGES**

NORTH OF SCOTLAND COLLEGE OF AGRICULTURE,  
41½ Union St., Aberdeen (telegrams: Nosca,  
Aberdeen; tel.: Aberdeen 27205). The coll.,  
which was establd. in 1904, offers various courses  
in agric., certain of which are, by arrangement

with the univ., held in Marischal Coll. of the  
Univ. of Aberdeen. All coll. of agric. students in  
attendance there are matriculated students of the  
univ.

Principal—M. A. H. Tincker, MA *Camb.*, DSc



*Lond.*, FLS. Sec.: H. Munro, CA. Dir. of Studies: D. A. McKenzie, BSc(Agr) *Glas.* Central Teaching Staff: AGRIC., G. Donald, BSc(Agr); ANIMAL HEALTH, J. C. Grant; BOT., D. Clouston, MA BSc(Agr) DSc; CHEM., W. Moore, BSc(Agr) DSc; ENGIN., G. Murray, BSc(Agr) *Glas.*; ZOOL., D. Robertson, BSc(Agr) PhD DSc; SCH. OF RURAL DOMESTIC ECON., Mrs. J. S. Henderson, BSc *Edin.*; CERT. COURSE IN AGRIC., J. N. Jones, BSc(Agr) *R'dg.*; CRAIBSTONE FARM, J. Ravell, BSc *Durh.*; BACTERIOL., D. A. McKenzie, BSc(Agr) *Glas.*; BEE-KEEPING, A. S. C. Deans; ECON. AND BOOK-KEEPING, A. D. Imper, MBE, MSc(Econ) *Wis.*, BSc(Agr) PhD; FARM BUILDINGS, D. S. Soutar; HORT., J. S. Panton, MA BSc(Agr). Assisting in the above depts. are 21 assts. Specialist advisory staff in agric., bacteriol., agric. econ., entomol., farm bldgs., grassland husb., mycol., animal husb., crop husb., poultry husb., vet. investigation, bee-keeping res. County advisory staff: 2 regional dirs., 2 sr. advisers in dairying and poultry-keeping, 15 agric. advisers, 13 asst. agric. advisers, 4 crofting advisers, 17 advisers in dairying and poultry-keeping, 7 machinery instrs., 7 hort. advisers, 4 bee-keeping advisers.

Students (1959-60): dipl. courses, 86; cert. course in agric., 38; Craibstone Sch. of Rural Domestic Econ., 83. All students reading for non-univ. qualifs.

ROBERT GORDON'S TECHNICAL COLLEGE, Schoolhill, Aberdeen (tel.: Aberdeen 29384). The coll. is one of the 'central institutions' in Scotland and the governors conduct schools of engin., maths. and phys., chem., pharmacy, navigation, art (incl. drawing, painting, design and sculpture), archit., building and surveying, domestic sci. The sch. of art is known as Gray's School of Art and the sch. of archit. as Scott Sutherland School of Architecture. The court of the univ. and the governors of the coll. co-operate in the provision of day courses leading to the degree of BSc(Eng) of the univ. and to the dipl. of associateship of the coll. in engin.—civil, mech. and electr. The courses in naval archit., mech. and electr. engin. are recognized under the schemes for the award of higher natnl. dipls. Courses for marine engineers are provided in preparation for exams. of the

several grades of certs. of competency issued by the Ministry of Transport, incl. that for extra-first class. Evening courses in the higher branches of civil, mech., electr. engin., naval archit., maths., phys., chem., papermaking and management studies.

*Fees.* All fees for degree courses payable at the univ. (see p. 1232). For engin. associateship and natnl. dipl. (higher), 1st, 2nd and 3rd yrs., each £50 (plus matric. fee, 2nd and 3rd yrs., £2:12s.:6d.).

*Staff.*—Dir., A. C. West, BSc *St. And.*, PhD *Lond.*, MIMechE, JP. ARCHIT., Hd. of Sch., E. F. Davies, BArch *Liv.*, FRIBA, FRIAS, 6 Asst. Teachers. ART, Hd. of Sch., I. Fleming. CHEM., Hd. of Sch., M. B. Watson, PhD *R'dg.*, BSc, FRIC; Lectrs.: G. W. Youngson, BSc PhD, FRIC; G. A. Fraser, BSc; A. Hunter, BSc; J. Towler; N. G. MacMillan, BSc; R. Buchan, BSc; 2 Lab. Technicians. DOM. SCI., Hd. of Sch., Mrs. M. H. Gilbe, BA; 3 Hds. of Depts.; 12 others. CIVIL ENGIN., W. D. Millar, BSc. ELECTR. ENGIN., Lectrs.: G. C. Colhoar, BSc *Glas.*; L. F. Dorward, BSc(Eng) *Lond.*; J. C. Earls, BSc(Eng) *Lond.*; A. M. Hardie, MA BSc(Eng) PhD; A. J. Lilburn, BSc(Eng). 3 Lab. Technicians. MECH. ENGIN., Lectrs. J. A. Chisholm, MIMechE; J. M. Corry, BSc(Eng) *Lond.*; R. A. Hendrie, BSc(Eng) *Lond.*, MIMechE; R. Hosie, BSc(Eng). F. Thomson, BSc; 4 Lab. Technicians. MARINE ENGIN., Lectrs.: E. T. Morgan, BSc(Eng) *Wale.*; C. Hay; C. L. Robertson. MATHS. AND PHYS., Hd. of Sch., J. D. Stewart, MA PhD; Lectrs. R. G. Angus, MA; H. Mutch, MA; W. R. Oliver, BSc *Edin.*; J. S. Morgan, MA; S. N. Forrest, MA; 2 Lab. Technicians. NAVIGATION, Hd. of Sch., A. Simpson, BSc; Lectrs.: F. W. Gardner; G. P. Insh; D. F. McKay; G. B. Swan; W. McL. Paterson; Lectrs. in Ambulance Work: A. G. Beattie, MB ChB; F. S. Rae, MB ChB. PHARMACY, Hd. of Sch., D. Edwards, BSc PhD, FRIC; Lectrs.: A. Macdonald, G. R. Page, BSc *Lond.*, FRIC; Nancy M. Rose, MA BSc; A. M. Morison; W. H. Stewart, BSc(Pharm); G. M. Bowen, BSc; 2 Lab. Technicians.

Students (1959-60), 1800 (full-time, 550, incl. 90 reading for univ. qualifs.; pt.-time, 1250)

## GENERAL INFORMATION

The Univ. of Aberdeen derives its origin and endowments from 2 sep., and for a long time indep., foundations. One of these was the univ. founded by William Elphinstone, Bishop of Aberdeen, under the authority of a papal bull obtained in 1494-95 at the instance of King James IV; within which univ. was afterwards founded, in 1505, the Coll. of St. Mary, subsequently called King's Coll. From this royal patronage, it was held to stand in a specially close relation to the sovereign, and is accordingly styled in acts of the Scots parliament—'our sovereign lord his college

and university'. The other foundation was that of Marischal Coll. founded in 1593 by George Keith, fifth earl marischal, under a charter ratified by act of the Scots parliament. Both the above foundations were reconstituted in 1860 as 'The University of Aberdeen', which is incorporated under the Universities (Scotland) Act of 1889.

CONSTITUTION. The univ. court, which controls the finance, property and general admin. of the univ., was constituted a corporate body by the

Universities (Scotland) Act, 1889. The members of the court are the rector (president), the principal, the lord provost of Aberdeen (all *ex officio*), an assessor appointed by the chancellor, one appointed by the rector, one appointed by the town council, 4 elected by the general council of the univ. and 4 elected by the senatus academicus. The senatus academicus is charged with the general supervision of teaching and discipline, and is composed of the principal and all profs. of the univ. (*ex officio*) together with certain non-professional members, the no. of which is controlled by ordinance. The general council consists of the chancellor, the members of the univ. court, profs. and all grads. of the univ., as well as readers and lectrs. of 1 yr.'s standing. The five facs. (arts, sci., div., law and med.) consist of (a) profs. (who are allocated to the several facs. by ordinance), and (b) indep. readers and lectrs. and certain other readers and lectrs., those under (b) being apptd. by rota for 2 consecutive yrs. The chancellor is appointed for life by the general council; the rector is apptd. for 3 yrs. by the matriculated students of the univ., voting through procurators in four 'nations'; the vice-chancellor is appointed by the chancellor for the purpose, in the absence of the chancellor, of discharging his office in so far as regards the conferring of degrees.

INCOME (1958-59). Total income, £1,002,535 (govt. grants, 80 per cent.; fees, 9 per cent.; endowments, 4 per cent.; other sources, 7 per cent.).

FACULTIES AND DEANS. *Arts*, Prof. W. Witte (German); *div.*, Rev. Prof. J. S. McEwen (church hist.); *law*, Prof. F. MacRitchie (conveyancing); *med.*, Prof. R. D. Lockhart (anat.); *sci.*, Prof. R. V. Jones (nat. philos.).

UNIVERSITY PRECINCT. The depts. accommodated within King's Coll., Old Aberdeen, belong to the facs. of arts and div. The classes in the fac. of law, and the depts. of psychol., geog. and educn., are accommodated within the reconstructed St. Mary's Church, Old Aberdeen. The bot. and for. depts., incl. the Cruickshank bot. gardens, occupy adjacent bldgs. also in Old Aberdeen. On a sep. site is the chem. bldg. (opened in 1952), in which are accommodated the depts. of chem., agric. biochem., soil sci. and the students' health service. In a new wing (opened in 1957) of this bldg. are the dept. of stats. (incl. an Agric. Res. Council statistical unit) and certain minor depts. in fac. of arts. On a site opposite the chem. and stats. bldgs. is Crombie hall of residence, a mixed residence accommodating 64 women students, 46 men students and 15 members of staff. In Marischal Coll. the depts. accommodated belong mainly to the facs. of sci. and med. (1st-, 2nd- and 3rd-yr. subjs.). At Foresterhill joint hosps. site, in close proximity to Aberdeen Royal Inf., the Maternity Hosp. and the Royal Aberdeen Hosp. for Sick Children, are the univ. med. bldgs. in which are accommodated all med. classes from the 4th yr. onwards, and a residence for 5th or final yr. med. students under-

going their 9 wks.' period of compulsory residence during midwifery trg.

The LIBRARY, founded in 1494, has over 350,000 vols incl. more than 200 incunabula, some unique. It is especially rich in Celtic lit., and bks. bearing on the hist., topog. and antiquities of the Scottish highlands, and classical archaeol. It also contains the McBean Jacobite collection, reputed to be the largest in the world outside the British Museum. Annual budget more than £15,000.

MUSEUMS. Marischal Coll.: anat. museum (human & compar.); also anthropol. museum containing ethnog. and archaeol. (mainly Egyptian) items, as well as local antiquities; large numismatic collection. Nat. hist. dept.: museum, principal display being teaching collection of systematic zool. Foresterhill: pathol. museum containing more than 1000 specimens.

RESEARCH. Besides the usual labs. there is the Rowett Inst. of Res. in Animal Nutrition, Bankhead, nr. Aberdeen (tel.: Bucksburn 7), with depts. of physiol., biochem., bacteriol. and pathol., and attached animal husb. section for practical experiments in feeding, etc. It is under the management of a jt. cttee. of the univ. and the N. of Scotland Coll. of Agric. There are also the Macaulay Inst. for Soil Res., Craigiebuckler, Aberdeen (tel.: Aberdeen 33223), Torry Res. Stn. (fish technol.) of D.S.I.R. (tel.: Aberdeen 24258), the Scottish Home Dept. marine lab. (fisheries & oceanog.) (tel.: Aberdeen 25218), and the Ministry of Agric., Fisheries and Food Exper. Est., Torry (tel.: Aberdeen 24295).

TEACHING HOSPITALS. Hosps. available for clinics: Infirmary, 605 beds; Woodend H., 400; Children's H., 194; Fever H., 254; Mental H., 897; Maternity H., 173.

ACADEMIC YEAR. Three terms, each of 10 wks.: winter (Oct. Dec.), spring (Jan. Mar.) and summer (April June).

ADMISSION. See Appendix II. Persons wishing to attend classes as private (non-graduating) students may do so only with the approval of the appropriate departmental hd., and on payment of the necessary class and matric. fees.

FIRST DEGREES. Ordinary degrees: MA, BSc, BSc(Agr), BSc(Eng), BSc(For), B.L.—3 yrs. (for BSc(Agr) one addtl. yr.'s work on approved farm required). MB ChB 6 yrs. Honours MA degree—4 yrs. (following groups available: classics, mental philos., maths.-nat. philos. (physics), Engl., French-German, hist., hist.-Engl., econ. sci., Latin-French, Greek-Engl., French-Engl., German-Engl., French-Spanish, German-Spanish, Latin-Spanish, Latin-Celtic, philos.-Engl., geog., Latin-Engl., Celtic-Engl., psychol.-econ. hist. & theory, psychol.-philos., Engl.-psychol., Spanish-Engl., music, psychol., hist.-pol., econ.-pol., philos.-pol., Latin-Italian, French-Italian, Spanish-Italian, Latin-biblical studies, Engl.-biblical studies, maths., nat. philos., German-Swedish, Engl.-Swedish, Italian-

Engl., jurisp.-philos., jurisp.-pol.). Honours BSc degree—4 yrs. (following groups available: maths., nat. philos. (physics), chem., bot., zool., geol., geog., anat., physiol., biochem., psychol.). Hons. BSc(Agr), BSc(For), BSc(Eng) degrees—4 yrs. (for BSc(Agr) one addnl. yr.'s work on approved farm required).

**HIGHER DEGREES.** EdB—2 yrs.' course after 1st degree in arts or sci.; BD—3 yrs.' course after 1st degree in arts; LLB—2 yrs.' course after 1st degree in arts (if suitable subjs. incl. in arts curricula). Research degrees: PhD—3 yrs.; MSc—at least 1 yr.; DSc, DLitt—candidates admitted after 5 yrs. from 1st degree (2 yrs.' res. may be required); LL.D.—candidates admitted after 7 yrs. from 1st degree; MD, ChM—candidates admitted over age of 24 yrs. after lapse of 1 yr. from 1st degree.

**HONORARY DEGREES.** DD, LL.D., DLitt.

The univ. does not award EXTERNAL DEGREES.

**DIPLOMAS.** Educn.—1 yr. postgrad.; statistics—2 yrs. postgrad.; DPH—1 yr. full-time or 15 mos. full/pt.-time or 18 mos. pt.-time.

**STUDY LEAVE.** No regular practice, but applcns. by members of staff for leave of absence dealt with by univ. court on their individual merits.

**ENTRANCE BURSARIES AND SCHOLARSHIPS.** At annual entrance bursary competition bursaries and scholps. valued up to £70 p.a. are available for award in the facs. of arts, sci. and med.

**FEES.** Annual fees (incl. tuition, exam. and lab. fees) payable by all students who first matriculate and enter upon courses leading to a degree on or after Oct. 1, 1956. MA, EdB, BD, BL, LLB, £35; BSc (pure, agric., for., engin.), £55; MB ChB, £60; DPhil, £70; dipl. in stats., £35. In addition, annual matric. fee (includes membership of students' union) of £2: 12s.: 6d.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**RESIDENCE.** List of lodgings published by corporation publicity service. Lodgings cost from £3 upwards per wk. There is a hall of residence for med. students in which residence (fee at present £36) is compulsory for 9 wks. during the 5th or final yr. of study. Vacancies for voluntary residents from any fac. usually available at a cost of £4 per week. Crombie hall of residence in Old Aberdeen open for all facs. and to men as well as women. Fees covering all 3 terms, £150, incl. jr. common-room sub. and all meals.

**APPOINTMENTS.** There is no appts. cttee., but advice is given by a member of the admin. staff as to preparation for entrance to various govt. services and other appts. All communications to be addressed to: The Secretary to the University.

**PHYSICAL WELFARE OF STUDENTS.** There is a dir. of phys. educn., with a woman dir. for female students. See 'Admin. and Other Staff', above.

**STUDENT HEALTH SERVICE.** There is a med. officer for the compulsory exam. of all med. students, and students in all facs. must submit to mass miniature radiography annually.

**ADULT EDUCATION AND VACATION COURSES.** Adult educn. classes under the Adult Education (Scotland) Regns., 1952, are conducted in Marischal Coll. in conjunction with the educn. cttee of Aberdeen town council. Classes under the regns. for the Kilgour (mechanics' institution) lectures are conducted under the same auspices. The univ. dept. of extra-mural studies (see also 'Teaching Staff', above) conducts certain adult educn. courses in the larger burghs in the univ. area. No vacation courses are held within the univ.

**ALUMNUS ASSOCIATION.** All grads. and alumni of the univ. are eligible for membership of the Aberdeen Univ. alumnus assocn. Particulars from the sec., L. J. Smith, MA LLB, 9 Bonaccord Sq., Aberdeen (tel.: Aberdeen 29482).

**UNIVERSITY MILITARY AND AIR FORCE FORMATIONS.** There is a contingent of the officers' trig corps (T.A.) attached to the univ. (C.O., Lt.-Col. J. Reid); it has infantry, engin., med. and signals sections with a perm. staff of officer and other rank instrs. A sub-unit of the W.R.A.C. is attached. There is also a squadron of the Royal Auxiliary Air Force attached to the univ. (C.O., Sqdn. Ldr. C. P. Woodroffe, MA). H.Q. of both formations is situated at Powis Gardens, Old Aberdeen (tel.: Aberdeen 43861); a contingent of the R.N.R. (C.O., Lt.-Cmdr. M. Steeves) has been formed, and is attached to Tay div. of the R.N.R. at Dundee. Membership of all formations is voluntary, and is confined to matriculated students of the univ.

**ATHLETIC ACTIVITIES.** There are playing-fields of approx. 22 acres at King's Coll. Membership of Aberdeen Univ. athletic assocn. is open to all matriculated students on payment of a fee, as is membership of the affiliated clubs (football, cricket, swimming, etc.). At King's Coll. there is a modern well-equipped swimming-pool, and squash courts, etc.

**UNIVERSITY UNION.** All students on matric. become members of the univ. union without further fee. The union has a large hall (with stage and full stage equipment), billiards room, music room, reading-rooms and spray baths, as well as snack bars and dining-rooms.

**PUBLICATIONS.** *Calendar* (Oct.), 22s. 6d. (post free inland); fac. prospectuses, 1s. 6d. each; *Univ. Review*, 16s. p.a. (2 issues); *Students' Handbook and Diary* (Nov.), 3s. 6d.; *Alma Mater* (organ of S.R.C.).

**UNIVERSITY PRESS.** Aberdeen University Press, Ltd., 6 Upperkirkgate, Aberdeen (managing dir.: H. M. R. Watt, MA).

# THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Trustees of Dr. J. W. A. Hunter, South Africa, £55,000 for foundation of med. scholp.; Carnegie Trust, Edinburgh, £30,900 for various purposes; trustees of W. S. McGillivray, W. Australia, £11,900 for general purposes.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* Crombie hall of residence (first mixed hall of residence in Scotland completed and opened formally by H.M. the Queen; med. phys. bldg. at Foresterhill. *Approaching completion:* extension to univ. union.

**NEW CHAIR.** Geddes-Harrower chair of Greek art & archaeol.

**RETIREMENTS.** Dr. N. T. Walker (educn.); Dr. A. H. Macklin (med. officer).

**RESIGNATIONS.** Dr. F. M. Arscott (maths.); P. D. Baird (geog.); Dr. K. W. Bentley (chem.); R. G. G. Coleman (humanity); Dr. J. G. Henderson (mental health); Dr. P. T. Landsberg (nat. philos.); Dr. A. H. McIlraith (nat. philos.); Dr. R. G. McKerron (compar. law); Dr. R. T. Macpherson (pathol.); Dr. H. G. Richmond (pathol.).

**DEATHS.** E. Birkhead (asst., pol. econ., 1959); Dr. Dorothy G. Downie (reader in bot., 1959); Dr. Ethel M. H. Hampson (lectr., pol. econ., 1946); Dr. E. V. Laing (reader in for., 1949).

**HONORARY DEGREES.** *DD*—Prof. J. Bodonhelyi, vice-dean of theol. semin. of Hungarian Reformed Church, Budapest; Dr. M. Boegner, pres., French Academy of Moral & Pol. Sci.; Rev. R. H. W. Falconer, organizer of religious broadcasting for Scotland; Rev. W. Steven, minister of Queen's Park West Church, Glasgow. *LLD*—Sir Robert S. Aitken, vice-chancellor, Birm., and chairman of Cttee. of Vice-Chancellors and Principals; Lady May D. Baird, chairman of N.E. regional hosp. bd., Scotland; Sir David Camp-

bell, formerly regius prof. of materia medica in the univ.; Rt. Hon. Lord Clyde, lord justice-gen. of Scotland; J. Durno, farmer and stockbreeder; Prof. E. L. Hirst, Forbes prof. of organic chem., Edin., and pres. of Royal Soc. of Edinburgh; Sir Willis Jackson, pres., Instn. of Electr. Engin.; W. C. Kneale, fellow and tutor in philos., Exeter Coll., Oxford; J. R. Matthews, formerly regius prof. of bot. in the univ.; J. N. Milne, convener, bus. cttee. of gen. council of univ.; Ruth Railton, founder of national youth orchestra of Gt. Britain; Dr. W. D. Simpson, librarian and registrar of gen. council of univ.

## Statistics

### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1327	193
Women . . .	610	24
	—	—
Total . . .	1937	217

Distribution by Faculties. *Arts*, 823; *div.*, law, 73; *med.*, 427; *sci.*, 806. Total: 2154.

*Included in the figures above are:* -

Postgraduate students, 186.

New admissions, 544.

Students from other countries, 208. (Countries from which largest numbers came: Norway, 26; Nigeria, 20; Trinidad, 14; Kenya, 11; Ghana, 9; British Guiana, 8; U.S.A., 8).

**DEGREES AWARDED (1958-59).** *Arts*: EdB, 1; MA, 170; PhD, 1. *Div.*: BD, 4; PhD, 3. *Law*: BL, 4; LLB, 5. *Med.*: MB ChB, 77; MD, 8; ChM, 1. *Sci.*: BSc(Agr), 9; BSc(Eng), 20; BSc(For), 15; BSc(pure), 80; DSc, 1; PhD, 31. *Total number of first degrees awarded*, 375.

**DIPLOMAS AWARDED (1958-59).** DipEd, 15; DPH, 1.

# UNIVERSITY OF EDINBURGH\*

Founded 1583

*Postal Address* : Edinburgh, Scotland  
*Cables and Telegrams* : University, Edinburgh  
*Telephone* : Edinburgh 41001

CHANCELLOR—H.R.H. THE DUKE OF EDINBURGH, KG, KT, GMBE, Hon. LLD *Wales & Edin*, Hon. DSc *Delhi*, FRS  
 VICE-CHANCELLOR AND PRINCIPAL—SIR EDWARD V. APPERTON, GBE, KCB, MA Hon. ScD *Camb*, Hon. DSc *Oxon.*, *Brussels*, *Leeds*, *Syd.*, *Sheff.* & *Laval*, Hon. LLD *Aberd.*, *Birm.*, *St. And.*, *Lond Glas.*, *Liv. & Dal.*, Hon. LittD *Cinc.*, Hon. DUMontr., DSc, FRCSEd, FRS  
 RECTOR—J. GRIMOND, TD, BA *Oxon.*  
 SECRETARY TO THE UNIVERSITY—C. H. STEWART, JP, MA LLB *Glas.*, CA  
 SECRETARY TO THE GENERAL COUNCIL—A. NISBET, MA  
 REGISTRAR TO THE GENERAL COUNCIL—C. H. STEWART, JP, MA LLB *Glas.*, CA  
 LIBRARIAN—E. R. S. FIFOOT, MA *Oxon.*  
 ACCOUNTANT—R. O. CURLE, CA

## TEACHING STAFF

[+ = Part-Time]

<b>Accounting and Business Method</b>		<b>Anatomy, Comparative (Veterinary)</b>	
Anderson, D. S., MA, CA	Prof.	Peters, A., BSc PhD <i>Brit.</i>	Lectr.
Taylor, R., CA	Lectr.	o ASSIS. (Appl. A.)	
Taylor, J., MA, CA	Lectr.		
Ritchie, J. M., CA	Lectr.		
Kwiecinski, T. Z., BCom, CA	Lectr.	Grahame, T., FRCVS	Reader
<b>Actuarial Science</b>		<b>Anthropology</b>	
Skinner, J., MA, FFA	Lectr.	Little, K. L., MA <i>Camb.</i> , PhD <i>Lond.</i>	
Walker, I. S., FFA	Lectr.	(Soc. A.)	Reader
<b>Agriculture, see below</b>		Littlejohn, J., PhD	Lectr.
		Collins, S. F., MA PhD	Lectr.
		Banton, M. P., BSc <i>Lond.</i> , PhD	Lectr.
		6 Assts.	
<b>Anatomy</b>		<b>Arabic</b>	
Romanes, G. J., BA PhD <i>Camb.</i> , MB ChB, FRCSEd	Prof.	Watt, W. M., MA <i>Oxon. &amp; Edin.</i> , BLitt <i>Oxon.</i> , PhD	Reader
Inkster, R. G., MA <i>Dub.</i> , MD	Reader	Cachia, P. J. E., BA <i>Ames</i> , PhD	Lectr.
Kuczynski, K., MB ChB, FRCS	Sr. Lectr.		
Muir, A. R., MD	Sr. Lectr.		
Canpbell, Nora, MB ChB	Lectr.		
Craig, R. C., MB ChB, FRCSEd	Lectr.		
Taylor, H. W. Y., MA BSc MB ChB DTM&H	Lectr.		
Barrett, Helen S., MB ChB	Lectr.		
Robertson, D., DTM <i>Calc.</i> , MB ChB, FRCSEd	Lectr.		
King, J. B., MD DR, FRCP, FFR	Lectr.		
Kerr, A. W. S., MB ChB	Lectr.		
Adams, D., BDS BSc	Lectr.		
<b>Archæology, Classical</b>		<b>Archæology, Prehistoric</b>	
		Piggott, S., BLitt <i>Oxon.</i> , Hon. DLitt <i>Hun Col.</i> , FBA	Abercromby Prof.
		1 Asst.	

\* Member of the Association of Universities of the British Commonwealth

**Architecture**

Matthew, R. H., CBE, MA	Prof.
Stevenson, F. R.	Sr. Lectr.
Clark, H. F.	Sr. Lectr.
Johnson-Marshall, P. E.	Sr. Lectr.
Nuttgens, P., MA PhD	Lectr.
Forward, A. C. M., BA <i>Manc.</i>	Lectr.
Torrance, J. S.	Lectr.

**Art (Fine Art)**

Rice, D. T., MBE, MA BSc DLitt <i>Oxon.</i>	
	Watson Gordon Prof.
Robertson, G. H., MA <i>Oxon.</i>	Lectr.

**Astronomy**

Bruck, H. A., DPhil <i>Munich</i> , DPhilHabil <i>Berl.</i> , PhD <i>Camb.</i>	Regius Prof.
Smyth, M. J., MA PhD	Lectr.

**Banking**

Lockie, J. H., BL <i>Glas.</i>	Bruce Lectr.
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**Biblical Studies**

Stalker, Rev. D. M. G., MA BD	Sr. Lectr.
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**Bibliography**

Lectr.

**Biology**, see Nat. Hist.**Biophysics**

Pamry, J., MA DSc	Reader
Croghan, P. C., MA <i>Camb.</i> , PhD	Lectr.
Scott, R., BSc PhD	Lectr.
Williams, E. J., BSc PhD	Lectr.
Malcolm, B. R., BSc PhD	Lectr.
Johnston, R. J., MSc PhD	Lectr.

**Botany**, see also For.

Brown, R., PhD DSc <i>Lond.</i> , FRS	Regius Prof.
Nelson, A., BSc <i>Glas.</i> , PhD DSc	Reader
Lvall, C. A., BSc	Lectr.
Davis, P. H., BSc PhD	Lectr.
Dodds, J. G., BSc PhD	Lectr.
Brook, A. J., BSc PhD, FLS	Lectr.
Heyes, J. K., MSc <i>N.Z.</i> , PhD <i>Camb.</i>	Lectr.
Blvth, W., BSc PhD	Lectr.

**Celtic Languages, etc.**

Jackson, K. H., MA LittD <i>Camb.</i> , Hon. DLittCelt <i>N.U.I.</i> , AM <i>Harv.</i> , FBA	Prof.
Matheson, Rev. W., MA	Lectr.

**Chemistry**, see also Technol., Chem.

Cottrell, T. L., DSc	Prof.
Ritchie, M., DSc PhD, FRIC	Reader
Campbell, N., DSc PhD	Reader
Beever, C. A., DSc <i>Liv.</i> , FIP	Reader
Miller, Christina C., DSc PhD	Sr. Lectr.
Bolam, T. R., MSc <i>Brist.</i> , DSc	Sr. Lectr.
Taylor, D., DSc PhD	Lectr.

Aspinall, G. O., DSc PhD, FRIC	Lectr.
Percival, Mrs. Elizabeth, BSc <i>Birm.</i> , PhD DSc	Lectr.
Manners, D. J., BA PhD DSc, FRIC	Lectr.
Greenwood, C. T., PhD DSc	Lectr.
Knox, J. H., BSc PhD	Lectr.
Anderson, D. M. W., BSc PhD, FRIC	Lectr.
Rossotti, F. J. C., MA BSc PhD	Lectr.
Schwartz, J. C. P., MA BSc PhD	Lectr.
Leaver, D., BSc PhD	Lectr.
Brown, W. B., MSc	Lectr.
6 Assts.	

**Chemistry in relation to Medicine**

Fisher, R. B., MA BSc DPhil <i>Oxon.</i>	Prof.
Ramsay, W. N. M., BSc PhD	Sr. Lectr.
Ottaway, J. H., BSc PhD <i>Lond.</i>	Sr. Lectr.
Minnis, J. W., BSc PhD	Lectr.
Boyd, G. S., PhD	Lectr.
Cruft, H. J., PhD	Lectr.
Ryle, A., BA PhD <i>Camb.</i>	Lectr.
Plaskett, L. G., BA <i>Camb.</i> , PhD <i>Lond.</i>	Lectr.
6 Assts.	

**Chemistry, Organic**

Hirst, E. L., CBE, MA BSc PhD <i>St. And.</i> , DSc <i>Birm.</i> , MSc <i>Manc.</i> , Hon. LLD, <i>St. And.</i> & <i>Aberd.</i> , Hon. ScD <i>Dub.</i> , FRIC, FRS	Prof.
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**Chemistry, Technical**

Wilson, D. M., BSc PhD <i>Glas.</i>	Sr. Lectr.
Macleod, N., BSc PhD <i>Lond.</i>	Lectr.

**Classics**, see Greek and Latin**Commerce, Organization of Industry and,**

see also Acctg., Banking

Hunt, N. C., BCom <i>Lond.</i> , PhD	Prof.
Stalker, G. M., MA	Lectr.
Behrend, Hilde, BSc(Econ) <i>Lond.</i> , PhD	Lectr.
1 Asst.	

**Cytology**, see Nat. Hist.**Divinity**, see also New Coll., p 1244

McIntyre, J., MA BD DLitt	Prof.
Burleigh, Rt. Rev. J. H. S., Blatt <i>Oxon.</i> , DD <i>Aberd.</i> , MA BD (Eccles. Hist.) Prof. (Bibl. Crit. & Bibl. Antiq.) Prof	
.....	
Torrance, Rev. T. F., MBE, DD <i>McG.</i> & <i>Presbyterian Coll.</i> (P.Q.), DTheol <i>Basle</i> & <i>Geneva</i> , MA BD	

(Christian Dogmatics) Prof.

Stewart, Rev. J. S., MA DD <i>St. And.</i>	
(N.T. Lang. & Lit.) Prof.	

Tindal, Rev. W. S., OBE, MA <i>Glas.</i> , DD (Christian Ethics & Practical Theol.)	Prof.
--	-------

Barr, J., MA BD (O.T. Lit. & Theol.)	Prof.
Duthie, Rev. C. S., MA BD <i>Aberd.</i> , BD	Lectr.
Barbour, Rev. R. A. S., MC, MA <i>Oxon.</i> , BD <i>St. And.</i> , STM <i>Yale</i>	Sr. Lectr.

Gray, Rev. J., MA BD  
 Reid, Rev. I., BA *Camb.*  
 Cheyne, Rev. A. C., MA BD BLitt *Oxon.*  
 Dunlop, Rev. A. I., BD  
 1 Asst.

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

Rutherford, A., MA  
 Sinclair, J. M., MA  
 Kinkaid-Weekes, M., BA *Cape T.*,  
 MA *Oxon.*  
 Carnall, G. D., BLitt *Oxon.*  
 Gregor, I. C. S., BA *Durh.*  
 6 Assts.

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

**Economics**, see Comm. and Pol. Econ.

### Education

Pilley, J. G., MA *Oxon.*  
 Mowat, G., MA BEd  
 Inglis, W. B., OBE, MA EdB *Glas.*,  
 PhD  
 Fulton, A. S., MA BEd  
 Pilliner, A. E. G., BSc *Birm.*  
 Wolstencroft, H. P., MC, BA *Lond.*  
 Renshaw, T., BSc BEd PhD  
 Adams, H. M., MA  
 Hamilton, R., MA  
 Sutherland, J., MA BEd PhD  
 9 Assts.

Prof.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Hon. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Hon. Lectr.

### Engineering

Arnold, R. N., DSc *Glas.*, PhD DEng *Sheff.*,  
 MICE  
 Farvis, W. E. J., BSc *Lond.*, MIEE  
 (Electr. E.) Prof.  
 Stewart, D. S., BSc *Lond.*, PhD, MICE  
 Sr. Lectr.  
 Dudgeon, W., BSc  
 Warburton, G. B., MA *Camb.*, PhD  
 Meltzer, B., BSc PhD, FIP  
 Patterson, C., MIMechE  
 Hunter, W. B., BSc  
 Robson, J. D., MA *Oxon.*, PhD  
 Melvin, H. M., MA *Oxon.*, PhD  
 Patten, T. D., BSc PhD  
 Davidson, C. W., BSc  
 Davies, S. R., BSc  
 Barr, A. D., BSc PhD  
 Christie, I. F., BSc  
 Maunder, L., BSc *Wales*, ScD *Mass.*,  
 PhD  
 Florence, A. L., BSc *St. And. & Lond.*,  
 MS *Stan.*  
 Oldfield, J. V., BSc PhD *Lond.*  
 3 Assts.

Sr. Lectr.  
 Sr. Lectr.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### English Language and General Linguistics

McIntosh, A., MA *Oxon.*, AM *Harv.*  
 Schram, O. K., MA *Wales*, PhD *Camb.*  
 Sr. Lectr.  
 Halliday, M. A. K., MA PhD *Camb.*,  
 BA *Lond.*  
 Pride, J. B., MA  
 Palsson, H., BA *Dub.* (Icelandic)  
 1 Asst.

Prof.  
 Lectr.  
 Lectr.  
 Lectr.

### English Literature and Rhetoric

Butt, J. E., MA BLitt *Oxon.*  
 Maynard, Winifred A., BA *Durh.*,  
 BLitt *Oxon.*  
 Prudhoe, J., MA *Camb.*  
 MacQueen, J., MA

Regius Prof.  
 Lectr.  
 Lectr.  
 Lectr.

**Entomology**, see Agric., below

**Forestry**, see Agric., below

### French and Romance Philology

McMillan, D., BA PhD *Lond.*  
 Legge, M. Dominica, MA BLitt *Oxon.*  
 Steele, A. J., MA  
 Clark, J. G., DU *Paris*  
 Barnwell, H. T., DU *Montpellier*, MA  
 Holden, A. J., BA PhD *Lond.*  
 8 Assts.

Prof.  
 Reader  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### French Literature

Green, F. C., MC, MA DPhil *Cologne*,  
 Dèsl. *Paris, Rennes & Grenoble*  
 Prof.

### Geography

Watson, J. W., PhD *Tor.*, MA, FRSCan  
 Robertson, C. J., PhD *Lond.*, MA BSc  
 Geddes, A., Dèsl. *Montpellier*, PhD  
 Macgregor, D. R., MA *Aberd.*  
 Sissons, J. B., MA PhD *Camb.*  
 Elliott, N. R., BA PhD *Durh.*  
 Macpherson, A., MA  
 Jones, R., MA PhD *Wales*  
 Klawe, J. J., MA *Glas.*, DipCom *Grenoble*  
 3 Assts.

Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Geology

Stewart, F. H., BSc *Aberd.*, PhD *Camb.*  
 Regius Prof.  
 Craig, G. Y., BSc PhD *Glas.*  
 Walton, E. K., BSc PhD  
 Duff, P. McL., BSc  
 Johnston, M. R. W., DIC, BSc PhD  
 Mercy, E. L. P., DIC, PhD  
 Hallam, A., MA PhD *Camb.*, FGS  
 Wadsworth, W. J., MA DPhil *Oxon.*  
 O'Hara, M. J., BA *Camb.*  
 2 Assts.

Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### German and Teutonic Philology

Mason, E. C., BA *Oxon.*, MA *Camb.*,  
 PhD *Leip.*  
 Silber, Kathe, PhD *Berl.*  
 Wardale, W. L., MA *Liv.*  
 George, E. F., MA BLitt *Oxon.*  
 Furness, N. A., BA *Durh.*, DrPhil *Innsbruck*  
 2 Assts.

Prof.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Greek

Beattie, A. J., MA *Aberd. & Camb.*  
 Borthwick, E. K., PhD *Aberd. & Camb.*,  
 MA

Prof.  
 Lectr.

Stokes, M. C., BA *Oxon.*  
 Robinson, D. B., BA *Oxon.*

Lectr. Wellesley, K., MA *Camb.*  
 Lectr. West, D. A., BA *Camb.*  
 Walsh, P. G., MA *Liv.*, PhD *N.U.I.*

Lectr.  
 Lectr.  
 Lectr.

### Hebrew and Semitic Languages

Porteous, Rev. N. W., DD *St. And.*,  
 MA *Oxon.* & *Edin.*, BD

Prof.

1 Asst.

Law, see below

### Mathematical Physics

### Hispanic Studies

Crosland, Margaret, MA *Camb.*  
 Wager, D. R., MA *Birm.*

Lectr.  
 Lectr.

1 Asst.

Schlapp, R., PhD *Camb.*, MA Sr. Lectr.  
 Nisbet, A., MA Sr. Lectr.  
 Higgs, P. W., MSc PhD Lectr.  
 Candlin, D. J., MA PhD *Camb.* Lectr.  
 Screaton, G. R., BA PhD *Camb.* Lectr.

### History

Horn, D. B., MA DLitt  
 Shepperson, G. A., MA *Camb.*  
 Kuchman, V. G., MA *Camb.*  
 Duncan, A. A. M., BA *Oxon.*, MA  
 Marwick, A. J. B., MA  
 Maliniewicz, A. J. A., MA  
 MacIntosh, J. P., MA  
 Bellough, D. A., MA *Oxon.*  
 Waddell, D. A. G., MA *St. And.*,  
 DPhil *Oxon.*

Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

4 Assts.

### History, Ancient (Greek and Roman)

Cadoux, T. J., MA DPhil *Oxon.* Sr. Lectr.

### History, Ancient Scottish, and Palaeography

Dickinson, W. C., MC, MA PhD *St. And.*,  
 DLit *Lond.*

Prof.  
 Reader  
 Lectr.  
 Lectr.

Donaldson, G., PhD *Lond.*, MA DLitt

Ferguson, W., MA PhD

Nicholson, R. G., MA BSc *Lond.*

1 Asst

### History, Constitutional, and Constitutional Law

Mitchell, J. D. B., LLB PhD *Lond.*

Prof.  
 Lectr.

MacKinnon, V. S., MA LLM

### History, Economic, see also Pol. Econ.

Youngson, A. J., MA DLitt

Prof.  
 Lectr.  
 Lectr.

Marwick, W. H., MA

Flinn, M. W., MA *Manc.*

### History, Mediæval

Hay, D., MA *Oxon.*

Prof.

### Italian

Rossi, M. M., MA *Florence*, LibDoc *Rome*

Reader  
 Lectr.

Phillips, B. D., BA *Oxon.*

1 Asst.

### Latin

Campbell, I. M., MA *Glas.* & *Oxon.*

Prof.  
 Reader  
 Sr. Lectr.

Potter, K. R., MC, MA *Oxon.*

Smith, W. K., MA *Camb.*

### Mathematics

Aitken, A. C., MA *N.Z.*, DSc LL.D, FRS Prof.  
 Edge, W. L., MA ScD *Camb.* Reader  
 Etherington, I. M. II., BA *Oxon.*,  
 DSc Sr. Lectr.  
 Brown, L. M., MSc *Brist.*, PhD  
*St. And.* (Tech. Maths.) Sr. Lectr.  
 Lawley, D. N., MA *Camb.*, DSc  
 (Stats.) Sr. Lectr.  
 Cossar, J., BA PhD *Camb.*, MA Lectr.  
 Mott, J. L., MA *Oxon.*, PhD Lectr.  
 Palmer, D. G., MA *Camb.* Lectr.  
 Mackenzie, G., BSc *St. And.* & *Lond.*  
 (Tech. Maths.) Lectr.  
 Fulton, J., MA PhD *Glas.* (Tech. Maths.) Lectr.  
 Heywood, P., MA DPhil *Oxon.* Lectr.  
 Lucas, A. R., MA (Tech. Maths.) Lectr.  
 Monk, D., MA PhD Lectr.

### Medicine and Surgery, see below

### Mining

McAdam, R., BSc PhD Hood Prof.  
 Gallaway, J., BSc Hon. Lectr.

### Music

Newman, S. T. M., MA *Oxon.*, MusD *Durb.*,  
 FRCO, FTCL Reid Prof.  
 Grierson, Mary, OBE, MusDoc Sr. Lectr.  
 Fairbairn, J., MusDoc Lectr.  
 Redlich, H. F., PhD Lectr.  
 Leighton, K., MA DMus Lectr.  
 Gal, H., MusDoc *Edu.*, PhilD *Vienna* Lectr.

### Natural History and Zoology

Swann, M. M., MA PhD Prof.  
 Mitchison, J. M., MA PhD Reader  
 Friend, G. F., MA *Oxon.*, BSc *Brist.*  
 (Cytol. & Exper. Zool.) Sr. Lectr.  
 Jones, B. M., DSc *Wales* Sr. Lectr.  
 Hale, I. J., BSc PhD *Lond.* Sr. Lectr.  
 Tuft, P. II., MA PhD *Camb.* Lectr.  
 Kettle, D. S., DSc *Lond.* Lectr.  
 Kille, R. A., BSc PhD Lectr.  
 Rayski, C., PhD (Helminthol.) Lectr.  
 Warwick, T., MSc Lectr.  
 Mitchison, N. A., MA DPhil *Oxon.* Lectr.  
 Adam, Mrs. Katherine M. G., BSc Lectr.  
 Manning, A. W. G., BSc *Lond.* Lectr.  
 5 Assts.



**Persian**

Elwell-Sutton, L. P., BA *Lond.* Sr. Lectr.

**Petrology**, see Geol.**Philosophy**

Walsh, W. H., MA *Oxon.* Prof.  
 Coxon, A. H., MA (Anc. P.) Sr. Lectr.  
 Fairweather, A. M., STM *U.T.S. (N.Y.)*,  
 MA Lectr.  
 Davie, G. E., MA DLitt Lectr.  
 2 Assts.

**Philosophy, Moral**, see also Psychol.

Barnes, W. H. F., MA *Oxon.* Prof.  
 Bedford, E., BA *Lond.* Lectr.  
 Broadie, F., MA PhD Lectr.  
 Ardal, P. S., MA Lectr.  
 Eveling, H. S., BA *Durh.*, BPhil *Oxon.* Lectr.  
 Harrison, J., MA *Oxon.* Lectr.  
 4 Assts.

**Philosophy, Natural**

Feather, N., BA PhD *Camb.*, BSc *Lond.*,  
 FRS Prof.  
 Kenner, N., DrPhil *Zur.*, MA, FRS Tant Prof.  
 Paton, J., MA BSc Reader  
 Ross, Marion A. S., MA PhD Reader  
 Evans, G. R., MSc PhD Sr. Lectr.  
 Sutton, H. C., MSc *N.Z.*, PhD *Durh.* Sr. Lectr.  
 Brown, A. F., MA PhD Sr. Lectr.  
 Kyles, J., MA Lectr.  
 Sillitto, R. M., BSc Lectr.  
 McIntosh, D. H., MA DSc Lectr.  
 Muir, J., BSc PhD Lectr.  
 Burns, J. G., BSc PhD Lectr.  
 Kennedy, P. J., BA *Dub.*, PhD *Lond.* Lectr.  
 Thomas, G. M., BSc PhD *Wales* Lectr.  
 Rae, A. G. A., BSc Lectr.  
 6 Assts.

**Phonetics**

Abercrombie, D., BA *Leeds* Reader  
 Uldall, Elizabeth T., BA *Col.*, MA *Lond.* Lectr.  
 Ladefoged, J. P., MA PhD Lectr.  
 Strevens, P. D., BA *Lond.* Lectr.

**Physics**, see Philos., Natural**Physiology**

Whitteridge, D., BSc DM *Oxon.*, FRS Prof.  
 Pickford, Mary, DSc *Lond.* Reader  
 Passmore, R., MA DM *Oxon.* Reader  
 Draper, M. H., MB BS *Adel.* Sr. Lectr.  
 Walsh, E. G., MA BM BCh BSc *Oxon.*,  
 MD *Harv.*, DTM&H *Liv.*, MRCP Sr. Lectr.  
 Dewar, A. D., BSc PhD *Lond.* Lectr.  
 Watt, J. A., BA *Oxon.*, MB ChB Lectr.  
 Haggis, G. H., MA *Camb.*, PhD *Lond.* Lectr.  
 Roberts, K. B., BA DPhil *Oxon.*, MB  
 BS *Lond.* Lectr.

Begbie, G. H., MA PhD MB ChB Lectr.  
 Astarabadi, T., MB ChB *Baghdad*, MSc Lectr.

**Political Economy**

Peacock, A. T., DSC, MA *St.And.*  
 (Econ. Sci.) Prof.  
 Stewart, I. G., MA *St.And. & Camb.* Sr. Lectr.  
 Smith, I., MA Sr. Lectr.  
 Wright, L. C., BA *Wales*, PhD Sr. Lectr.  
 Heughan, Hazel, MA Lectr.  
 Dosser, D. G. M., BSc(Econ) *Lond.* Lectr.  
 Johnston, T. L., MA PhD Lectr.  
 Winch, D. N., BSc(Econ) PhD *Lond.* Lectr.  
 2 Assts.

**Political Science**

Nobbs, D., MA *Camb.* Lectr.  
 Hamilton, Bernice M., MA PhD *Lond.* Lectr.

**Psychology**

Drever, J., MA Prof.  
 Collins, Mary, MA BED PhD, FBPsS Sr. Lectr.  
 McMahon, D., MA *Durh.* Sr. Lectr.  
 Semeonoff, B., MA BED PhD, FBPsS Sr. Lectr.  
 McKenzie, R. M., MA Lectr.  
 Cookson, Joyce, MA Lectr.  
 Donaldson, Margaret C., MA BED PhD Lectr.  
 Hunter, I. M. L., BSc DPhil *Oxon.* Lectr.  
 6 Assts.

**Russian**

Ward, D., BA *Camb.* Sr. Lectr.  
 Greene, Mrs. Militsa, Maglur *Riga*, PhD Lectr.

**Sanskrit and Comparative Philology**

Warder, A. K., BA PhD *Lond.* Regius Prof.  
 Lectr.

**Semitic Languages**, see Hebrew**Social Study**

Brown, Marjorie A., MA Sr. Lectr.  
 Burns, T., BA *Brist.* Sr. Lectr.  
 Gregor, Mary J. F., BSc PhD Lectr.  
 Browne, Margaret, BA *Lond.* Lectr.  
 Richmond, A. H., MA BSc Lectr.  
 Laughton, Vivienne O. Lectr.  
 Craig, Hewan, BA *McG.*, BLitt *Oxon.* Lectr.  
 Sinclair, Mrs. Susan, MA Lectr.  
 2 Assts.

**Statistics**, see Maths.**Technology, Chemical**

Calderbank, P. H., BSc PhD *Lond.* Prof.  
 Wilson, D. M., BSc PhD Sr. Lectr.  
 Macleod, N., BSc PhD Lectr.

**Theology**, see Div.**Turkish**

Walsh, J. R., BA *Lond.* Lectr.

**Veterinary Studies**, see below

**Zoology**, see Nat. Hist.

## AGRICULTURE AND FORESTRY

### Agricultural Bacteriology

Gibson, T., DSc Lectr.

### Agricultural Chemistry

Smith, A. M., PhD DSc, FRIC Lectr.

### Agriculture and Forest Entomology

McHardy, J. W., BSc Sr. Lectr.

Guild, W. J., PhD Lond., BSc Lectr.

### Agriculture and Rural Economy

Watson, S. J., CBE, DSc *Durh.*, FRIC Prof.

Gordon, J. E., OBE, BSc(Agr) BSc(For) PhD Sr. Lectr.

Knox, M. A., DipAgric *Oxon.*, BSc Sr. Lectr.

Cunningham, J. M. M., BSc Lectr.

Hayes, S. F., BSc, FLIS Lectr.

Holmes, J. C., BSc MS *Iowa* Lectr.

McEyer, R. M., BSc Dipl Animal Lectr.

Genetics Lectr.

Runcie, K. V., BSc MS *Corn.* Lectr.

Hatkins, J., BSc MA Lectr.

Nash, M. J., MSc PhD Lectr.

1 Asst.

### Animal Genetics

Waddington, C. H., CBE, MA ScD *Camb.*, DSc, FRS Prof.

Auerbach, Charlotte, PhD DSc, FRS Reader

Beale, G. H., MBE, BSc PhD *Lond.*, FRS Reader

Wood, B., MA PhD *Camb.* Sr. Lectr.

Clayton, Ruth M., BA *Oxon.* Lectr.

Meule, J. P., MA *Camb.* Lectr.

Schman, G. G., BSc PhD Lectr.

Kasser, H., MSc PhD Lectr.

Clayton, G. A., BSc PhD Lectr.

3 Assts.

### Forestry, see also Agric. and For. Entomol.

Anderson, M. L., MC, MA *Oxon.*, DSc Prof.

Harrison, J. L. Lectr.

Fairbairn, W., DSc Lectr.

Mutch, W. E. S., BSc PhD Lectr.

Taylor, C. J., MBE, ED, BSc PhD Lectr.

Gifford, D. R., BSc Lectr.

Finlayson, W., BSc Lectr.

Causens, J. E., BA *Camb.*, MA *Oxon.* Lectr.

Caborn, J. M., BSc PhD Lectr.

## DENTISTRY

### Dental Anatomy and Histology

Kemball, C. H., DDS *Penn.* Sr. Lectr.

Paterson, J. K. Asst.

### Dental Mechanics and Prosthetics

Watt, D. M., PhD Sr. Lectr.

Geddes, M. Lectr.

Macgregor, A. R. Lectr.

### Dental Surgery

Boyes, J., FRCSEd, FDSRCSEd, FDSRCS Prof.

Dixon, D. A., FDSRCS Lectr.

### Dental Surgery and Pathology and Dental Radiology

Bradshaw, A. R. Lectr.

### Extractions under General Anæsthesia

Dyce, P. J. B. Sr. Lectr.

Rose, G. M. Sr. Lectr.

### Local Anæsthetics

Duvall, A. E. Lectr.

### Operative Dental Surgery

Baxendine, W. P., OBE Sr. Lectr.

Beagrie, G. S. Lectr.

Waterston, W. Lectr.

McGibbon, D. M., LDS Lectr.

### Orthodontics

Hopkin, G. B. Sr. Lectr.

Dixon, D. A., FDSRCS Lectr.

### Periodontal Diseases

Beagrie, G. S. Lectr.

### Preventive Dentistry

Wallis, C. P., BSc LDS Lectr.

## LAW

### Administrative Law

McLarty, M. R., QC, MA *Camb.* Lectr.

Stout, C. H., BCom PhD Lectr.

1 Asst.

### Civil Law

Smith, T. B., QC, MA DCL *Oxon.*, Prof.

Hon. LL.D *Cape T.*, FBA Lectr.

Hamnett, T. G. I., MA *Oxon.*, LLB Lectr.

1 Asst.

### Constitutional Law, see Hist.

### Conveyancing

Henry, G. L. F., BL Prof.

Cameron, J. G. S., MA LLB †Lectr.

1 Asst.

### Evidence and Pleading

Dickson, W. F., MA LLB Lectr.

**Industrial Law**

Wylie, N. R., BA *Oxon.*, LLB Lectr.

**International Relations**

Wiskemann, Elizabeth, MA MLitt *Camb.*  
(until Sept. 30, 1961) Prof.  
Calder, R., CBE (from Oct. 1, 1961) Prof.

**Public Law**

Campbell, A. H., BCL *Oxon.*, LLM  
*Birm.*, MA *Oxon.* & *Edin.* Regius Prof.  
Cameron, J. T., BA *Oxon.*, LLB Lectr.

**Scots Law**

Montgomery, G. A., QC, MA LLB *Glas.* Prof.  
Paton, G. C. H., MA LLB Sr. Lectr.  
Maxwell, D., QC, MA LLB Lectr.  
Taylor, R. R., MA LLB PhD *Glas.* Lectr.  
Wilson, W. A., MA LLB *Glas.* Lectr.  
Bennett, R. A., MA LLB Lectr.  
4 Assts.

**MEDICINE**

(for subjs. of the first 2 yrs.—Anat., etc.,  
see above)

**Bacteriology**

Cruickshank, R., MD *Aberd.*, DPH  
*Edin.* & *Glas.*, FRCP R. Irvine Prof.  
Swain, R. H. A., MA MD *Camb.* Reader  
Duguid, J. P., BSc MD Reader  
Bowie, J. H., MB ChB, FRCPEd Sr. Lectr.  
Gould, J. C., BSc MD Sr. Lectr.  
Maccabe, A. F., MD DPH Hon. Lectr.  
Wallace, A. T., MD DPH Hon. Lectr.  
Coghlan, Mrs. Joyce D., BSc PhD Lectr.  
Wilkinson, J. F., MA PhD *Camb.* Lectr.  
Durie, T. B. M., MB ChB Lectr.  
Tonkin, R. W., MB ChB Lectr.  
Gillies, R. R., MD DPH Lectr.  
Constable, F. L., BSc MD *Durh.* Lectr.  
Collee, J. G., MB ChB Lectr.  
Robertson, M. H., MB ChB Lectr.  
McWilliam, Joan M., MB ChB DPH Lectr.  
Sleigh, J. D., MB ChB Lectr.  
Boissard, G. P., BSc MB BS *Lond.* Lectr.  
Davies, B. I., MB BS *Lond.* Lectr.

**Chemistry, Clinical**

Stewart, C. P., DSc *Durh.*, PhD Reader  
Tompsett, S. L., BSc *Lond.*, PhD DSc  
*Glas.*, FRIC Sr. Lectr.  
Easson, L. H., BSc PhD Sr. Lectr.  
Frazer, S. C., MB ChB BSc PhD Sr. Lectr.  
Crombie, J. D., BSc MB ChB DPH Lectr.  
Kapeller-Adler, Regina, PhD *Vienna*,  
DSc Lectr.  
Jocelyn, P. C., MA DPhil *Oxon.* Lectr.  
Albert-Recht, F., MB ChB Lectr.  
Thomson, C. G., BSc PhD Lectr.  
1 Asst.

**Child Life and Health**, see also Clin.  
Teaching Staff, below

Ellis, R. W. B., OBE, MA MD *Camb.*,  
FRCPEd, FRCP Prof.

Tait, H. P., MD DPH, FRCPEd

(Preventive Pædiatrics) Sr. Lectr.  
Forfar, J. O., MC, BSc MD *St. And.*,  
FRCPEd, MRCP Sr. Lectr.  
Farquhar, J. W., MD, FRCPEd Sr. Lectr.  
Thomson, J., MD DPH Lectr.  
Methven, Margaret, MB ChB MA Lectr.  
Watson, W. N. B., MB ChB Lectr.  
Ingram, T. T. S., MB ChB, MRCPEd Lectr.  
Drillien, C. Mary, MD Lectr.

**Dermatology**

Percival, G. H., DPH *Edin.* & *Glas.*,  
MD PhD, FRCPEd Prof.  
Hannay, P. W., MB ChB, FRCPEd Lectr.

**Eye, Diseases of the**, see Clin. Teaching  
Staff, below**Forensic Medicine**

Fiddes, F. S., OBE, MD Prof.  
Street, H. V., MSc *Birm.*, FRIC Sr. Lectr.

**General Practice Teaching Unit**

Scott, R., MD DPH Reader  
MacLean, D. W., MB ChB Lectr.  
McVic, D. H., MB ChB Lectr.  
Paterson, J. E., MA Lectr.  
McLaren, A. C., TD, MB ChB Lectr.  
Stokoe, I. H., MD, MRCP Lectr.  
McRobbie, I. S., MB ChB Lectr.  
Walker, J., MD Lectr.  
Blackadder, E. S., MB ChB Lectr.  
Lamont, L., MA MB ChB *Glas.* Lectr.  
Lipetz, S., MD Lectr.  
Thomson, W. P. Lectr.

**Gynæcology**, see Obstet. and Gynaecol**Infectious Diseases**

Murdoch, J. M., FRFPGlas Sr. Lectr.

**Laryngology, Otology and Rhinology**,  
see Clin. Teaching Staff, below**Materia Medica**

Perry, W. L. M., OBE, DSc MD *St. And.* Prof.  
Adam, H., MB ChB Sr. Lectr.  
Brocklehurst, W. E., BPharm BSc  
PhD *Lond.* Sr. Lectr.  
Crawford, T. B. B., BSc PhD Lectr.  
Stephenson, R. P., BSc *Birm.* & *Oxon.* Lectr.  
Barlow, R. B., MA BSc DPhil *Oxon.* Lectr.

**Medicine**, see also Clin. Teaching Staff, below

Donald, K. W., DSc, DSc *Birm.*, MA  
MD *Camb.*, FRCP Prof.  
Gilchrist, A. R., MD, FRCP, FRCPEd  
(Clin. Cardiol.) Reader  
Card, W. I., MD *Lond.*, FRCPEd, FRCP Reader

Girdwood, R. H., MD PhD, FRCPEd, FRCP Reader  
 Turner, R. W. D., OBE, MA MD *Camb.*, FRCPEd, FRCP Sr. Lectr.  
 Meiklejohn, A. P., MA BSc DM *Oxon.* (Nutrition) Sr. Lectr.  
 Duthie, J. J. R., MB ChB *Aberd.* (Rheumatol.) Sr. Lectr.  
 French, E. B., BA MB BChir *Camb.* Sr. Lectr.  
 Strong, J. A., MBE, BA MB BCh BAO *Dub.*, FRCPEd, MRCP Sr. Lectr.  
 Simpson, J. A., MB ChB *Glas.*, MRCP, FRFPSSGlas Sr. Lectr.  
 Innes, J., MD, FRCPEd Lectr.  
 MacLeod, J. G., MB ChB, FRCPEd Lectr.  
 Sinclair, R. J. G., FRCPEd Lectr.  
 Richmond, J., MB ChB, MRCP Lectr.  
 Marquis, R. M., MBE, MB ChB, FRCPEd Lectr.  
 Sircus, W., PhD *Sheff.*, MD *Liv.*, MRCP Lectr.  
 Matthews, M. B., MD, MRCP Lectr.  
 Sutherland, G. R., MB ChB, MRCPEd Lectr.  
 Stanton, J. B., MA MB BChir *Camb.*, DPM *Lond.*, MRCP Lectr.  
 Taylor, S. H., BSc MB ChB Lectr.  
 2 Assts.

**Medicine, Clinical**, see Clin. Teaching Staff, below

**Mental Diseases**, see Psychol. Med.

### Neurological Surgery

Dott, N. M., CBE, MB ChB, FRCSEd Prof.  
 Gillingham, F. J., MBE, MB BS *Lond.*, FRCSEd, FRCS S Lectr.

### Neurology, Clinical

Slater, J. K., OBE, MD, FRCPEd Lectr.

**Obstetrics and Gynaecology**, see also Clin. Teaching Staff, below

Kell, R. J., MBE, MB ChB, FRCSEd, FRCPEd, FRCOG Prof.  
 Matthew G. D., MB ChB, FRCSEd, FRCOG Reader  
 Anderson, A. F., BSc MB ChB, FRCSEd, FRCOG Lectr.  
 MacGregor, T. N., MD, FRCSEd, FRCOG (Gynaecol. Endocrinol.) Lectr.  
 Scandrett, F. J., BSc PhD Lectr.  
 Kennedy, C. D., MB ChB, FRCSEd, FRCOG Lectr.  
 Irvine, D. J. M., MB ChB †Lectr.  
 Dunlop, J. C. H., BA BM BCh *Oxon.* Hon. Lectr.  
 Mackay, Rachel B., MD Lectr.  
 Myerscough, P. R., MB ChB, FRCSEd Lectr.

### Ophthalmology

Scott, G. I., MA MB ChB, FRCSEd Prof.

Stokoe, N. L., MB ChB, FRCSEd, FRACS Hon. Lectr.  
 McAuliffe, D. J., MB BS *Adel.*, FRCSEd Lectr.

### Orthopaedic Surgery

James, J. I. P., MB MS *Lond.*, FRCS Prof.  
 Savill, D. L., MB ChB, FRCSEd Lectr.  
 Dick, I. L., MD ChM, FRCSEd Lectr.  
 Mitchell, G. P., MC, MB ChB, FRCSEd Lectr.  
 Chalmers, J., MB ChB, FRCS Lectr.  
 Scott, J. H. S., FRCS Sr. Lectr.

### Pathology, see also Anat. and Bacteriol.

Montgomery, G. L., TD, PhD *St. And.*, MD *Glas.*, FRFPSSGlas Prof.  
 Ogilvie, R. F., MD DSc, FRCPEd Reader  
 Williams, A. W., DCP *Lond.*, MD PhD Sr. Lectr.  
 Maloney, A. F. J., BSc MB ChB, FRCPEd Sr. Lectr.  
 Davidson, J., MB ChB, FRCPEd Sr. Lectr.  
 MacDonald, Mary K., MB ChB, MRCPEd Lectr.  
 McGregor, J. D., MB ChB Lectr.  
 Barrett, J. S., MC, MB ChB Lectr.  
 Gardner, D. L., MA PhD *Camb.*, MD, MRCPEd Lectr.  
 Stuart, A. E., MB ChB, MRCPEd Lectr.  
 Allan, W. S. A., MB ChB, MRCPEd Lectr.  
 Nagle, R. S., MB ChB DTM&H Lectr.  
 Hunt, W. E., MA BM BCh *Oxon.* Lectr.  
 Smith, I. I., MB ChB Lectr.  
 Black, J. W., MB ChB Lectr.

### Psychological Medicine

Carstairs, G. M., DPM *Lond.*, MA MD, FRCPEd Prof.  
 Fish, F. J., MB BS DPM *Lond.*, MRCP Sr. Lectr.  
 Robertson, Elizabeth, MA *Aberd.*, DPM *Lond.*, MB ChB, FRCPEd Lectr.  
 Drewery, J., MA Lectr.  
 Forrest, A. D., MB ChB *St. And.*, DPM *Lond.*, MRCP Hon. Lectr.  
 Fawcett, P. G., MB BS *Durh.*, DPH Lectr.  
 Oswald, I., MA MD Lectr.  
 Kiernan, W. E. S., MB BCh BAO *Belf.*, MRCPEd Lectr.

### Public Health and Social Medicine

Brotherston, J. H. F., DrPH *Johns H.*, DPH *Lond.*, MA MD, FRCPEd Prof.  
 Douglas, J. W. B., BA BSc BM BCh *Oxon.* Reader  
 Seiler, H. E., MD *Glas.*, DPH *Camb.*, FRCPEd Sr. Lectr.  
 Hobson, B. M., BSc *Aberd.*, PhD Sr. Lectr.  
 Mansbridge, J. N., PhD Sr. Lectr.  
 Martin, F. M., BA PhD *Lond.* Sr. Lectr.  
 Sklaroff, S. A., BSc Lectr.  
 Mills, A. R., DPH Lectr.  
 Cameron, D., MB ChB DPH Lectr.  
 Gilloran, J. L., MB ChB *Glas.*, DPH *Liv.* Lectr.  
 Kinnaird, J., MA BI, CA Lectr.

Mair, J. M., MB ChB DPH  
Robinson, Col. J. E. C.

Lectr.  
Lectr.

Stewart, R. L., MB ChB, FRCSEd  
Adamson, W. A. D., MB ChB, FRCSEd  
Macpherson, A. I. S., MB ChM, FRCSEd  
Cameron, J. R., FRCSEd

### Radiology

McWhirter, R., MB ChB *Glas.*, DMRE *Camb.*,  
FRCSEd, FFR Prof.

### Surgery, see also Clin. Teaching Staff, below

Bruce, J., CBE, MB ChB, FRCSEd  
(Clin. S.) Prof.

Woodruff, M. F. A., BEE MD MS *Melb.*,  
FRCSEd, FRCS, FRACS  
(Surgical Sci.) Prof.

Band, D., MB ChB, FRCSEd  
(Urological S.) Reader

Wallace, A. B., MSc *McG.*, MB ChB,  
FRCSEd (Plastic S.) Reader

Brown, J. J. M., OBE, MB ChB, FRCSEd  
(Paediatric S.) Reader

Logan, A., MA MB ChB *St. And.*, FRCSEd,  
FRCS (Thoracic S.) Reader

Sinclair, I. S. R., MB ChB, FRCSEd Sr. Lectr.  
Macpherson, A. I. S., MB ChM, FRCSEd

Smith, A. N., MD *Glas.*, FRCSEd Lectr.  
Falconer, C. W. A., MB ChB, FRCSEd Lectr.

McNair, T. J., MB ChB, FRCSEd, FRCS Lectr.

Thomson, J. W. W., FRCS Lectr.

### Therapeutics

Dunlop, Sir Derrick M., BA *Oxon.*, MD,  
FRCPEd, FRCP Prof.

Robson, J. S., MD, MRCPed Sr. Lectr.  
Duncan, L. J. P., BSc MB ChB, MRCPed Lectr.

### Tropical Climates, Diseases of

Wright, F. J., MA MD *Camb.*, FRCPEd,  
FRCP Sr. Lectr.

Lambie, Anne T., MB ChB, MRCP Lectr.

### Tuberculosis

Crofton, J. W., MD BChir MA *Camb.*,  
FRCP, FRCPEd Prof.

Horne, N. W., MB ChB, FRCPEd Lectr.

Ross, J. D., MPH *Johns H.*, MB ChB,  
FRCPEd Lectr.

1 Asst.

### Venereal Diseases

Lees, R., MD, FRCPEd Lectr.  
Murrell, Marjory, MB BS *Lond.* Asst.

## CLINICAL TEACHING STAFF

### ROYAL INFIRMARY—

#### Clinical Surgery

##### Surgeons-in-Charge

Bruce, Prof. J., CBE, MB ChB, FRCSEd  
Woodruff, Prof. M. F. A., BEE MD MS *Melb.*,  
FRCSEd, FRCS, FRACS

### Clinical Medicine

#### Physicians-in-Charge

Dunlop, Prof. Sir Derrick M., BA *Oxon.*, MD,  
FRCPEd, FRCP

Donald, Prof. K. W., DSC, DSc *Birm.*, MA  
MD *Camb.*, FRCP

Gilchrist, A. R., MD, FRCP, PRCPed

Todd, T. R. R., MD, FRCPEd

Slater, J. K., OBE, MD, FRCPEd

Cameron, J. D. S., CBE, TD, MD, FRCPEd,  
MRCP

Lyon, R. M. M., MD, FRCPEd

#### Physicians

Lamb, W. L., TD, MB ChB, FRCPEd

Hamilton, J. G. M., MB ChB, FRCPEd

Croom, J. H., BA *Camb.*, MB ChB, FRCPEd

Robertson, C. K., MD, FRCPEd

Batty, D. M. F., MB ChB, FRCPEd

Innes, J., MD, FRCPEd

Matthew, H. J. S., MB ChB, FRCPEd

Marquis, R. M., MBE, MB ChB, MRCPed

Matthews, J. D., BA *Camb.*, MB ChB, MRCPed

#### Associate Physicians

Girdwood, R. H., MD PhD, FRCP, FRCPEd

Robson, J. S., MD, MRCPed

### Clinical Obstetrics and Clinical Gynaecology

#### Obstetricians and Gynaecologists-in-Charge

Kellar, Prof. R. J., MBE, MB ChB, FRCSEd,  
FRCPEd, FRCOG

Sturrock, J., MB ChB, FRCSEd, FRCOG

Kennedy, C. D., MB ChB, FRCSEd, FRCOG

#### Obstetricians and Gynaecologists

Liston, W. A., MB ChB, FRCSEd

Matthew, G. D., MB ChB, FRCSEd, FRCOG

Callam, W. D. A., MB ChB, FRCSEd

Irvine, D. J. M., MB ChB

Myerscough, P. R., MB ChB, FRCSEd

Pearson, J. G., MB ChB *Leeds*, FRCS, FFR

Tur

### Ophthalmology

#### Surgeons-in-Charge

Scott, Prof. G. I., MA MB ChB, FRCSEd  
Paterson, J. R., MB ChB, FRCSEd

**Surgeons**

Macaskill, J., MB ChB, FRCSEd  
 Jackson, C. R. S., MA BM BCh *Oxon.*, FRCSEd  
 Benibridge, B. A., MD

**Ear, Nose and Throat****Surgeons-in-Charge**

Hall, I. S., MB ChB, FRCPEd, FRCSEd  
 Stewart, J. P., MD, FRCSEd

**Surgeons**

Smith, A. B., MD DPH *Glas.*, FRCS  
 Farquharson, I. M., MB ChB, FRCSEd  
 Lumsden, R. B., TD, MB ChB, FRCSEd  
 McDowall, G. D., MB ChB, FRCSEd

**Dermatology****Physicians-in-Charge**

Percival, Prof. G. H., DPH *Edin. & Glas.*, MD  
 PhD, FRCPEd

Peterkin, G. A. G., MBE, MB ChB, FRCPEd

**Physician**

Hannay, P. W., MB ChB, FRCPEd

**ROYAL HOSPITAL FOR SICK CHILDREN—****Pediatricians-in-Charge**

Ellis, Prof. R. W. B., OBE, MA MD *Camb.*,  
 FRCP, FRCPEd

Nicholson, D. N., TD, MB ChB, FRCPEd  
 Dott, E. F., MB ChB DPH, FRCPEd

**Pediatricians**

Miller, R. A., MA PhD MD, FRCPEd  
 Douglas, D. M., MD BS *Lond.*, MRCP

**Surgeon-in-Charge**

Brown, J. J. M., OBE, MB ChB, FRCSEd

**Surgeons**

Mackay, Rosamund M. I., MB BS *Lond.*,  
 FRCSEd

Roberts, F. H., MB ChB, FRCSEd

**Ear, Nose and Throat**

..... Surgeon-in-Charge  
 Birrell, J. F., MD, FRCSEd Surgeon

**Plastic Surgery**

Wallace, A. B., MSc *McG.*, MB ChB,  
 FRCSEd Surgeon

**WESTERN, NORTHERN AND EASTERN GENERAL  
HOSPITALS****Medical Unit****Physicians-in-Charge**

Turner, R. W. D., OBE, MA MD *Camb.*, FRCP,  
 FRCPEd

Card, W. I., MD *Lond.*, FRCPEd, FRCP  
 Duthie, J. J. R., MB ChB *Aberd.*, FRCPEd

Simpson, J. A., MB ChB *Glas.*, MRCP,  
 FRFPGlas

Bruce, J. A., MB ChB, FRCPEd  
 Wright, F. J., MA MD *Camb.*, FRCPEd, FRCP

**Physicians**

Slater, J. G., BSc MB ChB, FRCPEd  
 Strong, J. A., MBE, BA MB BCh BAO *Dub.*,  
 MRCP

MacLeod, J. G., MB ChB, FRCPEd

Sinclair, R. J. G., FRCPEd

Stanton, J. B., MA MB BChir *Camb.*, DPM  
*Lond.*, MRCP

Sircus, W., MD *Liv.*, PhD *Sheff. & Edin.*, MRCP

Matthews, M. B., MA MD, MRCP

French, E. B., BA MB BChir *Camb.*, MRCP

Grant, I. W. B., MB ChB, FRCPEd

**Surgical Unit****Surgeons-in-Charge**

Band, D., MB ChB, FRCSEd

Logan, A., MA MB ChB *St. And.*, FRCSEd,  
 FRCS

Falconer, C. W. A., MB ChB, FRCSEd

**Surgeons**

Tulloch, W. S., MB ChB, FRCSEd

Wade, J. D., MB ChB, FRCS

McCormack, R. J. M., MB ChB, FRCSEd

Small, W. P., MB ChB, FRCSEd, MRCPed

Walbaum, P. R., MB ChB, FRCSEd

Smith, A. N., MD *Glas.*, FRCSEd

**Obstetrics and Gynæcology Unit****Obstetricians and Gynaecologists-in-Charge**

Laston, W. A., MC, TD, BA *Camb.*, MB ChB,  
 FRCSEd, FRCPEd, FRCOG

Matthew, G. D., MB ChB, FRCSEd, FRCOG

MacGregor, T. N., MD, FRCSEd

Anderson, A. F., BSc MB ChB, FRCSEd,  
 FRCOG

Mverscough, P. R., MB ChB, FRCSEd

Pearson, J. G., MB ChB *Leeds*, FRCS, FFR

**Pædiatrics****Pædiatrician-in-Charge**

Forfar, J. O., MC, BSc MB ChB *St. And.*,  
 FRCPEd, MRCP

**ROYAL (DICK) SCHOOL OF  
VETERINARY STUDIES****Veterinary Anatomy**

Grahame, T., TD, FRCVS	Reader
Taylor, J. A., FRCVS	Sr. Lectr.
Morris, P. G. D., MA	Lectr.
Speed, J. G.	Lectr.
Stokoe, W. M., BSc PhD	Lectr.

**Veterinary Bacteriology**

Taylor, A. W., PhD DSc	Sr. Lectr.
Phillips, J. E., BSc	Lectr.
Burrows, R., BSc	Lectr.
Fraser, G., BSc PhD	Lectr.

**Veterinary Hygiene**

Robertson, A., MA BSc PhD, FRIC	Prof.
Chalmers, A.	Sr. Lectr.

Ferguson, G. S., BSc DVSM  
 Moodie, E. W., BSc PhD  
 Paver, H., BSc PhD  
 Robertson, I. S., BSc PhD  
 Wilson, J. E., BSc  
 Maule, J. P., MA DipAgric *Camb.*,  
 AICTA  
 Graham-Marr, T., BSc

Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.  
 †Lectr.

†Lectr.  
 Lectr.

### Veterinary Jurisprudence

Mackenzie-Stuart, A. J., BA *Oxon.*, LLB Lectr.

### Veterinary Medicine

Boddie, G. F., BSc  
 McPherson, E. A., MSc  
 Gregor, W. W.  
 McTaggart, H. S., BA BSc

Prof.  
 Sr. Lectr.  
 Lectr.  
 Lectr.

### Veterinary Pathology

Beattie, I. S., BSc  
 Head, K. W., BSc  
 Whitney, J. C.  
 Gellatly, J. B. M., BSc

Sr. Lectr.  
 Lectr.  
 Lectr.  
 Lectr.

### Veterinary Pharmacology

Alexander, F., PhD DSc

Reader

### Veterinary Physiology

Elliot, F. J., MSc PhD, FRIC  
 Lundy, H., BSc  
 Lamb, J. F., MB ChB BSc PhD

St. Lectr.  
 Lectr.  
 Lectr.

### Veterinary Practice Teaching Unit

MacLennan, W.  
 Withers, A. R., BSc  
 Mitchell, A. W.  
 Davidson, C. B.

Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 Lectr.

### Veterinary Surgery

Spreull, J. S. A., PhD  
 Burgess, J. W.  
 Fraser, J. A., BSc

Prof.  
 Sr. Lectr.  
 Lectr.

### GIFFORD LECTURER IN NATURAL THEOLOGY

(held for 2 yrs.)

1961-62—J. Baillie

### EXTRA-MURAL STUDIES

Hossack, J., MA BCom  
 Barclay, J. B., MA  
 McNee, Mrs. Charlotte R., MA  
 Chisholm, J., MA

Dn  
 st Dn  
 Lectr.  
 Tutor-Or

## ADMINISTRATIVE AND OTHER STAFF

UNIVERSITY OFFICE. Asst. Secs.: L. D. Macmillan, BL; J. Macpherson, DFC, MA LLB; R. Maxwell Young, TD, BL; P. McIntyre, MA.

SR. ADMINISTRATIVE OFFICERS. Fac. of Arts, J. M. MacFarlane, MA *Aberd.*, BLitt *Oxon.*; Fac. of Med., D. H. Wood, MA; Fac. of Sci., M. Robson, BSc.

ASSISTANT ACCOUNTANT. D. I. Cameron, BL *Glas.*, CA.

UNIVERSITY LIBRARY. Dep. Librarian, J. C. Corson, MA PhD; Keeper of Manuscripts, C. P. Finlayson, MA.

UNIVERSITY CHAPLAIN. Rev. J. C. Blackie, STM U.T.S. (N.Y.), BD.

DIRECTOR OF STUDENT ACCOMMODATION AND WELFARE OFFICE. Diana C. Matchett.

DIRECTOR OF PHYSICAL EDUCATION. I. F. Liddell, BA *Leeds*.

UNIVERSITY ORGANIST. H. Bunney, BMus, FRCO.

MASTER OF WORKS. J. Hamilton.

WARDENS OF HOSTELS. Cowan House, C. A. Lyall, BSc; Salisbury Green, Mrs. Charlotte L. Lindsay; Masson Hall, Elizabeth L. Garrick, BSc; Muir Hall, Margaret Crosland, MA *Camb.*; St. Leonard's House, Mrs. Margaret Macdonald; Univ. Settlement, B. J. Ashley, BSc(Econ) *Leid.*; Craigmillar Park Hostels, M. B. Fergusson, MA; Holland House, D. Bullough, MA *Oxon.*

## CONSTITUENT COLLEGE

NEW COLLEGE, The Mound, Edinburgh (tel.: Caledonian 4272). Founded in 1846 by the Free Church of Scotland: from 1900 a Divinity Hall of the United Free Church of Scotland, and from 1929 of the reunited Church of Scotland in union with the Divinity Hall of the Church of Scotland as previously constituted by the univ. fac. of div.; the seat of the fac. of div. in the univ. as enlarged after 1929, owned and maintained by the Church of Scotland, and accommodating the ordinary

and the postgrad. courses in theol. Principal and Dean of Fac., Rt. Rev. Prof. J. H. S. Burleigh, BLitt *Oxon.*, DD *Aberd.*, MA BD; Sec., Rev. Prof. N. W. Porteous, MA DD. *Staff*: the Profs. and Lectrs., see p. 1235. *Librarian*: Rev. J. A. Lamb, PhD (over 100,000 vols. in the collection). CHRISTIAN SOCIOLOGY: Rev. W. S. Tindal, OBE, MA DD *Glas.*, Warden of New College Settlement. ELOCUTION: Miss Balfour Brown.

## AFFILIATED COLLEGE

**HERIOT-WATT COLLEGE**, Chambers St., Edinburgh, 1 (tel.: Central 7121-2-3). Founded as sch. of arts, 1821; present title adopted, 1885. Affiliated to the Univ. of Edinburgh, 1933. Chairmen of governors, the lord provost of Edinburgh. *Principal*, H. B. Nisbet, PhD DSc *Edin.*, FRIC. The coll. provides instructn. in day and evg. classes for those following or proposing to follow technical careers in civil engin., mech. engin., electr. engin., mining engin., appl. chem., chem. engin., maths., phys., brewing, pharmacy, bldg. and printing. Evg. courses are also provided in management studies, comm. and langs. Spec. courses arranged for res. students. Degree courses for BSc of Edinburgh Univ. in mining engin. and in chem. technol. Associateships for full-time day study in civil engin., mech. engin., electr. engin., mining engin., appl. chem., chem. engin., brewing and appl. biochem., appl. pharmacy, appl. phys., appl. maths. and bldg. Cert. courses in brewing, pharmacy and printing; commercial teachers' dipl. course. Mine rescue str. available for instructn. of day students. The coll. is authorized by the Home Office to grant certs. to mine firemen, exams. being arranged at various centres in the Lothians, Fife and Clackmannan.

Entrance exams. in April and June. Exemption granted to students who hold the leaving cert. of the Scottish Educn. Dept., or have passed the Scottish univs. prelim. exam., or satisfy the principal as to the adequacy of their general educn.

Students holding a degree in pure or appl. sci. of a recog. univ. or the Heriot-Watt Coll. associateship or a similar qualif. of another technical coll. may be admitted for spec. study for the coll. fellowship.

**Fees:** Entrance exam., £1: 1s. Admission direct to 2nd or 3rd yr. courses, 30s. Matric. fee for each session, degree, see p. 1248; dipl. and cert., £1: 10s. for full-time students; others, 10s. Tuition fees: brewing, engin., mech., civil or electr. engin., mining engin., appl. chem., chem. engin., £50 p.a.; appl. pharm., appl. phys., appl. maths., tech. biochem., bldg., £50 p.a. Tuition fees for cert. courses: pharm., brewing, £50 p.a.; printing, £43: 15s. p.a.; commercial teachers' dipl., £45 p.a.

**STAFF:** CHEM., Prof. F. Bell, PhD DSc *Lond.*, FRIC; 3 Sr. Lectrs., 5 Lectrs. CHEM. ENGIN., Prof. P. H. Calderbank, BSc PhD *Lond.*; 1 Sr. Lectr., 4 Lectrs. BREWING & APPL. BIOCHEM., Prof. I. A. Preece, PhD DSc *Birm.*, FRIC; 3 Lectrs. ENGIN., ELECTR., Prof. M. G. Say, DIC, PhD MSc *Lond.*; Asst. Prof. E. O. Taylor, DIC, BSc *Lond.*; 2 Sr. Lectrs., 4 Lectrs. ENGIN., MECH., Prof. W. G. Green, BSc PhD *Lond.*; Asst. Prof. W. L. Bride, MScTech BSc *Manc.*; 3 Sr. Lectrs., 7 Lectrs. ENGIN., MINING, Prof. R. McAdam, BSc PhD *Edin.*; 1 Sr. Lectr., 4 Lectrs. MATHS., R. Smart, MA *St. And.*; 2 Sr. Lectrs., 3 Lectrs. PHYS., Prof. W. H. J. Childs, DSc *Lond.*, FIP; Asst. Prof. R. Milligan, BSc; 4 Lectrs. BLDG., N. C. Sidwell, MSc *Lond.*, PhD *Edin.*; 3 Lectrs. PHARMACY, H. H. Campbell, BSc *Edin.*, FRIC; 1 Sr. Lectr., 4 Lectrs. INDUST. ADMIN., J. Gloag, BCom *Lond.*, FCIS; 1 Sr. Lectr., 3 Lectrs. PRINTING, F. P. Restall; 5 Lectrs. In addition, 205 visiting lecturers and instructors.

Students (1959-60): 589 full-time day students, 639 pt.-time day students and 2171 evg. students. 596 of the students were studying for univ. or equivalent qualifs.

## ASSOCIATED COLLEGE

in which university courses are provided

**THE EDINBURGH SCHOOL OF AGRICULTURE**, The King's Buildings, West Mains Rd., Edinburgh, 9 (telegrams: Rural, Edinburgh; tel.: Edinburgh 44451) *Principal*: Prof. S. J. Watson, CBE, DSc *Durh.*, FRIC; *Deputy Principal & Dir. of Studies*: J. E. Gordon, OBE, BSc(Agric) BSc(For) *Aberd.*, PhD. AGRIC. & RURAL ECON., Prof. S. J. Watson; Sr. Lectr., J. E. Gordon; Lectrs., M. A. Knox, DipAgric *Oxon.*, BSc, S. F. Hayes, BSc (Hortic. Crops), J. M. M. Cunningham, BSc, K. V. Runcie, BSc MS *Corn.*, J. C. Holmes, BSc MS *Inwa.*, J. Harkins, BSc, M. J. Nash, MSc PhD. AGRIC. ECON. & FARM ACCOUNTING, Hd. of Dept., J. D. Nutt, BA, and Assts. AGRIC. ENGIN., SURVEYING & BLDG. CONSTRUCTION, Hd. of Dept., L. M. Walker, BSc; Lectrs., A. Hardie, BSc, M. F. J. Hawker, MSc. BACTERIOLOG., Hd. of Dept., T. Gibson, DSc; Lectr., A. J. Holding, MS *Wis.*, BSc PhD. BOT., Lectrs., L. S. Copley, BSc, AICTA, P. C. Harper, BSc PhD; Asst. Lectr., J. H. Lennard, BSc PhD.

CHEM., Hd. of Dept., A. M. Smith, PhD DSc, FRIC; Lectrs., H. Tod, BSc PhD, P. McDonald, MSc PhD, R. A. Edwards, BSc, J. F. D. Greenhalgh, MA *Camb.*, MS *Ill.*, PhD. FOR. (Edin. Univ. for. dept.), Prof. M. L. Anderson, MC, MA *Oxon.*, DSc, and Assts. HORTIC., Hd. of Dept., J. Bruce; Lectr., S. F. Hayes, BSc; Demr., P. N. Linton. VET. SCI. (Royal (Dick) Sch. of Vet. Studies), Prof. A. Robertson, MA BSc PhD, FRIC, and Assts. ZOOLOG., Lectrs., J. W. McHardy, BSc, E. Dunn, BSc, P. Osborne, BSc MS *Calif.*, PhD. 9 Specialist Advisory Officer Depts. (bot. and plant pathol., bacteriol., entomol., econ., chem., vet. sci., farm bldgs., statistics, beekeeping), with graduate staff of 37. Extension Staff: Regional Directors, G. A. Catto, BSc, A. K. M. Meiklejohn, BSc; and 46 Assts.

Students (1959-60): 178 full-time students, of whom 58 were reading for univ. qualifs.; 31 univ. students for pt. instructn.; 291 evg. students.



## GENERAL INFORMATION

The Univ. of Edinburgh was originally 'the Town's College', founded in 1583 by the town council of Edinburgh, under general powers granted by a charter of King James VI, dated April 14, 1582. From the first the coll. possessed the privilege of conferring degrees. This privilege was ratified by the 'act of confirmation', passed in 1621, which secured to the 'College of James VI' (as it had come to be called) all the rights, immunities and privileges enjoyed by the other univs. of Scotland. Gradually, in acts of the general assembly, of the town council, and of parliament, the 'College of James VI' came to be styled 'the University of Edinburgh'; but it remained under the control and patronage of the town council until 1858, when, by the Universities (Scotland) Act, all the univs. of Scotland received new and autonomous constitutions.

The old coll. on the site of 'Kirk o' Field', the scene of the murder of Lord Darnley, was designed by Robert Adam and William Playfair, and completed in 1828. Newer bldgs. incl. the med. bldgs., the McEwan Hall, and the King's Bldgs. for chem. and other sci. depts. The med. sch. has been famous for over two cents.; specially ample provision exists also for instruct. and res. in theol., agric., for., engin., mining, chem. technol., and biophys.

Royal (Dick) Veterinary Coll., Summerhall, Edinburgh, 9 (tel.: 41087/8; telegrams: Veter, Edinburgh). Founded 1823, became sch. of vet. studies within the univ., 1951 (*see* p. 1243).

CONSTITUTION. By the Universities (Scotland) Act, 1889, the univ. court was constituted a body corporate; it administers the whole univ. property. The *senatus academicus* regulates teaching and discipline; the general council is empowered to make representations to the court on all questions affecting the univ.'s prosperity. The chancellor, elected by the general council for life, is pres. of the general council and nominates an assessor in the univ. court. The vice-chancellor is nominated by the chancellor. The principal, elected by the curators for life, is pres. of *senatus*; in the absence of the rector he presides at meetings of univ. court, and in the chancellor's and rector's absence, at statutory meetings of general council. The rector, elected by matriculated students for 3 yrs., is pres. of univ. court, and appoints an assessor to it. The court comprises rector, principal, lord provost of Edinburgh, assessor nominated by chancellor, by rector and by town council; 4 assessors elected by *senatus* and 4 by general council. The *senatus* comprises principal, profs. and certain readers and lectrs. The general council consists of chancellor, members of court, profs. and grads. of univ., as well as readers and lectrs. of at least 1 yr.'s standing.

INCOME (1958-59). Total income, £2,309,655 (govt. grants, 73.7 per cent.; fees, 11.7 per cent.; endowments, 3.1 per cent.; other sources, 11.5 per cent.).

LIBRARY. Founded in 1580; about 700,000 vols., 4000 MSS. and 3000 charters. The MSS. incl. the Laing MSS. (Scottish and Norse), Laing charters, 854-1837 (chiefly Scottish), Arabic and Persian MSS. The chief spec. book collections are the Drummond of Hawthornden (16th-cent. lit.), Halliwell-Phillipps (Shakespeare), Lord Abercromby (archæol., ethnol.), Blackie (mod. Greek), Bruce (oceanog.), Cameron, Mackinnon and Carmichael-Watson (Celtic), Hodgson (econ.), Berriedale Keith (Indian hist. & lit., and the constitution of the British empire). There is a good med. collection and the valuable Reid music library. There are publ. catalogues of *Printed Books* (3 vols., 1918-23), *Lang Charters* (1890), *Western Mediaeval MSS.* (1916), *Arabic & Persian MSS.* (1925) and *Music* (1941).

MUSEUMS. Nat. philos., fine art, geol., nat. hist., chem., for., agric., entomol. and for. zool. (Waterhouse collection of coleoptera), anat. (founded with the Monro collection in 1800; numerous specimens of cetacea and human crania), physiol., mat. med. (notable collections of medicinal and food substances, incl. those of Duncan and Christison), forensic med., pathol. surg., obstet. (Simpson collection), music and musical instruments. The prof. of astron. is astronomer royal for Scotland and gives practical courses at the *Royal Observatory*.

THE LABORATORIES are especially well equipped for res. in anat., anthropol., bacteriol., chem. (the labs. at King's Bldgs. have accomm. for about 400 students), zool., mining, engin. (notably hydraulics, strength of materials, electr. engn.), nat. med., pathol., phys., physiol., psychol., pub. health. The Jane Findlay Thomson comm. lab. facilitates the training of BCom students in practical business methods. The univ. has a table at the Millport marine stn. The Tate Inst., opened in 1955, provides facilities for res. in mathl. phys.

SCH. OF APPL. DYNAMICS. In addn. to carrying out res. the sch. offers courses of instruct. leading to the dipl. in appl. dynamics. Hd. of sch.: G. B. Warburton, MA PhD.

SCH. OF SCOTTISH STUDIES. The res. staff of the sch. is engaged on the recording and study of folk-lore, folk tale, folk song and music, material culture, place names and the soc. structure of rural communities. Limited accomm. is available for postgrad. res. students pursuing these subsj. Dir.: B. R. S. Megaw, BA Camb., FSA.

SCH. OF APPL. LINGUISTICS. The primary objects of the sch. are to conduct res. and to provide experienced overseas teachers, particularly those who are actively concerned with the control of Engl. teaching policy and the trg. of teachers, with an intensive course in general and appl. linguistics, phonetics, educnl. psychol. and the methodol. of lang. teaching, and in methods of res.

in these fields. The res. programme of the sch. includes fundamental work in relevant aspects of general linguistics, psycholinguistics and phonetics as well as more immediately applicable res. on particular problems of Engl. teaching methodol. Dir.—J. C. Catford, BA *Lond*.

UNIVERSITY THEATRE. One floor of Adam House, the univ.'s exam. halls which were opened in 1955, is equipped as a theatre.

HOSPITALS. Royal Infirmary adjoining the univ. provides over 1000 beds for clin. teaching; Children's, Maternity and Fever Hosps., Royal Mental H., Royal Victoria H. for Tuberculosis, and Northern Group hosps.

FACULTIES AND DEANS. *Arts*, Prof. D. Hay (mediev. hist.); *div.*, Rt. Rev. Prof. J. H. S. Burleigh (eccles. hist.); *law*, Prof. A. H. Campbell (pub. law); *med.*, Prof. J. H. F. Brotherston (pub. health); *music*, Prof. S. T. M. Newman; *sci.*, Prof. E. L. Hirst (org. chem.).

There are 12 dirs. of studies in the fac. of arts, 8 in the fac. of sci. and 1 for those combining studies in the facs. of sci. and med.

ADMISSION. See Appendix II.

FIRST DEGREES. 3 yrs.—MA (ord.), BCom, BL, BSc (ord.) in pure sci., engin., for.; 4 yrs.—M.A. (hons.), BSc (ord.) in agric., chem. technol., mining, BSc (hons.) in pure sci., chem. technol., engin., for., mining, BMus (if not exempted from 1st yr.); 5 yrs.—BSc (hons.) in agric., BArch, BDS, BMus (hons.) (if not exempted from 1st yr.), BVM&S; 6 yrs.—MB ChB.

MA hons. may be taken in: archaeol., Celtic studies, classics, econ. sci., Engl. lang. & lit., fine art, French lang. & lit., geog., hist., maths. & nat. philos., mental philos., mod. langs. (Arabic, French, German, Italian, Persian, Russian, Spanish, Turkish), psychol., Sanskrit, semitic langs., Scottish hist. studies, soc. anthropol.

MA (ord.) may be combined with course of study & trg. leading to a dipl. in nursing studies and art. of R.G.N. for Scotland.

BSc hons. in pure sci. may be taken in: anat., anthropol., bacteriol., biochem., biol. (bot. with zool. or bot. with genetics, or zool. with genetics, or physiol. with genetics, or bacteriol. with zool., or bacteriol. with chem.), bot., chem., genetics, geol., mathl. phys., mathl. sci. (maths. with phys. or maths. with mathl. phys.) (stats. and theoret. astron. may be incl. in this sch.), nat. sci. (bot. with geol., or zool. with geol., or maths. with genetics), pathol., pharmacol., phys. sci. (phys. with chem., or phys. with geol., or chem. with geol.), phys., physiol., psychol., zool.

HIGHER DEGREES. 2 yrs.—BED; MArch, MSc (1 yr. for hons. grads. of Edin.); PhD. 3 yrs.—LLB, BD. By presentation of thesis (with yrs. after graduation): MD, MDS (2 yrs.); DMus, DVM&S (3 yrs.); ChM, DLitt, DSc (5 yrs.); LL.D (7 yrs.).

HONORARY DEGREES. MA, LL.D, DD, DMus, DLitt.

The univ. does not award EXTERNAL DEGREES.

DIPLOMAS. Actuarial maths., 2 yrs. open to persons previously admitted as students of the Fac. of Actuaries. Admin. law & practice, 1 yr.—open to grads. of a British univ. or other recog. univ. and to those who have reached a similar standard. Animal genetics, 1 yr.—open to hons. grads. in a biol. subj. or in maths. of this or another univ. Appl. dynamics, 1 yr.—open to hons. grads. in engin., maths. or phys. Appl. linguistics, 1 yr.—open to grads. with at least 3 yrs.' experience in the teaching of Engl. as a second lang., or in the teaching of other langs. Biol. (bot., physiol. and zool.), 1 yr.—open to hons. grads. in sci. of this or another approved univ. Biophys., 1 yr.—open to grads. with hons. in sci. or grads. in med. Civic design, 1 yr. for archit. grads., 2 yrs. for other grads. Clin. psychol., 3 yrs.—open to grads. with hons. degree in psychol. or qualif. recognized as equivalent by the British Psychological Soc. Educn.—open to persons who have attended a course of professional trg. or have had at least 3 yrs.' experience as a teacher, and have completed a graduation course in arts or sci.; the dipl. is granted on completion of univ. courses (1 yr.) and passing exams. in psychol., theory & hist. of educl., and modern educl. systems & problems. Electronics and radio, 1 yr.—open to hons. grads. in electr. engin., maths. or phys. of this or another approved univ. Engl. studies, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. For., 1 yr.—open to grads. in for. of an approved univ. other than Edinburgh. General linguistics, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. Geog., 1 yr.—open to hons. grads. in geog. and to those who have reached a similar standard. Management studies, 1 yr.—open to grads. or persons with qualifs. approved by fac. of arts (previous managerial experience most desirable). Medical services admin., 1 yr.—open to grads. Paedog. & manuscript studies, 1 yr.—open to grads. or persons whose qualifs. are approved by the fac. of arts. Phonetics—open to grads. of the univ. and to those who have reached a similar standard. Islamic studies, 1 yr.—open to grads. of the univ. and to those who have reached a similar standard. Pub. health (1 acad. yr.), radio-diag. (18 mos.), radiotherapy (2 yrs.), trop. med. & hyg. (6 mos.)—open to grads. in med. of the univ. and others holding corresp. degrees or registrable qualifs. Psychiatry—new regns. are under consideration. Rural sci., 1 yr.—open to hons. grads. in sci. or econ., or ordinary grads. in agric. of this or any other approved univ. Soc. anthropol., 1 yr.—open to grads. or persons possessing qualifs. approved by the fac. of arts. Soc. study, not less than 1 yr.—open to grads. of British or other approved univs. with certain restrictions as to subjects taken for degree. Trop. vet. med., 6 mos.—open to grads. in vet. med. & surg. Vet. state med., 1 yr.—open to grads. in vet. med. & surg.

CERTIFICATES. Educl. studies, 1 yr.—open to non-grads. holding a Scottish teacher's cert. or a

teacher's cert. judged by the bd. of studies to be of equal standing. Med. soc. work, 1 yr.—open to persons over 21 yrs. of age who hold a soc. study degree, dipl. or cert. Nursing studies (advanced nursing educn. for nurse tutors), 2 yrs.; nursing studies (advanced nursing admin. for nurse administrators), 1 yr.—open to registered general nurses and to grads. of approved univs. who have the necessary nursing qualifs. Psychiatric soc. work, 2 yrs.—open to persons who hold a soc. study dipl. or cert. or degree in sociol. Pub. admin., 2 yrs.—open to persons whose educn. is equivalent to univ. entrance standard. Soc. study, 2 yrs.—open to persons whose educn. is equivalent to univ. entrance standard.

POSTGRADUATE TEACHING for med. grads. is organized by the Edinburgh Postgrad. Bd. for Med. Particulars of courses, etc., may be obtained from the dir. of postgrad. studies in med., Surgeons' Hall, Nicolson St., Edinburgh, 8. The postgrad. sch. of theol. issues a detailed list of courses. Grads. contemplating res. should apply to the deans.

POSTGRADUATE AWARDS open to grads. of other univs.: see p. 825.

FEES. *Annual fees* (incl. tuition and exam. fees) payable by all students who first matric. and enter upon courses leading to a degree on or after Oct. 1, 1956. Arts, div., law and music, £35; archit., sci., £55; med. (incl. dent. and vet. med.), £60. Dipls.: actuarial maths., soc. study, £35 p.a.; other dipls. (fees for the course): civic design, £55; Engl. studies, geog., general linguistics, management studies, palaeog. & manuscript studies, phonetics, Islamic studies, soc. anthropol., educn., £35; admin. law & practice, £45; agric. sci., animal genetics, appl. dynamics, appl. linguistics, biol., biophys., electronics & radio, for., DTVM, DVSM, trop. med. & hyg., £55; clin. psychol., £60; pub. health, radiodiag., radiotherapy, medical services admin., £70; psychiatry, £80. Certs. (annual fees): nursing studies, soc. study, psychiatric soc. work, med. soc. work, educnl. studies, pub. admin., £35. Annual matric. fee (£2 : 12s. : 6d.), lab. deposits, and fees for late enrolment payable in addn. Higher degree exam. fees (figures in brackets relate to any re-exam.): MSc, £15 (£6); DLitt, £20 (no re-exam.); DSc, MD, £20 (£6); PhD, £15 (£10), DMus, £20 (£10 for each of the 2 pts.); ChM, DVMS, MDS, £25 (£6). The following are payable in addn. MSc: registration, £20 p.a. and lab. fee of £15 p.a. PhD: £60 payable in 2 instalments in the 1st 2 yrs. of the course; lab. fee, £15 p.a. Subs. (not compulsory) to students' unions vary.

ENTRANCE BURSARIES AND SCHOLARSHIPS. At annual entrance bursary competition bursaries and scholps. valued up to £100 p.a. are available for award in the facs. of arts, sci., med. and law.

HALLS OF RESIDENCE, ETC. (For wardens, see 'Admin. and Other Staff', *above*.) For men: Cowan House, George Square (tel.: 43351),

accomm. for about 100 students, £39 : 10s. : £46 : 10s. per term; Salisbury Green, Dalkeith Rd. (tel.: 41069), accomm. for 46 students, Holland House, Salisbury Green, Dalkeith Rd. (tel.: 41666), accomm. for 140 students, £140 : £144 : 15s. p.a.; Univ. Residence for Midwifery Students, Chalmers St. (tel.: Fou 1065), £4 5s. per week. For women: 5 hostels at Craigmillar Park, East Suffolk Rd. (tel.: 42262), £120 for the 3 terms; Masson Hall, 31 and 32 George Square and annexes (tel.: 41121); Muir Hall, 31 36 Drumsheugh Gdns. (tel.: Cal 2890), £141 for the 3 terms; St. Leonard's House, Park Road (tel.: 41459), accomm. for about 43 students. The univ. settlement has study-bedrooms for 10 male students at Cameron House, Prestonfield (tel.: 43762), terms, £3 : 10s. per week. Six months' notice generally necessary.

There is a Franco-Scottish soc. for advising and assisting French students in Scotland and Scottish students in France. It has local centres at Glas., Aberd. and Dundee.

EDINBURGH UNIV. CLUB OF LONDON. Sec. Dr. B. Williamson, 40 Queen Anne St., W.1

APPOINTMENTS COMMITTEE. Sec., A. G. Acaster, MA, 44 George Sq. (tel.: 46207). The cttee. includes reps. from the univ., indust., commerce and indust. liaison organizations. Between 600 and 700 students are assisted each yr. to find suitable employment.

UNIVERSITY EXTENSION, ETC. There is an adult educn. cttee. which arranges courses of lectures in the south-east of Scotland. The univ. is now represented on the advisory cttees. for the management of the tutorial classes for adults instituted by the Edinburgh educnl. authority, in co-operation with the Edinburgh W.E.A.

VACATION COURSES. Summer classes (4 wks.) for teachers are held during vacation, the lecturers being drawn mainly from the univ. staff. Certs. gained at the courses qualify for endorsement on teachers' certs. An annual 6 wks. residential summer sch. is held for American, Commonwealth and European students (grad. or sr. undergrad.) as part of a programme arranged jntly. with other univs. The jt. programme usually includes courses in hist., lit. and philos.

EXTRA-MURAL WORK (see also 'Teaching Staff', *above*). Classes conducted by the Edinburgh W.E.A. meet in the univ. bldgs. A univ. extra-mural cttee. organizes courses of lectures in the south-east area of Scotland.

UNIVERSITY TRAINING CORPS. The univ. trg. corps is organized in six sub-units of the following arms: artillery; engineers; electr. engineers; signallers; intelligence; and infantry. The primary object of the trg. is to develop leadership qualities in undergrads. whose military service has been deferred. Students are trained for direct commissions in the regular army as well as for commissioned rank in the territorial army and reserve. The contingent is fully equipped with arms and transport. There is also a thriving unit

of the Women's Royal Army Corps with a similar object of enabling grads. to obtain commissions.

**UNIVERSITY HEALTH SERVICE.** The univ. provides facilities for routine med. exams. for each 1st-yr. student, and radiol. exams. of chest for all students annually. It also provides a consultative and domiciliary med. service with sp. hosp. facilities for treatment of sick students. This dept. works in the closest liaison with the student accomm. and welfare office and the phys. educn. dept.

**UNIVERSITY ATHLETIC FACILITIES.** Facilities for playing of most games. All sections of the athletic club, of which shinty is the oldest, are run by student cttees. Separate athletic clubs for men and women. Up-to-date dept. of phys. educn.

**UNIVERSITY UNION.** Open to all male matriculated students, grads. of the univ., members of senatus and court, and members of staff. Debating hall, dining-room, library, reading and writing room, etc. **THE UNIV. WOMEN'S UNION,** 53 George Sq., provides a dining-hall, library, study rooms and temp. overnight accomm.

**UNIVERSITY COMMON ROOMS.** Univ. staff club provides club facilities for all teaching and sr. admin. staff. Students' refectory provides a full meal service incl. evg. meals. The jr. common rm., old coll., provides a convenient meeting place and snack-bar service for undergrads. The King's Bldgs. common rm. provides club and recreation facilities, incl. gymnasium, badminton and squash courts.

**PUBLICATIONS.** *Calendar* (Sept.), 12s. 6d.; *Gazette* (4 issues per session); *Prelim. & Degree Exam. Papers* (May and July), 5d. to 2s.

a set (James Thim, 55 South Bridge); *Facilities for advanced Study and Res.*, free, on application. *Students' Handbook* issued by the students' representative council.

**HISTORIES OF THE UNIV.** (all o/p.): A. Bower, *History of the University*, chiefly compiled from original papers and records never before publ., 3 vols., Edin., 1817-30; A. Dalziel (ed. by D. Laing), with a memoir of the author (by C. Innes), *History of the University of Edinburgh*, 2 vols., Edin., 1862; Sir Alexr. Grant, the *Story of the Univ. during its first 300 yrs.*, 2 vols., London, 1884; by various contributors, ed. by A. Logan Turner, *History of the Univ. of Edinburgh, 1883-1933*, Edin., 1933. *General Council Register, 1958* (Thim, 10s.).

Unofficial publicns.: *The Student* (fortnightly), *Gambit* (termly), both issued by S.R.C.

**UNIVERSITY PRESS.** Instituted by the univ. court in 1945 and administered by a combined cttee. of court and senatus which controls the general policy and selects MSS. for publicn. The main object of the press, rendered possible by bequests applied for the purpose, is the publicn., in the best traditions of Scottish typography and book-production, of works of academic merit which cannot be produced on a comml. basis owing to their restricted appeal and may incur a loss; but the cttee. are prepared to publish works of wider appeal, though still of literary merit, which will help to offset any such loss. Books publ. are advertised and sold by Messrs. Thomas Nelson & Sons, Ltd., the sole agents for the press. Sec.—A. R. Turnbull, MA.

## THE YEAR 1959

**RETIREMENTS.** Prof. Sir Stanley Davidson (med.); Prof. A. D. Ritchie (logic & metaphys.); Prof. J. P. Kendall (chem.).

**RESIGNATIONS.** Prof. G. F. Marrian (bio-chem.); Prof. M. Grant (humanity).

**DEATHS.** Dr. A. M. Cockburn (sr. lectr. in geol.); Dr. L. W. Sharp (univ. librarian).

**HONORARY DEGREES.** *DD*—Rev. Prof. G. W. H. Lampe, prof. of theol., Birm., since 1953, dean of fac. of arts, 1955-58, vice-principal, 1957, hon. canon of Birmingham Cathedral, 1957; Rev. F. Ryrie, Church of Scotland missionary (Bengal), retired; Rev. Prof. C. J. Mullo Weir, prof. of Hebrew & semitic langs., Glas., since 1937, dean of fac. of div., Glas., 1951-54; Rev. J. Wright, minister of Cairns Church, Stewarton, Warrack lectr. on preaching. *LLD*—Rear-Admiral L. V. Berkner, pres. of Associated Universities Inc., New York; Sir Thomas Dalling, veterinary consultant with U.N. Food & Agric. Orgn.; Honor B. Fell, dir., Strangeways Res. Lab., Cambridge, since 1929; Prof. Emer. M. G. Fisher, prof. of civil law, Edin., 1938-58, dean of fac. of law, 1943-58; Prof. Emer. Sir Alexander Gray, prof. of com-

mercial & pol. econ. and mercantile law, Edin., 1935-56; Rt. Hon. Sir Ian A. Johnson-Gilbert, lord provost of city of Edinburgh; Sir (James) Frederick Rees, head of dept. of econ. hist., Edin., 1956-58; J. M. Vallance, writer to the signet, Edinburgh (*in absentia*); Lord Adrian, master of Trinity Coll., Camb., chancellor of Leic.; Prof. C. H. Best, prof. of physiol. & head of dept., Tor., since 1929; Prof. R. Lemieux, prof. of clin. med., Laval, past pres. of Canadian Med. Asscn., pres.-elect of World Med. Asscn.; A. Macrae, sec., British Med. Asscn., 1950-58; Prof. W. G. Penfield, chairman of dept. of neurol., McG., dir. of Montreal Neurological Inst.; Sir Arthur P. Thomson, prof. of therapeutics & dean of fac. of med., Birm.

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time Part-Time	
Men . . .	3931	1213
Women . . .	1789	211
Total	5720	1424

Distribution by Faculties. *Arts*, 2756 ; *div.*, 239 ; *law*, 222 ; *med.* (incl. dent. and vet. med.), 2150 ; *music*, 45 ; *sci.* (incl. technol.), 1732. Total : 7144.

*Included in the figures above are :—*

Postgraduate students, 1370 (incl. 547 studying for higher degrees).

DEGREES AWARDED (1958–59). *Arts* : MA 214 ; MA (hons.), 160 ; BCom, 19 ; BEd, 3 ; PhD, 11. *Div.* : BD, 12 ; PhD, 12. *Law* : BL 13 ; LLB, 35 ; PhD, 2. *Med.* : BDS, 25 ; BVM&S, 34 ; MB ChB, 162 ; MD, 16 ; ChM, 2 ; DVM&S, 2 ; PhD, 13. *Mus.* : BMus, 6. *Sci.* (incl. agric., engin., for.) : BSc, 116 ; BSc (hons.), 118 ; MSc, 7 ; DSc, 3 ; PhD, 38.

DIPLOMAS AWARDED (1958–59). *Arts* : actuarial maths., 2 ; educn., 78 ; soc. study, 17 ; appl. linguistics, 12 ; Engl. studies, 6 ; palaeog. & manuscript studies, 2 ; soc. anthropol., 4. *Med.* : trop. med. & hyg., 10 ; trop. vet. med., 10 ; pub. health, 14 ; vet. state med., 1 ; med. radiodiagnosis, 3 ; med. radiotherapy, 2 ; psychiatry, 3. *Sci.* : animal genetics, 2 ; electronics & radio, 3 ; rural sci., 1 ; appl. dynam. & biol., 1.

CERTIFICATES AWARDED (1958–59). *Arts* : educn. studies, 3 ; soc. study, 19 ; psychiatric soc. work, 8 ; med. soc. work, 9 ; nurse tutor, 4 ; pub. admin., 5. *Med.* : med. illustration, 2.

# UNIVERSITY OF GLASGOW\*

Founded 1451

Postal Address : Glasgow, W.2, Scotland

Telephone : Glasgow, Kelvin 2231

CHANCELLOR—The Rt. Hon. LORD BOYD ORR OF BRECHIN, DSO, MC, Hon. LLD *St. And.*, DAGr *Uppsala*, MA MD DSc, FRS, FRCSI

VIC-CHANCELLOR AND PRINCIPAL—Sir HECTOR HETHERINGTON, KBE, Hon. LLD *Liv.*, *St. And.*, *Prim.*, *Camb.*, *Sheff.*, *Wales*, *Lond.*, *Edin.*, *Belf.*, *Exe.*, *Tufts*, *Br. Col.* & *Glas.*, DLitt *McG.*, Dèsl. *Laval*, MA

RECTOR—The Rt. Hon. THE VISCOUNT HAILSHAM, QC, MA *Oxon.*

DEAN OF FACULTIES—Emeritus Professor T. M. MACROBERT, MA DSc Hon. LLD

SECRETARY OF THE UNIV. COURT AND REGISTRAR—R. T. HUTCHESON, OBE, JP, MA PhD

CLERK OF SENATE—Professor C. J. FORDYCE, MA *Oxon.* & *Glas.*

LIBRARIAN AND KEEPER OF HUNTERIAN BOOKS AND MSS.—R. O. MACKENNA, MA

CLERK OF THE GENERAL COUNCIL—T. R. MACNAUGHTAN, MA LLB, CA

## TEACHING STAFF

[†—Part-Time]

### Accountancy

Browning, R., MA LLB, CA

Paton, A. D., CA

Flint, D., TD, MA BL, CA

(Indust. Accty.) †Lectr.

Stevenson, J. B., CA

MacLaurin, A. D., BL, CA

Ingleby, W., CA

Cameron, W. D. B., CA

Jeffrey, J. C., CA

Prof.

†Lectr.

†Lectr.

†Asst.

†Asst.

†Asst.

†Asst.

†Tutor

Orr, Jean F., MB ChB *Edin.*

Mair, I. W. S., MB ChB

McCreadie, C., MB ChB

McIntosh, Avril M. C.

Asst.

Asst.

Asst.

Med. Artist

### Ancient History

Burn, A. R., MA *Oxon.*

Sr. Lectr.

### Arabic and Islamic Studies

Trimingham, Rev. J. S., MA *Oxon.*, DLitt

Mirza, N. A., BA *Lond.*

†Asst.

### Art, see Hist. of Fine Art

### Astronomy

Sweet, P. A., MA PhD *Camb.*

Ovenden, M. W., MA *Camb.*, BSc

PhD *Lond.*

Roy, A. E., BSc PhD

Griffith, J. S., BSc *Lond.*

Regius Prof.

Lectr.

Lectr.

Asst.

### Biochemistry

Davidson, J. N., MD DSc *Edin.*, FRS

Gardiner Prof.

Munro, H. N., DSc MB

Reader

Smellie, R. M. S., BSc PhD *Man.*, PhD

Sr. Lectr., Grieve Lectr.

Paul, J., MB PhD

Sr. Lectr.

Hutchison, W. C., BSc PhD *Edin.*

Lectr.

Leaf, G., MSc PhD *Man.*

Lectr.

Dawes, E. A., BSc PhD *Leeds*

Lectr.

Crosbie, G. W., BSc PhD *Nott.*

Lectr.

### African Studies

Price, T., MA EdB

Lectr.

### Agriculture (see also p. 1261)

Hendrie, D. S., BSc

Wylie, D. H., BSc

Smart, A. B., BSc

Prof.

Sr. Lectr.

Sr. Lectr.

### Anatomy

Wyburn, G. M., MB ChB DSc

Regius Prof.

Bacsich, P., MD *Szeged*, DSc (Embryol.)

Reader

Warbrick, J. G., MB *Liv.*

Sr. Lectr.

Young, A., TD, MA *Camb.*, MB ChB

Lectr.

Hally, A. D., MB ChB

Lectr.

Hutchison, J., MB ChM

†Hon. Lectr.

Clarke, J. A., MB ChB

Lectr.

Bowie, J. H. H., MB ChB

Asst.

Livingstone, I. G., MB ChB

Asst.

Garrett, J., MB ChB

Asst.

Howat, J. M., MB ChB

Asst.

Hayward, A. F., BSc MB BS *Lond.*

Asst.

\* Member of the Association of Universities of the British Commonwealth

**History**, see also Div., Hist. of Fine Art,  
Hist. of Scots Law  
Stones, E. L. G., MA *Oxon.* & *Glas.*, PhD  
(Mediev. H.) Prof.  
Wright, E., MA *Durh.*, MA *Virginia*  
(Mod. H.) Prof.  
Pryde, G. S., MA PhD *St. And.*  
(Scottish H. & Lit.) Prof.  
Checkland, S. G., MA *Camb.*, MCom *Birm.*,  
PhD *Liv.* (Econ. H.) Prof.  
Mosse, W. E., MA PhD *Camb.* Sr. Lectr.  
Corlett, J. F. R., BA *Liv.* Sr. Lectr.  
Chandaman, C. D., BA PhD *Lond.* Lectr.  
Tumelty, J. J., BA *Durh.*, PhD *Camb.* Lectr.  
Brown, A. L., MA DPhil *Oxon.* Lectr.  
Parsons, F. V., PhD BA *Lond.* Lectr.  
Holmes, G. S., MA BLitt *Oxon.* Lectr.  
Webster, A. B., BA *Oxon.*, MA Lectr.  
Parish, P. J., BA *Lond.* Lectr.  
Gillard, D. R., PhD BA *Lond.* Lectr.  
Scott, A. M., MC, MA *Aberd.*

(Scottish Lit.) Lectr.  
Gilfillan, J. B. S., MA (Scottish H.) Lectr.  
Buyers, J. A., MA (Econ. H.) Lectr.  
Campbell, R. H., MA PhD (Econ. H.) Lectr.  
Payne, P. L., BA PhD *Nott.*  
(Business H.) Colquhoun Lectr.  
Kellelt, J. R., MA *Camb.*, PhD *Lond.*  
(Econ. H.) Lectr.  
Larner, J. P., BA *Oxon.* Lectr.  
Thomas, P. D. G., MA *Wales* Lectr.  
Holmes, Mrs. Ella, BA *Oxon.*, MA Temp. Asst.  
Larkin, M. J., MA PhD *Camb.* Asst.  
Finlayson, G. B. A. M., BLitt *Oxon.*, MA Asst.  
Thomson, J. A. F., MA *Edin.* Asst.  
Owen, A. G., BA PhD *Lond.* Asst.  
Cohn, H. J., BA *Oxon.* Asst.  
Aldcroft, D. H., BA *Manc.* Asst.  
Slaven, A., MA Res. Asst.

### History of Fine Art

Young, A. M., Hon. MA Sr. Lectr.  
Miles, H. A. D., MA *Edin.* Lectr.  
Irwin, D. G., MA *Oxon.* Asst.  
Irwin, Mrs. Francina Temp. Asst.  
Trotter, Grizel S., MA *Edin.* Res. Asst.  
Johnston, Elizabeth M. Res. Asst.

### Humanity, see Latin

### Islamic Studies, see Arabic

### Italian

Meiklejohn, M. F. M., MA *Oxon.* Stevenson Prof.  
MacKinnon, A. D., MA Lectr.  
Kay, G. R., MA PhD *Edin.* Lectr.  
Paganelli, Eloisa Asst.

### Latin (Humanity)

Fordyce, C. J., MA *Oxon.* & *Glas.*  
(Humanity) Prof.  
Malcolm, D. A., MA *Oxon.* & *Glas.* Sr. Lectr.

Dilke, O. A. W., MA *Camb.* (on leave) Lectr.  
Knott, Betty I., MA *Lond.* Lectr.  
Kinscy, T. E., MA *Oxon.* Lectr.  
Brown, P. M., BA *Oxon.* Asst.  
Charlton, W. E. W., BA *Oxon.* Asst.

### Law, see below

### Linguistics, General

Denison, N., MA PhD *Camb.* Lectr

### Logic

Campbell, C. A., DLit *Belf.*, MA Prof  
Hirst, R. J., MA *Oxon.* Sr. Lectr.  
Russell, J. J., MA Lectr.  
Toms, E., BSc *Lond.*, BA BPhil *Oxon.* Lectr.  
Leclerc, I., BA *S.A.*, MA *Cape T.*,  
PhD *Lond.* Lectr.  
Schaper, Eva, DrPhil *Mun.*  
(Aesthetic Philos.) Lectr.  
Wallace, I. G., MA *Aberd.*, BPhil *Oxon.* Asst.

### Mathematics

Rankin, R. A., MA PhD ScD *Camb.* Prof.  
Sneddon, I. N., MA *Camb.*, DSc Simon Prof  
Robb, R. A., MS *Mich.*, MA DSc  
(Stats.) Sr. Lectr.  
Gillespie, R. P., PhD *Camb.*, MA BSc Sr. Lectr.  
Graham, T. S., PhD *Camb.*, MA Sr. Lectr.  
Martin, D., MA BSc PhD Sr. Lectr.  
McHarg, Elizabeth A., PhD *Camb.*, MA Lectr.  
Silvey, S. D., MA PhD Lectr.  
Hunter, J., BA *Camb.*, MA PhD Lectr.  
Robertson, A. P., BA PhD *Camb.*, MA Lectr.  
Geddes, A., BA *Camb.*, BSc MA PhD Lectr.  
Aitchison, J., MA Lectr.  
Munn, W. D., MA PhD Lectr.  
Britton, J. L., MSc *Hull*, PhD *Manc.* Lectr.  
Burlak, J., MSc *Cape T.*, PhD Lectr.  
Moran, S., MSc PhD *Lond.* Lectr.  
Simms, D. J., MA *Dub.* Lectr.  
Burlak, Mrs. Jane A. C., MA Asst.  
Howarth, J. C., MSc PhD Asst.  
Scourfield, Eira J., BSc *Lond.*, MSc *Exe.* Asst.  
Smith, C. P., MSc *Lond.* Asst.  
Robertson, Wendy J., BA PhD *Camb.* Asst.  
Dicker, R. M., BA *Oxon.* Asst.  
Underhill, J., BSc *Lond.* Asst.

### Medicine and Surgery, see below

### Metallurgy, etc., see Royal Coll. of Sci. and Technol., p. 1266

### Mining

Hibberd, G., PhD Dixon Prof.

### Music

Orr, R., MA MusD *Camb.* Gardiner Prof.  
Rimmer, F. W., BMus *Durh.*, MA *Camb.*  
Sr. Lectr., Crumb Lectr.

Elliott, K. J., MA *St.And.*, MusB  
PhD *Camb.*  
Tilnouth, M., MA PhD *Camb.*

Lectr.  
Asst.

Toner, W. T., BSc  
Lloyd, J. T.

Asst.  
Res. Technologist

**Naval Architecture, including Marine Engineering**, see also Royal Coll. of Sci. and Technol., p. 1268

Conn, J. F. C., DSc John Elder Prof.  
Livingstone, M. Lectr.  
Miller, N. S., BSc Lectr.  
Cameron, R. M., BSc Lectr.

**Norwegian**

Rosegg, Miss Oddveig, CandPhil *Oslo* Lectr.

**Philology, Romance**

Lectr.

**Philosophy, Moral**, see also Logic and Psychol.

MacLagan, W. G., MA *Oxon.*, PhD *Edin.* Prof.  
Lamont, W. D., DPhil *Oxon.*, MA Sr. Lectr.  
Dicker, J. S., MA BSc Lectr.  
Dawson, J. G., BA *Oxon.*, Phil. STB *Rome* Lectr.  
Dowrie, R. S., MA Lectr.  
Horsburgh, H. J. N., BSc *Lond.*,  
BLitt *Oxon.*, MA Lectr.  
Hunt, I., MA BPhil *Oxon.* Lectr.

**Philosophy, Natural**

Dee, P. I., CBE, MA *Camb.*, FII FRS Prof.  
Gunn, J. C., MA *Camb.* & *Glas.* Cargill Prof.  
McFarlane, W., MA DSc, FIP Sr. Lectr.  
Rutherglen, J. G., BSc *Lond.*, PhD Sr. Lectr.  
Lewis, G. M., MSc *Lond.*, PhD Sr. Lectr.  
Burton, W. K., MScTech *Manc.*,  
PhD *Brist.* Sr. Lectr.  
Reid, J. M., MA Sr. Lectr.  
Wallie, G. A. P., PhD *Brist.*, BSc Sr. Lectr.  
McNeill, J., MA Lectr.  
Giles, R., BSc Lectr.  
Moorhouse, R. G., MA PhD Lectr.  
Cockroft, A. L., MA *Camb.* Lectr.  
Guggenheimer, K. M., DrPhil *Berl.* Lectr.  
Williams, W. S. C., BSc PhD *Lond.* Lectr.  
Dixon, D., BSc Lectr.  
Brandsen, B. H., BSc PhD *Lond.* Lectr.  
March, P. V., BSc PhD *Birm.* Lectr.  
Mykura, H., BSc *Birm.*, PhD *Lond.* Lectr.  
Stewart, D. T., BSc PhD *Belf.* Lectr.  
Hughes, I. S., BSc PhD Lectr.  
Hogg, W. R., BSc PhD Lectr.  
Azuma, R. E., MA *Br.Col.*, PhD Lectr.  
Jack, W., BSc *St.And.*, PhD Lectr.  
Drever, R. W. P., BSc PhD Lectr.  
Lang, E. W., MA PhD Lectr.  
Roxcroft, J. D., BSc *R'dg.* Temp. Lectr.  
Lenthall, J. M. A., MSc *Durh.*, PhD Lectr.

†Hon. Lectr.  
Morton, W. T., BSc PhD Asst.  
Thomas, D. L., BSc *Edin.* Asst.  
Thomson, J. S., BSc Asst.

**Physics**, see Philos., Nat.

**Physiology**

Garry, R. C., MB ChB DSc, FRFPGlas Regius Prof.  
Garven, H. S. D., BSc MD Reader  
Weir, J. B. de V., MA BSc MB ChB Sr. Lectr.  
Roberts, T. D. M., BSc *Lond.*,  
PhD *Edin.* Sr. Lectr.  
Lewis, J. J., MSc *Manc.* Sr. Lectr.  
Boyd, I. A., BSc *Lond.*, MB ChB PhD Lectr.  
McNaught, Ann B., MB ChB PhD Lectr.  
Gillespie, J. S., MB ChB PhD Lectr.  
Holmes, M., MB ChB Lectr.  
Martin-Smith, M., MSc *N.Z.*, PhD *Roch.* Lectr.  
MacKenna, B. R., MB ChB Lectr.  
Stewart, Air Commodore W. K., CBE, AFC,  
BSc MB (Aviation P.) †Hon. Lectr.  
Durnin, J. V. G. A., MA MB ChB  
(Human Metabolism) †Hon. Lectr.  
Gairns, F. W. Asst.  
Stothers, Fay, BSc Asst.  
Muir, T. C., BSc Asst.  
Todd, J. K., BSc MB ChB Asst.  
Munro, Mrs. Edith, MB ChB Temp. Asst.  
Sharp, G. R., MB ChB Asst.  
Greer, J. R., BSc PhD Res. Asst.  
Carey, Fiona M., BSc *Lond.* Res. Asst.  
Callander, R. Medical Artist

**Political and Social Theory**

Raphael, D. D., MA DPhil *Oxon.* Edward Caird Prof.  
Moodie, G. C., MA *St.And.* & *Oxon.* Lectr.  
Brand, J. A., MA *Aberd.* Asst.  
Lloyd-Jones, I. D., MA *Camb.* Asst.

**Political Economy**

Wilson, T., OBE, MA *Oxon.*, PhD *Lond.* Adam Smith Prof.  
..... Sr. Lectr.  
Meek, R. L., MA LL.M. *N.Z.*, PhD *Camb.* Lectr.  
Orr, Mrs. Sarah C., MA PhD Lectr.  
Sleeman, J. F., MA *St. And.* & *Manc.* Lectr.  
Houston, G. F. B., MA *Edin.*, BLitt Lectr.  
Gaskin, M., DFC, BA *Liv.*, MA Lectr.  
Hunter, J. B. K., MA *Edin.* Lectr.  
Gibb, E. B., MA Lectr.  
Garton, G. D., MA *Liv.* & *Camb.* Lectr.  
MacBean, A. I., BPhil *Oxon.*, MA Lectr.  
Holmans, A. E., MA DPhil *Oxon.* Asst.  
McCrone, R. G. L., MSc *Wales*,  
MA *Camb.* Asst.

**Principles of Religion**

Galloway, A. D., PhD *Camb.*, MA BD Sr. Lectr.

**Psychology**

Pickford, R. W., MA PhD *Camb.*, DLitt Prof.  
Gardner, P. A. D., MA BSc EdB LLB Lectr.  
Barbu, Z., PhD *Cluj* Lectr.



Weir, A. J., DPhil *Oxon.*, MA Lectr.  
 Stott, D. H., MA *Camb.*, PhD *Lond.* Lectr.  
 Shirley, A. W., BA *Lampeter*, EdB Asst.

### Psychology, Industrial

Oakley, C. A., BSc EdB Lectr.

### Russian

Holttum, V. E. J., BA *Lond.* Sr. Lectr.  
 Zekulin, G., IngComSci *Prague*, MA *Liv.* Lectr.  
 Birkett, Mrs. Natalia Y. Asst.  
 Caird, Shiena N. Asst.

### Scottish History and Literature, see Hist.

### Slavonic and Eastern European Languages

Soukup, I., ThB *Prague*, PhD *Edin.* Lectr.  
 (Czechoslovakian)  
 Dabrowski, J., PhD *Cracow* (Polish) Temp. Lectr.

### Social and Economic Institutions, Soviet

Miller, J., MA *Sheff.* Lectr.  
 Schlesinger, R. A. J., DrRerPol *Vienna*, PhD *Lond.* Lectr.  
 ..... Asst.

### Social and Economic Research

(Appl. Econ.) Prof.

Paterson, T. T., BSc *Edin.*, MA PhD *Camb.* Sr. Lectr.  
 Parkinson, J. R., BCom *Leeds* Sr. Lectr.  
 Baird, R., MA LLB Lectr.  
 Hart, P. E., BSc *Lond.* Lectr.  
 Bates, J. A., BA PhD *Nott.* Lectr.  
 Fisher, G. R., BCom *Birm.*, MA *Camb.* Lectr.  
 Hamid, M. A., MA LLB *Karachi* Res. Asst.  
 Ritchie, Margaret, MA Res. Asst.

### Social Psychology

Jahoda, G., MSc PhD *Lond.* Sr. Lectr.  
 Chalmers, A. D., MA Res. Asst.

### Social Study

Mack, J. A., MA Dir.  
 Cleveland, Agnes R., BA *Lond.* Tutor

### Sociology

Hightet, J., DPhil *Oxon.*, MA Lectr.

### Spanish, see Hispanic Studies

### Statistics

Robb, R. A., MS *Mich.*, MA DSc Mitchell Lectr.

### Theology, see Div.

### Veterinary Medicine, see below

### Zoology

Yonge, C. M., CBE, PhD DSc *Edin.*, Hon. DSc *Brist.*, FRS Regius Prof.  
 Slack, H. D., BSc *Lond.*, PhD *Edin.* Sr. Lectr.  
 Robertson, J. D., PhD *Camb.*, BSc Sr. Lectr.  
 Steedman, H. F., BSc PhD *Brist.* Sr. Lectr.  
 Barnett, S. A., MA *Oxon.* Sr. Lectr.  
 Hill, A. R., BSc PhD *St.And.* (Agric.) Sr. Lectr.  
 Miller, Agnes E., MA Lectr.  
 Crowson, R. A., BSc *Lond.* Lectr.  
 Hopkins, C. A., BSc *Leeds*, PhD *Dub.* (Vet.) Lectr.  
 Hunter, W. D. R., BSc PhD Lectr.  
 Owen, G., DSc *Wales* Lectr.  
 Lawson, J. W. H., BSc PhD (Entomol.) Lectr.  
 Fraser, A., BSc PhD (Agric.) Lectr.  
 Cowey, J. B., BA *Camb.* Lectr.  
 Dixon, A. F. G., BSc *Lond.*, DPhil *Oxon.* Lectr.  
 Dobson, R. M., MA *Camb.*, PhD *Lond.* (Agric.) Lectr.  
 Henderson, A. E., BSc *Edin.* Asst.  
 Lockey, K. H., DIC, BSc PhD Asst.  
 Bowden, J., MB BS *Durh.*, BSc *Oxon.*, PhD *Belf.* Asst.  
 Ansell, A. D., BSc Asst.  
 Scott, D. B. C., BSc *Aberd.* Asst.  
 Usherwood, P. N. R., BSc *Wales* Asst.  
 Turnbull, Eleanor R., MA *Tor.*, BSc *Lond.* Res. Asst.

### ENGINEERING

(see also Naval Archit., Mining)

### Aeronautics and Fluid Mechanics

Duncan, W. J., CBE, DSc *Lond.*, FRS Mechan. Prof.  
 Babister, A. W., MA *Oxon.*, PhD Sr. Lectr.  
 Thom, A. S., BSc PhD Sr. Lectr.  
 Cain, T. H., BSc *Lond.* Lectr.  
 Tanner, P. H., BSc Lectr.  
 Wong, H. H. Y., BSc *Shanghai* Lectr.  
 Kelling, F. H., BSc *Edin.* Lectr.  
 Moore, A., BSc Res. Asst.

### Engineering, Civil

Marshall, W. T., BSc PhD *Lond.* Regius Prof.  
 Sutherland, H. B., SM *Harv.* (Soil Mechanics) Reader  
 Nelson, H. M., BSc *Lond.* Lectr.  
 Arthur, P. D., BSc Lectr.  
 Lindsay, J. A., BSc Lectr.  
 McKenzie, R. D., BSc Asst.  
 Cranston, W. B., BSc Asst.  
 Smith, I. A., BSc Res. Asst.

### Engineering, Electrical

..... James Watt Prof.  
 Small, A. J., BSc PhD Sr. Lectr.  
 Gordon, D. S., BSc *Edin.*, PhD Sr. Lectr.  
 Foord, T. R., BSc PhD *Lond.* Lectr.  
 Shankland, J. H., BSc Lectr.  
 Thomas, P. A. V., BSc Lectr.  
 Collins, J. H., MSc *Lond.* Lectr.

Gashus, O. K., BSc PhD  
 Langlands, R. C., BSc *Lond.*  
 Connell, A. W., BSc

Lectr.  
 Lectr.  
 Res. Asst.

**Constitutional Law**

Murdoch, J. D., TD, MA LLB  
 McAlpine, A. I., MA LLB  
 Mair, J., BA *Oxon.*, LLB

Lectr.  
 †Asst.  
 †Asst.

**Engineering, Mechanical**

Small, J., PhD DSc James Watt Prof.  
 MacLellan, G. D. S., MA PhD *Camb.*

Rankine Prof.

Orr, J., BSc PhD  
 Bruges, E. A., BSc PhD  
 Morrison, D., BSc PhD  
 Pabng, V. R., BSc  
 Cameron, E. R., BSc  
 Donaldson, R., MScTech *Manc*  
 Corry, J. S., BSc *Lond.*  
 Deckker, B. E. L., BSc PhD  
 Mackie, W. W., BSc  
 Taylor, W. L., BSc  
 Ross, W., BSc  
 Coats, W. L., BSc  
 Maccallum, N. R. L., BSc PhD  
 Nisbet, S. K., BSc *Birm.*  
 Hill, R. C., BSc  
 Le May, I., BSc  
 Whitelaw, J. H., BSc  
 Burnside, B. M., BSc  
 Ray, A. K., BSc *Calc. & Glas.*  
 Gray, W. O., BSc  
 Manvell, J. G., BSc  
 Begg, R. D., BSc  
 Kerr, C. N., BSc

Sr. Lectr.  
 Sr. Lectr.  
 Sr. Lectr.  
 Lectr.  
 †Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Lectr.  
 Temp. Lectr.  
 Lectr.  
 Lectr.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.  
 Res. Asst.

**Conveyancing**

Halliday, J. M., MA LLB  
 Donaldson, A. K., BL  
 Murray, S. M.

Prof.  
 †Lectr.  
 †Asst.

**Evidence and Procedure**

Mellick, J., MA LLB  
 Coutts, T. G., MA LLB *Aberd.*

†Lectr.  
 †Asst.

**History of Scots Law**

Smith, J. I., MA LLB  
 McGhee, I. B., MA LLB

Lectr.  
 †Asst.

**International Law, Public**

Neil, J. C., MA LLB  
 Macdonald, Mrs. Isabel L., MA BL

†Lectr.  
 †Asst.

**International Private Law**

Donaldson, A., MA LLB  
 Bain, N. B., BL

†Lectr.  
 †Asst.

**Jurisprudence**

Anton, E. A., MA LLB *Aberd.*  
 Matheson, Joan M., BL

Prof.  
 Lectr.  
 †Asst.

**Engineering Production**

Shankland, J. H., BSc Loudon Lectr.

**LAW**

Walker, D. M., QC, PhD LL.D *Edin.*,  
 LLB *Lond. & Glas.*, MA Regius Prof.  
 Miller, I. P., LLB *Lond.*, BL Lectr.  
 Meston, M. C., JD *Chic.*, MA LLB *Aberd.*  
 (Scots Law) Lectr.  
 McRae, W., MA LLB (Mercantile Law) Lectr.  
 Gow, A. M., MA LLB (Indust. Law) †Lectr.  
 Syme, A. C., MA LLB (Comm. Law) Lectr.  
 Rodger, I. B., MBE, MA LLB  
 (Comm. Law) Lectr.  
 Mackintosh, J. T., MA LLB †Asst.  
 Stewart, J. S., MA LLB †Asst.  
 Malloy, D. B., MA LLB †Asst.  
 Wright, T. A., MA LLB †Asst.

**Administrative Law**

Miller, J. B., TD, MA LLB †Lectr.  
 Syme, A. C., MA LLB †Asst.

**Civil Law**

Thomas, J. A. C., MA LLB *Camb.* Douglas Prof.  
 Gordon, W. M., MA LLB *Aberd.* †Lectr.  
 Lovat, L. S., BL †Asst.  
 Mactaggart, R. A., BL †Asst.

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc.,  
 see above)

Fleming, C. M., MA MD Dean of Fac.

**Anæsthetics**

Forrester, A. C., MB ChB Sr. Lectr.  
 Campbell, D., MB ChB Lectr.  
 Tindal, A., MB ChB †Hon. Lectr.  
 Pinkerton, H. H., MB ChB, FRFPGlas †Hon. Lectr.

**Bacteriology**

Howie, J. W., MD *Aberd.* Gardiner Prof.  
 Lominski, I. R. W., MD *Cracow* Sr. Lectr.  
 Ives, J. C. J., MB ChB *Edin.* Sr. Lectr.  
 Kyles, W. B., MB ChB Sr. Lectr.  
 Morrison, R. B., BSc PhD Lectr.  
 Harper, Elizabeth M., BSc PhD Lectr.  
 Smith, D. D., MD Lectr.  
 Gentles, J. C., BSc PhD Lectr.  
 Hutchison, J. G. P., MD *Lond.* Lectr.  
 Norris, J. R., BSc PhD *Leeds* Lectr.  
 Fallon, R. J., BSc MD *Liv.* Lectr.  
 McGeachie, J., MB ChB Lectr.  
 Scott, A. C., MB ChB Lectr.  
 Bruce, L. G., MB ChB DPH †Hon. Lectr.  
 Tinne, J. E., BSc MB ChB DPH *Edn.* †Hon. Lectr.  
 Sommerville, R. G., MD †Hon. Lectr.

McCallum, May F., BSc PhD  
 Arbuthnott, J. P., BSc  
 Dawson, Christine O., BSc

Asst.  
 Asst.  
 Res. Asst.

Imrie, J. A., MD, FRCSEd Lectr.  
 Rentoul, E., MBE, MB ChB MA LLB Lectr.  
 Weir, W. P., MB ChB †Hon. Lectr.

### Dentistry

Aitchison, J., BSc, FDSRCSEd  
 (D. Surg.) Prof., Dir.  
 Gibson, W. M., MB ChB *St. And.*,  
 FDSRCSEd (D. Prosthetics) Prof.  
 Noble, H. W. Sr. Lectr.  
 Ireland, J. Lectr.  
 McNeil, C. K., PhD, FDSRCSEd Lectr.  
 Thomson, J. C. Lectr.  
 Drummond, F. A. B. Lectr.  
 McDougall, J. C. Lectr.  
 MacGilvray, D. Lectr.  
 Carmichael, A. F., FDSRCSEd Lectr.  
 Nixon, G. S., PhD, FDSRCSEd Lectr.  
 Lunt, Dorothy A., BDS Lectr.  
 Kennedy, G. D. C., BDS Lectr.  
 McLundie, A. C., BDS Lectr.  
 Clyde, J. S., BDS Lectr.  
 Campbell, J., PhD, FDSRCSEd †Hon. Lectr.  
 Orr, J. A. †Hon. Lectr.  
 White, T. C., FDSRCSEd †Hon. Lectr.  
 Gale, J. A. †Hon. Lectr.  
 Clark, H. A., PhD †Hon. Lectr.  
 Edwards, A. G. †Hon. Lectr.

### Dermatology

Milne, J. A., MB ChB McCall Anderson Lectr.  
 Harvey, G., MB ChB †Hon. Lectr.  
 Smith, Mary S., MD †Hon. Lectr.

### Ear, Throat and Nose, Diseases of

Christie, J. F., MB ChB †Hon. Lectr.  
 Connal, E. A. M., MB ChB †Hon. Lectr.  
 Watson, R. J., MC, TD, MB ChB †Hon. Lectr.  
 Strang, A., MB ChB †Hon. Lectr.  
 Land, F. T., MB ChB, FRFPGlas †Hon. Lectr.  
 Dixon, J., MB BS *Lond.* †Hon. Lectr.

### Eye, Diseases of the

Riddell, W. J. B., MD, FRFPGlas  
 Tennent Prof.  
 Marshall, J., MC, TD, MB ChB †Hon. Lectr.  
 Steel, Janet F., MB ChB †Hon. Lectr.  
 Tennent, J. N., BSc *Lond.*, MB ChB,  
 FRFPGlas †Hon. Lectr.  
 White, J. P., MB ChB †Hon. Lectr.  
 Thomson, A. M. W., TD, MD,  
 FRFPGlas †Hon. Lectr.  
 Leishman, R., MD †Hon. Lectr.  
 Paterson, M. W., MA MB ChB, FRCSEd †Hon. Lectr.  
 Asst.  
 Donald, G. Medical Artist

### Forensic Medicine and Medical Jurisprudence

Glaister, J., JP, DSc MD,  
 FRFPGlas Regius Prof.

### Infancy and Childhood, Diseases of

Graham, S. G., MD LLD *Tor.*, FRFPGlas,  
 FRCPEd Samson Gemmell Prof  
 Hutchison, J. H., OBE, MD, FRFPGlas,  
 FRCP †Gow Lectr.  
 Dennison, W. M., MD, FRFPGlas  
 Barclay Lectr.  
 Blockey, N. J., MChOrth *Liv.* Barclay Lectr.  
 Wattie, Nora I., MB ChB *Aberd.*, DPH  
 †Hon. Lectr.  
 Riley, I. D., BSc MD, FRFPGlas †Hon. Lectr.  
 Laird, A. P., MB ChB †Hon. Lectr.  
 Ferguson, C. A., MB ChB †Hon. Lectr.  
 Giles, Margaret D., MD Asst.  
 Shanks, R. A., MD, FRFPGlas Asst.

### Infectious Diseases

Anderson, T., MD, FRCPEd, FRFPGlas Prof  
 Landsman, Joan B., MB ChB, FRFPGlas  
 Lectr.  
 Stevenson, J., MB ChB Lectr.  
 Lawson, J. H., MD DPH †Hon. Lectr.  
 Rankin, A. L. K., MD DPH, FRFPGlas  
 †Hon. Lectr.

### Materia Medica, see also Med., Clin.

Alstead, S., CBE, MD *Liv.*, FRCP Regius Prof  
 Fulton, W. F. M., BSc MB ChB Sr. Lectr.  
 Macarthur, J. G., MC, MB ChB *Aberd.*  
 Pollok Lectr.  
 Thomson, T. J., MB ChB Lectr.  
 Hillis, B. R., MD Lectr.  
 Lazarus, S., MD, FRCP, FRFPGlas  
 †Hon. Lectr.  
 Anderson, W. F., MD, FRFPGlas †Hon. Lectr.  
 Smith, W. D., MB ChB *Edm.*, MRCPEd Asst.  
 Lewis, G. P., BSc MB ChB *Wales* Asst.

### Medical Radiology

Walker, J. Z., MB ChB †Hon. Lectr.  
 Park, S. D. S., MD †Hon. Lectr.

### Medicine

Davis, L. J., MD *Edin.*, FRCP, FRCPEd,  
 FRFPGlas Muirhead Prof.  
 Douglas, A. S., BSc MD Sr. Lectr.  
 McGirr, E. M., BSc MD, FRFPGlas Lectr.  
 Kennedy, A. C., MD Lectr.  
 Renfrew, S., BSc MB ChB †Hon. Lectr.  
 McEwan, T., MD, FRFPGlas †Hon. Lectr.

### Medicine, Clinical

#### †Honorary Lecturers

Imrie, A. H., MD  
 Oastler, E. G., TD, MA *Oxon.*, MB ChB,  
 FRFPGlas, FRCP  
 Wright, J. H., JP, MD, FRFPGlas

McCluskie, J. A. W., MB ChB, FRFPGlas  
 Rennie, J. B., MD, FRFPGlas  
 Scott, L. D. W., MD, FRFPGlas  
 Graham, J. G., JP, MD  
 Murray, I., MD, FRFPGlas, FRCPEd  
 Kerr, J. D. O., MB ChB  
 Brown, A., MD  
 Lazarus, S., MD, FRCP, FRFPGlas  
 Fraser, T. N., MD, FRFPGlas, FRCP  
 Peel, A. A. F., DM BCh Oxon.  
 Richards, R. L., MD *Aberd.*

### Medicine, Practice of

Wayne, E. J., MSc MD PhD *Leeds*,  
 FRCP Regius Prof.  
 Goldberg, A., MD *Edin.* Sr. Lectr.  
 Nordin, B. E. C., MD *Lond.* Sr. Lectr.  
 Reid, J., MD Lectr.  
 Gaylor, J. B., MA BSc MB ChB,  
 FRFPGlas †Hon. Lectr.

### Obstetrics and Gynæcology

Anderson, D. F., MD, FRFPGlas,  
 FRCOG Muirhead Prof.  
 Donald, I., MBE, BA *Cape T.*,  
 MD *Lond.* (Midwifery) Regius Prof.  
 Hewitt, J., MB ChB, FRFPGlas,  
 FRCOG (Clin. G.) Lectr.  
 Macaskill, Sarah, MB ChB Lectr.  
 MacVicar, J., MD Lectr.  
 Honorary Lecturers  
 McLennan, H. R., MD, FRFPGlas, FRCOG  
 Sutherland, A. M., MD, FRFPGlas  
 Hart, D. McK., MB ChB, FRFPGlas

### Orthopædics

Barnes, R., BSc MB ChB *Manc.*, FRCS,  
 FRFPGlas Prof.  
 Stevens, J., MA MB BChir *Camb.* Lectr.  
 Patrick, J., MB ChB †Hon. Lectr.

**Pædiatrics**, see *Infancy and Childhood*,  
 Dis. of

### Pathological Biochemistry

Eaton, J. C., BSc MB ChB Sr. Lectr.  
 Wilson, H. E. C., DSc MB, FRFPGlas  
 Chambers, J. W., BSc MB ChB Sr. Lectr.  
 Hendry, E. B., BSc PhD MB ChB *Edin.*,  
 FRFPGlas Sr. Lectr.  
 Grant, J. K., BSc PhD *Edin.*, FRIC Sr. Lectr.  
 Thomson, W. H. S., BSc PhD MB  
 ChB *Glas.* Asst.

### Pathology

Cappell, D. F., CBE, MD, FRFPGlas Prof.  
 Symington, T., BSc MD  
 St. Mungo-Notman Prof.  
 Hutchison, H. E., MD Reader  
 Dick, J. C., MD, FRFPGlas Sr. Lectr.  
 Lennox, B., MD *Durh.*, PhD *Lond.* Sr. Lectr.

Anderson, J. R., BSc MD *St. And.* Sr. Lectr.  
 Cruickshank, B., MD PhD *Edin.* Sr. Lectr.  
 Sandison, A. T., BSc MD *St. And.* Sr. Lectr.  
 Patrick, R. S., MB ChB DPH Lectr.  
 Watson, A. J., MB ChB *Aberd.* Lectr.  
 Pullar, P., MB ChB Lectr.  
 Goudie, R. B., MB ChB Lectr.  
 Kennedy, S., MA MB ChB Lectr.  
 Duguid, W. P., MB ChB Lectr.  
 Adams, J. H., MB ChB Lectr.  
 Boyd, J. F., MB ChB, MRCPEd Lectr.  
 Beck, J. S., BSc MB ChB, FRFPGlas Lectr.  
 Carr, I. A., MB ChB Lectr.  
 Catto, Mary E., MB ChB Lectr.  
 Webb, J. L., MSc PhD *McG.* Temp. Lectr.  
 Davis, W. B., BSc MD DPH †Hon. Lectr.  
 Govan, A. D. T., MB ChB PhD †Hon. Lectr.  
 Peacock, P. R., MB BS *Lond.*,  
 FRFPGlas †Hon. Lectr.  
 Roberts, G. B. S., BSc MD †Hon. Lectr.  
 Gray, Kathleen G., BSc Res. Asst.  
 Boyd, Elizabeth, BSc Res. Asst.

### Pathology of Diseases of Infancy and Childhood

MacDonald, A. M., MD *Edin.*, FRCPEd  
 Gardiner Lectr.

### Psychological Medicine

Rodger, T. F., DPM *Lond.*, BSc MB ChB,  
 FRCPEd Prof.  
 Sclaire, A. B., MB ChB, FRFPGlas  
 Mackintosh Lectr.  
 St. Clair, Mrs. Margaret B., BCom *Edin.* Lectr.  
 Mowbray, R. M., MA PhD Lectr.  
 Ingram, I. M., MD *Edin.*, DPM Lectr.  
 Milne, J., DPM *Lond.*, BSc MB †Hon. Lectr.  
 Gillics, H., MD, FRCPEd †Hon. Lectr.  
 Stone, F. H., MB ChB, FRFPGlas  
 †Hon. Lectr.  
 MacGillivray, R. C., MB ChB *Edin.*,  
 DPM *Lond.* †Hon. Lectr.  
 Cramond, W. A., OBE, MD *Aberd.*,  
 DPM *Lond.* †Hon. Lectr.  
 Freeman, T., MD *Belf.*, DPM *Lond.*  
 †Hon. Lectr.  
 McClatchey, W. T., MB ChB *Belf.* †Hon. Lectr.

### Public Health

Ferguson, T., CBE, DPH *Edin.*, MD DSc,  
 FRCPEd Henry Mehan Prof.  
 Meiklejohn, A., MD DPH, FRFPGlas  
 (Indust. Health) Sr. Lectr.  
 Mearns, A. G., MBE, BSc MD DPH Sr. Lectr.  
 Curran, A. P., BSc MD DPH Sr. Lectr.  
 Horne, W. A., MD DPH Lectr.  
 Miller, A. R., MD DPH Lectr.  
 Lunn, J. E., MB ChB DPH Lectr.

### Surgery

Illingworth, C. F. W., CBE, MD ChM *Edin.*,  
 FRCSEd Regius Prof.  
 Mackey, W. A., TD, MB ChB, FRCSEd,  
 FRFPGlas St. Mungo Prof.

Short, D. W., BSc MB ChM, FRCSEd  
 Forrest, A. P. M., BSc MD, FRCSEd Sr. Lectr.  
 Duthie, H. L., MB ChB, FRCS, FRCSEd  
 Lectr.  
 Bain, W. H., MB ChB, FRCS  
 Brewin, E. G., MB ChM *Leeds* Lectr.  
 Miller, C., MB ChB *Aberd.*, FRCS,  
 FRCSEd Lectr.  
 Goodall, A. L., MD DPH, FRCSEd,  
 FRFPSGlas †Hon. Lectr.  
 Burnett, W., MB ChM *Aberd.* †Hon. Lectr.

### Surgery, Clinical

#### †Honorary Lecturers

Fleming, J. P., MB ChB, FRFPSGlas  
 Gerstenberg, E. G., TD, MB ChB, FRCSEd  
 Kerr, A. B., OBE, TD, BSc MB ChB,  
 FRCSEd, FRFPSGlas  
 Mailer, R., MD *Edin.*, MS *Minn.*, FRCSEd,  
 FRFPSGlas  
 Patrick, W., TD, MB ChB, FRCSEd,  
 FRFPSGlas  
 Wright, R. B., DSO, OBE, BSc MB ChB,  
 FRCSEd  
 Longland, C. J., MVO, MB MS  
 Beattie, W., MB ChB  
 Bonar, A. A., MB ChM  
 Macpherson, I., JP, MB ChB  
 Galloway, J. P., BSc MB ChB  
 Fraser, K., MD ChM  
 Hutchison, J., MB ChM

### Surgery, Specialist

Smith, G., MBE, MD  
 (Surg. Cardiol.) Sr. Lectr.

#### †Honorary Lecturers

Dick, B. M., MB ChB *Edin.*, FRCSEd  
 (Thoracics)  
 Tough, J. S., MB ChB *Edin.*, FRCSEd  
 (Plastics)  
 Paterson, J. E., MB ChB, FRFPSGlas  
 (Neuro-S.)  
 Robertson, J. S. M., BSc MB ChB,  
 FRCS (Neuro-S.)  
 Wallace, J., BSc MD (Blood Transfusion)

### Tuberculosis, Clinical

Barclay, R. S., MD DPH †Hon. Lectr.  
 Baxter, H., TD, MD †Hon. Lectr.  
 Borthwick, W. M., MD ChM †Hon. Lectr.  
 Dale, A., MB ChB †Hon. Lectr.  
 McIntyre, J. P., MD †Hon. Lectr.

### Urology

Chapman, T. L., MB ChM, FRFPSGlas  
 †Hon. Lectr.  
 Jacobs, A. H., FRFPSGlas, FRCSEd  
 †Hon. Lectr.  
 Mack, W. S., MB ChB, FRFPSGlas,  
 FRCSEd †Hon. Lectr.

### Venereal Diseases

McKenna, W. B., MD †Hon. Le

### Virology

Stoker, M. G. P., MA MD *Camb.* Prof.  
 Grist, N. R., BSc MB ChB Sr. Lectr.  
 Fraser, K. B., MD *Aberd.* Sr. Lectr.  
 Wildy, N. P. L., MA MB BChir *Camb.*  
 Hon. Lectr.  
 Watson, D. H. Hon. Lectr.

## VETERINARY SCHOOL AND HOSPITAL

Weipers, W. L., BSc, FRCVS  
 Prof., Dir. of Vet. Educn.

### Animal Husbandry and Preventive Medicine

Inglis, J. S. S., BSc *Edin.* Prof.  
 Hemingway, R. G., MSc *Leeds*, PhD Sr. Lectr.  
 Abbot, S. G., MBE Lectr.  
 Nicolson, N. Lectr.  
 Pearce, P. J., MSc *Lond.* Lectr.  
 Campbell, A. J. D., BVSc *Brist.* Lectr.  
 Weipers, Mary, MA  
 Vet. Supervisor at Field Sin

### Veterinary Anatomy

Smith, Helen J. Sr. Lectr.  
 McCallum, F. J. Lectr.  
 Lindsay, Mrs. Flora E. F. Lectr.

### Veterinary Biochemistry

Mulligan, W., MSc *Belf.*, PhD *Lond.* Sr. Lectr.  
 Jennings, F. W., BSc MAgr *Belf.* Lectr.  
 Douglas, T. A., BSc PhD Lectr.  
 Aitken, J. D., BVMS Res. Asst

### Veterinary Histology and Embryology

Aitken, R. N. C. Sr. Lectr.  
 Kellas, Lorna M., BSc *Aberd.*, PhD *Lond.* Lectr.

### Veterinary Materia Medica

Thomson, A. (also Animal Management) Lectr

### Veterinary Medicine

McIntyre, W. I. M., PhD Sr. Lectr.  
 Greig, W. A., BSc PhD Sr. Lectr.  
 Lauder, I. M. Lectr.  
 Fisher, E. W., BSc Lectr.  
 McCance, C. M. †Hon. Lectr.  
 Dalton, R. G., BVMS Asst  
 Begg, T. B., BVMS Houseman  
 Liversage, Diana Houseman

### Veterinary Pathology

Emslie, J. W., BSc *Aberd.* Prof.  
 O'Sullivan, J. G. Sr. Lectr.  
 Campbell, R. S. F. Sr. Lectr.  
 Michna, S. W., VS *Lwow* Sr. Lectr.

Grindlay, M.  
McCusker, H. B.  
Vantsis, J. T., PhD  
Dunn, A. M., PhD *Edin.*  
Hamilton, J. M., BVMS  
Cornwell, H. J. C., BVMS

Lectr. Hignet, P. G.  
Lectr. Campbell, J. R., BVMS  
Lectr. Leahy, Patricia N., BVMS  
Lectr. Mason, Eileen C., BVMS *Edin.*  
Asst. Jones, R. S., BVSc *Liv.*  
Res. Asst.

Sr. Lectr.  
Lectr.  
Asst.  
Houseman  
Houseman

### Veterinary Pathology, Clinical

Jarrett, W. F. II., PhD  
Sharp, N. C. C., BVMS  
Pirie, H. M., BVMS

Sr. Lectr.  
Lectr.  
Asst.

### Veterinary Pharmacology

Sanford, J., BVSc *Liv.*

Lectr.

### Veterinary Physiology

Munro, A. F., BSc PhD *Aberd.*  
Pickering, E. C., BSc BVMS  
Anderson, R. S., BVMS

Sr. Lectr.  
Lectr.  
Lectr.

### Veterinary Surgery

Weipers, W. L., BSc, FRCVS  
Jennings, S.  
Lawson, D. D.

Prof.  
Sr. Lectr.  
Sr. Lectr.

### DALRYMPLE LECTURER (Archæology)

Anne S. Robertson, MA

### STEVENSON LECTURER (Citizenship)

1958-63—J. A. Mack, MA *Oxon.* & *Glas.*

### EXTRA-MURAL EDUCATION

Trump, H. J., MA *Camb.*  
Lloyd, W. E., BA *Wales*  
Shearer, J. G. S., MA  
Gillanders, F., MA  
Williams, R. A., MA *Wales*  
Baillie, M.  
Cregeen, E. R., MA *Camb.*  
Wilson, T. B., MA BMus  
Gomme, A. H., MA *Camb.*  
Smith, H. J., MA Blatt *Oxon.*

Dir.  
Tutor  
Tutor  
Tutor  
Tutor  
Tutor  
Tutor  
Tutor  
Tutor  
Tutor

## ADMINISTRATIVE AND OTHER STAFF

Asst. Registrar & Asst. Sec. of Court : G. P. Richardson, MA. Finance Officer & Asst. Sec. of Court : R. D. McKean, CA. Asst. Secs. of Court : J. W. C. Wingate, DPA ; J. B. Neilson, MC, MA *Oxon.* & *Glas.* ; J. McCargow, MA ; G. Bradley, Hon. MA ; W. J. Fairweather, BSc. Dep. Librarian : T. M. Walker, PhD *Belf.*, MA, FLA. Clerk of the Fac. of Med. : J. O. Westwater. Clerk of Senate's Asst. & Clerk of Facs. of Arts, Div. and Law : C. S. Rankine, Hon. MA. Clerk of Senate's Asst. & Clerk of Facs. of Sci. and Engin. : D. A. Nicol, MA. General Adviser to Women Students & Sec. for Women's Appts. :

Barbara L. Napier, JP, MA. Appts. Officers : J. Collins, MA ; T. E. Carruthers, MA. Wardens : Capt. (S) C. H. Law (MacLay Hall) ; K. H. Lockey, DIC, BSc PhD *Lond.* (MacBrayne Hall) ; A. G. C. Smith, BSc *Edin.*, PhD (Kelvin Lodge) ; W. Burnett, MB *Edn.*, FRCSEd (Horslethill House) ; Mrs. Elsie Conway, BSc PhD *Liv.* (Queen Margaret Hall). Chaplain : D. Gourlay, MA BD. Student Health Service : Sr. Med. Officer : A. S. Henderson, MB ChB ; Med. Officer : H. A. N. Richmond, MB ChB. Dir. of Phys. Educn. : G. Niven.

## ASSOCIATED COLLEGES

in which university courses are provided

ROYAL COLLEGE OF SCIENCE AND TECHNOLOGY : see p. 1266.

WEST OF SCOTLAND AGRICULTURAL COLLEGE, 6 Blythswood Square, Glasgow, C.2 (tel. : City 5211-3). Principal, D. S. Hendrie, BSc. AGRIC., D. S. Hendrie ; Adviser of Studies, A. B. Smart, BSc. AGRIC. ECON., J. A. Gilchrist, BSc. AGRIC. ENGIN. & SURVEYING, C. J. Swan, BSc. AGRIC. ZOOL., D. S. MacLagan, BSc(Agr) PhD DSc *Edin.*

BACTERIOL., S. Baines, BSc, PhD. BEE-KEEPING, J. Savage. BOT., W. W. Fletcher, BSc. CHEM., H. Nicol, MSc PhD *Lond.*, FRIC. DAIRYING, J. McClelland, BSc. FARM BLDGS., R. J. Forsyth. HORTIC., H. F. Dovaston, BSc PhD. POULTRY, T. E. Whittle.

STUDENTS (1959-60), 266 ; of whom 45 were reading for univ. qualifs.

## GENERAL INFORMATION

The univ. was founded in 1451 by a Bull of Pope Nicholas V, on the applicn. of William Turnbull, bishop of Glasgow. It was establd. as

a *studium generale*, with the privileges of Bologna, and its charter provided for studies in theol., canon and civil law, arts and any other lawful fac.

The business of the univ. was carried on with varying fortunes till the Reformation, when its revenues were thrown into confusion. It was given new life by Andrew Melville, who became principal in 1574. In 1577 it was reconstituted by the 'nova erectio', a charter of King James VI which was the foundation of the statutes by which the univ. was governed until the Universities (Scotland) Act, 1858.

The 'old college' was situated in the High St. for more than 4 centuries; the univ. moved to its present site on Gilmorehill in 1870. Since the transference was made, a whole range of new bldgs. has come into being (*see* 'Univ. Precinct', *below*).

**CONSTITUTION.** By the Universities (Scotland) Act of 1858, as modified by the Act of 1889, the univ. court, upon which senate and general council have representation, controls the finance, properties and general admin. of the univ. The senate superintends teaching and discipline: it consists of the principal (who presides) and the profs. (*ex officio*) and readers and lectrs. apptd. by the senate to a max. of one-fourth of the *ex-officio* members. The general council consists of the chancellor, the members of the univ. court and the profs. of the univ., all *ex officio*; grads. of the univ. who have paid the registration fee; and (during their term of office) readers and lectrs. of more than 1 yr.'s standing. The chancellor is elected for life by the general council. The rector is elected by the matriculated students, is pres. of the univ. court, and holds office for 3 yrs. The office of principal is in the patronage of the crown. The vice-chancellor is apptd. by the chancellor to discharge in his absence his function of conferring degrees. The office has usually been and now is held by the principal.

**INCOME (1958-59).** Total income, £2,374,316 (govt. grants, 78 per cent.; fees, 11 per cent.; endowments, 5 per cent.; other sources, 11 per cent.).

**UNIVERSITY PRECINCT.** Depts. accomm. within the univ. precincts at Gilmorehill incl. arts, div., law, med., sci. and engin. together with the library, museum, Bute hall, chapel, officers trg. corps headquarters and the admin. offices.

The vet. sch. is accomm. outwith the precincts, at the vet. hosp., Garscube estate, and in the vet. sch. bldg., Buccleuch St., with addnl. res. and teaching facilities at the field stn., Cochno. Teaching for the degree in agric. is provided partly in the univ. and partly in the W. of Scotland Agric. Coll. in Blythswood Sq. (*see above*). Med. teaching and res. facilities are provided at the Western and Royal Infirmarys, Southern General, Stobhill, Yorkhill and Dental Hosps. The engin. dept. also has res. and teaching labs. in an annexe at Spencer St., Anniesland.

The original univ. precinct, extending to about 24 acres, is bounded by Univ. Avenue on the north, by Kelvingrove Park on the east and south and on the west by the Western Infirmary, and contains little possibility of further bldg. devel.

The adjacent devel. area, extending to about 26 acres, is bounded by Univ. Avenue on the south, by Bank St. on the east, by Gt. George St. on the north and generally by the Lilybank Gdns. area on the west. This area also contains few unoccupied sites immediately available for new bldgs. The univ. owns about 8 acres and is acquiring individual houses as these come on the market. An amended plan has been approved for future univ. devel. in the adjoining Hillhead area in which sites have been allocated for a number of important new bldgs. including a refectory and library.

For bldgs. recently completed or approaching completion, *see* p. 1265.

The LIBRARY, founded in the 15th century, contains over 490,000 vols., including 500 incunabula. Among its many important collections are the Euing, distinguished for the value and variety of its bibles; the Hamilton (philos. works); the Ferguson (rare bks. on the hist. of chem.); and the Pollok collection of emblem lit. bequeathed to the library in 1958. There are sep. branch libraries for chem. and vet. med. A large READING ROOM serves the needs of undergrads., while there are some 70 class and dept. libraries, among the largest of which are those associated with modern langs. (opened 1960), soc. & econ. res., and the dept. of Soviet instns. The HUNTERIAN MUSEUM, founded in 1783, contains the Hunterian libr., the most valuable of the univ.'s collections of bks. and MSS., as well as important collections of cons., anat. preparations, zool. and mineral specimens, etc.

**LABORATORIES.** Engin., bot., nat. philos., chem., physiol., biochem., anat., pathol., mat. med., forensic med., pub. health and zool. As Glasgow stands at the centre of the shipbldg, engin., mining and indust. area of Scotland, it offers unique opportunities for technical tr. There is a well-equipped heat engines res. establ. (Spencer St.). The nat. philos. dept. has a 340 MeV synchrotron. A computing lab. was establ. in 1958, having as its main equipment an English Deuce computer.

There are bot. gdns., a freshwater biol. field stn. (Loch Lomond), and an OBSERVATORY.

**TEACHING HOSPITALS.** 5 large general hosps. (the Western, Royal and Victoria Infirmarys and the Southern General and Stobhill hosps.) are available for clinics, besides sp. instns. (incl. consumption sanatoria). The dent. sch. is assoc. with the Dent. Hosp. (Renfrew St.). The vet. sch. (Buccleuch St.) has a recently built animal hosp. (Bearsden Rd.) and a field stn. (Cochno).

**FACULTIES AND DEANS (1960).** *Arts*, Prof. C. A. Campbell (logic); *div.*, Rev. Prof. R. G. Smith; *engin.*, Prof. W. J. Duncan (aero. engin.); *law*, Prof. J. M. Halliday; *med.*, Prof. C. M. Fleming; *sci.*, Prof. J. C. Gunn (nat. philos.).

**ADMISSION.** *See* Appendix II.

**FIRST DEGREES.** MA (ord.) 3 yrs., (hons.) 4

ys. Hons. courses are separate to the extent that each subj. of the hons. group must be studied at hons. level during 2 sessions. The principal groups for hons. are classics, philos., maths. and nat. philos. or astron., Engl. lit. & lang., hist., econ., mod. European langs., Semitic langs., Celtic (incl. Irish and Scottish Gaelic, Manx, Welsh and Breton), music with a lang., or hist., or psychol. or maths., geog. with econ. or econ. hist., psychol., jurisp. and civil law; BMus, 3 yrs.; BL, 4 yrs.; BSc in agric., BSc in appl. chem., BSc in archit., BSc in engin. (aero., chem., civil, electr., mech., mining, naval archit.), BSc in pharm., hons., 4 yrs. These are essentially hons. courses; the examiners may however award an ord. or pass degree. BSc in pure sci. (ord.), 3 yrs., hons. 4 yrs.; separate hons. courses after the 1st yr. Hons. subsj.: maths., nat. philos., astron., chem., the natural scis., geog., anat., physiol., pathol. with bacteriol., biochem., pharmacol., genetics (with another subj.). MB ChB, 6 yrs.; BDS, 5 yrs.; BVMS, 5 yrs.

Students of engin. now spend three terms of each session in academic studies. It is recommended that they devote the summer vacation to practical work.

**HIGHER DEGREES.** BLitt, EdB, 2 yrs.; BD, LLB, 3 yrs. MD (thesis and exams., the latter may be waived, open only to grads. MB ChB of Glas.); ChM, MVS, DVM, MDS (as for MD); DLitt, DSc (pub. health), grads. of other univs., 2 yrs. (no period stipulated for Glas. grads.); DMus, grads. of other univs., 3 yrs. (no period stipulated for Glas. grads.); LL.D, open only to grads., 7 yrs. after 1st graduation. The degree may also be awarded as an hon. degree. PhD (in all facs.), 3 yrs.

**HONORARY DEGREES.** DD (hon. only), LL.D.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Educn., for grads., 1 yr. (1st yr. of EdB course); pub. admin., 3 yrs.; dramatic studies, 2 yrs., for arts grads.; DPH, 1 yr.; numerical analysis, 1 yr., for grads.; Roman law, 1 yr., for grads. in arts or law; clin. psychol., 2 yrs., for hons. grads. in psychol.

Dipl. for subsj. of sp. study (min. 1 yr.); Islamic hist., Greek hist. & archaeol.; Roman hist. & archaeol.; compar. philol.; romance philol.; psychol.; agric. econ.; social geog.; sociol.

**CERTIFICATES.** Certs. of proficiency in engin. sci. and in mining engin. (3 yrs., of which 1st yr. may be taken in Royal College of Science and Technology); no prelim. exam. Certs. also awarded in indust. admin. (1 yr.), postgrad. study in thermodynamics (1 yr.), soc. study (2 yrs.; 1 yr. for grads.), and dramatic studies (3 yrs.).

Certs. for sp. study (min. 1 yr.): semitic philol.; Greek hist.; Roman hist.; psychol.; Islamic hist.; sociol.

**RESEARCH.** For detailed information regarding

postgrad. study and res. in any fac., applicn. should be made to the dean. There is publ. annually *Summaries of Theses* for which the degree of PhD has been awarded in the fac. of sci.

**ALLIANCES.** Exchange arrangements exist with Cornell and McGill for free travel, fees, and maintenance for 1 yr. to a student who has graduated or is about to graduate in any fac.

**FEES.** *Annual fees* (incl. tuition, exam. and lab. fees). Arts (incl. music, educn., div. and law), £35; sci. and engin., £55; med. (incl. dent. and vet. med.), £60. Annual matric. fee (£4:4s.) and lab. deposits payable in addn. Higher degrees (payable on submission of thesis): MD, ChM, DVM, MVS, MDS, £25; DLitt, DSc, DMus, LL.D, PhD, £20. BLitt, £20; DPH, £70; cert. in soc. study (1-yr. course for grads.), £35; (2-yr. course), £25 per session; DPA, £15; cert. in dramatic studies, courses in management studies, £10 and £5 per session; cert. in indust. admin., £35; dipl. in numerical analysis, £55; dipl. in Roman law, £15; dipl. in clin. psychol., £70 plus £30 for clin. yr. of practical instrcn. Union membership (not compulsory), 2 gs.

**ACADEMIC YEAR.** Oct. to June, 3 terms of 10 wks. each, but teaching in 3rd term ends after 5 wks. for arts, 7 wks. for engin. and 8 wks. for div.

**UNIVERSITY EXTENSION** (see also 'Teaching Staff', above). An extra-mural educn. cttee., equally representative of the univ. and working-class organizations, is prepared to supply classes, short courses and single lectures to groups of students in Glasgow and the west of Scotland, so far as its resources will permit: a compendium of classes and lectures for the session is obtainable from the dir. of extra-mural studies, 91 Oakfield Ave., Glasgow, W.2. Public lectures by profs. and others during the winter session. The dept. of appl. econ. conducts a 3-yr. course in management studies and a 2-term course in indust. accty., 1-term courses in indust. hist., indust. law and indust. relns. designed for business executives. There is also a 1-yr. full-time cert. course in indust. admin.

**PRINCIPAL 'OPEN' ENTRANCE AWARDS.** All entrance bursaries in the gift of the univ. are awarded after competitive exam. held, for bursaries in div., in Sept., and for others, in June. There are in addn. bursaries in the gift of patrons, applicants for some of which are required to sit the general bursary exam. in June. A pamphlet giving full information is obtainable from the registrar.

**POSTGRADUATE AWARDS** open to grads. of other univs.: see p. 825.

**APPOINTMENTS COMMITTEE.** Sec. for men's appts.: J. Collins, MA. *Postal address:* the University, W.2 (tel.: Kelvin 2231). Sec. for women's appts.: Barbara L. Napier, JP, MA.



**Postal address:** the University, W.2 (tel.: Kelvin 2231).

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', above.) For women: Queen Margaret Hall, Bute Gdns., Glasgow, W.2 (tel.: Western 1622), 90 students. For men: MacLay Hall and Strain Hall, 16-18 Park Terrace, Glasgow, C.3 (tel.: Douglas 5056), 114 students; MacBrayne Hall, 9-13 Park Circus Place, Glasgow, C.3 (tel.: Douglas 5626), 60 students; Kelvin Lodge, 7-8 Park Circus, Glasgow, C.3 (tel.: Douglas 5360), 50 students; Horslethill House, 7 Horslethill Rd., Glasgow, W.2 (tel.: Kelvin 2732), 45 students. Fees: £130 for the academic yr. of three 10-wk. terms.

**LODGINGS.** Lists of lodgings for men and women students are kept by the lodgings officer, 4 University Gdns., Glasgow, W.2 (tel.: Kelvin 2231).

**OFFICERS' TRAINING CORPS (TERRITORIAL ARMY).** Formed 1909 as sr. div. O.T.C.; re-organized 1948 and 1955. C.O.: Lt.-Col. J. F. Slater; W.R.A.C. Commander: Capt. M. D. Fraser, TD. Units: artillery, engineers, infantry, med., W.R.A.C. **Postal address:** University Ave., Glasgow, W.2 (tel.: Western 6611).

**UNIVERSITY AIR SQUADRON.** Syllabus: full elem. flying trg., both ground and air, being 90 hrs.' flying and 110 hrs.' lectures, spread over 3 yrs. C.O.: Wing Commander D. M. Flynn, DFC. H.Q.: 11 Bute Gdns., Glasgow, W.2 (tel.: Western 6460).

**UNIVERSITY ATHLETIC CLUB.** Facilities exist for most indoor and outdoor games and sports for men and women. Grounds: Westerlands and Garscadden (tel.: Western 1029, Scotstoun 2759). Hon. pres.: R. O. MacKenna, MA; hon. treasurer: G. Bradley, MA; dir. of phys. trg.: G. Niven.

**STUDENT HEALTH SERVICE.** No domiciliary service, but full-time med. officers available for routine med. exams. and consultations; compulsory annual chest X-ray for all matriculated students.

**STUDENTS' REPRESENTATIVE COUNCIL.** The council consists of *ex-officio* members apptd. by certain student clubs and socs. and of elected reps. of the several facs. The constitution and functions of the S.R.C. incl. the right to petition the senate on any matter affecting teaching or discipline, and to petition the court direct in any other matter affecting the students. The council works through cttees.: grants, chapel, hospitality, facs., book sales, vacation employment, freshers' camps and publicans.

**STUDENTS' UNIONS.** Glasgow Univ. union, establd. 1885; present bldgs. opened 1931. Membership open to matriculated men students

and former men students of the univ., to members of the univ. court, the *senatus academicus* and the teaching staff. Annual sub.: 2 gs. **Postal address:** University Ave., Glasgow, W.2 (tel.: Western 8697). Queen Margaret union, founded 1890. Membership open to matriculated women students and women grads. Annual sub., 2 gs. **Postal address:** University Ave., Glasgow, W.2 (tel.: Kelvin 1025). Hetherington House, 13 Univ. Gdns. (tel.: Western 3765), a club for res. and other postgrad. students, was opened in Jan. 1955.

**GRADUATES' ASSOCIATIONS.** Graduates' Assocn.: hon. sec.—J. C. M. Jardine, BL, 77 St. Vincent St., Glasgow, C.2. Glasgow U. '93 Club: actg sec.—H. K. Walker, LLB, 30 George Sq., Glasgow, C.2. Early Twenties Club: hon. sec.—G. Donaldson, LLB, 160 W. George St., Glasgow, C.2. Glasgow U. Club, Aberdeen: hon. sec.—A. K. Pringle, BSc, 19 St. Swithin St., Aberdeen. Glasgow U. Club, London: hon. secs.—H. L. P. Myles, LLB, 43 Parliament St., Westminster, London, S.W.1, and J. F. Heggie, BSc MB, N. Middlesex Hospital, Edmonton, London, N.18. Glasgow U. Women's Club, London: hon. sec.—Mrs. Florence M. Foyle, MA, 20 Furness Rd., London, N.W.10. Yorkshire Assocn. of Grads. of the U. of Glasgow: hon. sec.—J. Wishart, MB, FRCS, 33 Manor Row, Bradford. Glasgow U. Club, Manchester: hon. sec.—..... Glasgow U. Grads. Club of New South Wales: hon. sec.—D. S. Macmillan, MA, Archivist, Univ. of Sydney, New South Wales. Glasgow U. Assocn. of Sheffield & District: hon. sec.—Dr. E. Millar, 5 Far Lane, Sheffield, 5. Hull & District Glasgow U. Grads. Assocn.: hon. sec.—W. D. Craig, BL, The Univ., Hull, Yorks. Glasgow U. Grads. Assocn., Birmingham: information from Prof. H. C. McLaren, Dept. of Obstetrics, Queen Elizabeth Hosp., Birmingham, 15. Glasgow U. Grads. Club, S. Rhodesia: information from J. Cowie, MA BSc, 139 Baines Ave., Salisbury, C.5. S. Rhodesia. Glasgow U. Club of America: pres.—Mrs. C. S. Marwick, MA, 213 West 14th St., New York, 11, N.Y. Glasgow U. Assocn. of British Columbia: pres.—J. Dick, MB, 5838 Adera St., Vancouver, 13, B.C.

**PUBLICATIONS.** *Calendar* (12s. 6d.); *Glasgow Univ. Gazette*, each term; *College Courant* (journal of graduates' assocn.), bi-annually; *Glasgow Univ. Magazine* (students), monthly during winter session; *Exam. Papers*, prelim. and degree; *Student's Handbook* for matriculated students; *Archivum Linguisticum* (journal of comparative philol. & general linguistics); *Soviet Studies* (quarterly); *Munimenta* (1451-1727) (Maitland Club, 1854); *Roll of Grads.* (1727-1897) (Addison); *Matric. Albums* (1728-1858) (Addison); *History of the Univ. of Glasgow*, by J. Coutts (MacLehose, 1901); *Memories of the Old College of Glasgow*, by D. Murray (Jackson Wylie, 1927); *The Univ. of Glasgow 1451 to 1951*, by Prof. J. D. Mackie (Jackson, 1954).

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Mrs. M. G. Dunlop, £60,876 for res. in engin.; Ross Trust, £26,105 for general use; Wolfson Foundation, £300,000 for men's hall of residence; D.S.I.R., £22,100 for mass spectrometer.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed:* engin. south bldg. *Approaching completion:* Virol. Inst.; dept. of physical educn.; genetics extension.

**NEW CHAIRS.** Orthopædics, infec. diseases, dent. prosthetics.

**RETIREMENTS.** W. Arthur (maths.); Prof. W. M. Smart (astron.).

**RESIGNATIONS.** Dr. D. A. Bassett (geol.), apptd. keeper of geol. in Natnl. Museum of Wales; Dr. G. E. Beedham (zool.), apptd. to post in S.E. Essex Tech. Coll., Dagenham; Dr. W. A. J. Crane (pathol.), apptd. sr. lectr. in surg., Sheff.; Dr. A. R. Currie (pathol.), apptd. hd. of pathol. div. in Imperial Cancer Res. Fund labs.; Prof. N. Davis (Engl. lang.), apptd. Merton Prof. of Engl. lang. & lit., Oxford; B. Deane (music), apptd. sr. lectr., Melb.; Dr. J. Findlay (oper. dent. surg.), apptd. to chair of periodontol., Dal.; Dr. A. J. Hale (physiol.), apptd. to post with Imperial Cancer Res. Fund; M. Holland (French), apptd. lectr., R'dg.; P. R. Horne (Italian), apptd. lectr., Oxford; Dr. A. B. Jackson (French), apptd. lectr., U.C. of the West Indies; L. Jolley (dep. librarian), apptd. librarian, W. Aust.; Dr. T. E. Lawrenson (French), apptd. lectr., Aberd.; Dr. V. J. O'Donnell (pathol. biochem.), apptd. asst. prof., Br. Col.; G. C. H. Paton (hist. of Scots law), apptd. sr. lectr. in Scots law, Edin.; Dr. A. M. Reid (anaesth.), apptd. consultant anaesth., R. Infirmary, Glas.; Dr. R. L. Richards (prac. of med.), apptd. consultant phys. in charge of wards, S. Gen. Hosp., Glas.; Dr. G. B. S. Roberts (pathol. of infec. diseases), apptd. consultant in lab. med., Ruchill Hosp., Glas.; Dr. J. A. Roper (genetics), apptd. hd. of dept. of genetics, John Innes Hort. Inst.; F. H. Scarfe (French), apptd. dir., British Inst., Paris; Dr. A. B. Sclare (psychol. med.), apptd. psychiatric consultant, E. District Hosp., Glas.; I. C. Smith (zool.), apptd. lectr., Univ. of Libya; L. G. Watt (Finance Officer), to study for Ministry; J. H. Warrender (pol. sci.), apptd. to chair of pol. sci., Belf.; G. F. Whitaker (French), apptd. to post with British Council.

**DEATHS.** Emer. Prof. S. J. Cameron (regius prof. of midwifery, 1928-43); Dr. D. Chisholm (lectr. in chem.); Emer. Prof. A. W. Gomme (prof. of Greek, 1946-57); Emer. Prof. Sir Robert Muir (prof. of pathol., 1899-1936); Dr. S. V. Telfer (lectr. in pathol. biochem.); Dr. S. S. Westfal (lectr. in Polish).

**HONORARY DEGREES.** DD—G. H. G. Gloege, prof. of theol., Univ. of Jena; J. M. Graham, prof.

of systematic theol., Aberd.; W. R. Sanderson, minister of the Barony of Glasgow; A. M. Stevenson, minister in New South Wales; P. S. Watson, tutor of Wesley House, Cambridge. *LLD*—V. Arangio-Ruiz, formerly prof. of Roman law, Rome; D. Baird, prof. of midwifery, Aberd.; Sir Eric B. Bowyer, permanent secretary, Ministry of Pensions and Nat. Ins.; M. Chagall, painter; T. Coughtrie, engineer in Lanarkshire; F. F. Darling, ecologist; A. D. Gibb, sometime prof. of law, Glas.; R. Hay, sometime lectr. in metall. chem., Glas., and prof. of metall., R.C.S.T., Glas.; D. T. Jack, prof. of econ., Durh.; Rt. Hon. Katharine, Baroness Elliot of Harwood; K. Kuratowski, prof. of maths., Warsaw; A. L. Macfie, sometime prof. of pol. econ., Glas.; J. D. Mackie, sometime prof. of Scottish hist. & lit., Glas.; S. Ochoa, prof. of biochem., N.Y.; Doris Mary, Lady Stenton, reader in hist., R'dg.; Rt. Hon. A. Thompson, Baron Denning of Whitchurch, a Lord of Appeal in Ordinary.

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	3973	382
Women . . .	1361	44
Total . . .	5334	426

Distribution by Faculties. *Arts*, 1727 *div* 106; *engin.*, 654; *law*, 501 *med.*, 1449 (*med.*, 1018; *dent.*, 217; *vet. med.*, 214) *sci.*, 1323. Total: 5760.

*Included in the figures above are:—*

Postgraduate students, 486.

New admissions, 1486.

Students from other countries, 420. (Countries from which largest numbers came: India, 90; Nigeria, 55; Norway, 39; U.S.A., 28; Ghana, 15).

**DEGREES AWARDED (1958-59).** *Agric.*: BSc Agric (ord.), 18; BScAgric (hons.), 6. *Arts*: MA (ord.), 255; MA (hons.), 111; BMus (ord.), 2; BMus (hons.), 1; EdB, 11; BLitt, 4; BD, 7; LLB, 23; BL, 19; DLitt, nil. *Dent.*: BDS, 30. *Med.*: MB ChB, 140; MD, 21; ChM, 1. *Pure sci.*: BSc (ord.), 89; BSc (hons.), 120; DSc, 5. *Technol.*: BSc(ApplChem) (ord.), 6; BSc(ApplChem) (hons.), 23; BSc(Eng) (ord.), 62; BSc(Eng) (hons.), 58. *Vet. med.*: BVMS, 26. PhD (all facs.): 58. *Total number of first degrees awarded*, 986.

**DIPLOMAS AWARDED (1958-59).** DPA, 17; DipEd, 26; DPH, 13.

**CERTIFICATES AWARDED (1958-59).** Dramatic studies, 5; soc. study, 17; indust. admin., 11.

# ROYAL COLLEGE OF SCIENCE AND TECHNOLOGY, GLASGOW\*

Founded 1796 ; affiliated to the University of Glasgow, 1913

Postal Address : George St., Glasgow, C.1, Scotland

Cables and Telegrams : Royal College of Science and Technology, Glasgow

Telephone : Glasgow, Bell 4400-9

CHAIRMAN OF THE BOARD OF GOVERNORS—Sir ANDREW McCANCE, DSc *Lond.*, LLD *Glas.*, FRS

PRINCIPAL—S. C. CURRAN, DSc *Glas.*, FRS

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ASSISTANT SECRETARY-TREASURER—C. STEWART

ADVISER OF STUDIES—J. M. LEITCH, BSc *Glas.*, FRIC

LIBRARIAN—C. G. WOOD, FLA

RESIDENT ARCHITECT—J. MCCORMICK

## TEACHING STAFF

### Applied Microbiology and Biology

Morris, E. O., BSc PhD *Birm.* Hd. of Dept.  
Meyrath, J., DTechSc *Zür.*

(Microbiol.) Sr. Lectr.  
Lloyd, Blodwen, MSc *Wales*, PhD *Glas.*

(Biol.) Sr. Lectr.

McIntosh, A. F., BSc *Glas.* Lectr.

Provan, Margaret S., BSc *Glas.* Lectr.

Hutchison, W. M., BSc PhD *Glas.* Lectr.

Blain, J. A., BSc PhD *Glas.* Lectr.

Allan, M. C., BSc *Glas.* Asst. Lectr.

Dunachie, J. F., BSc *Glas.* Asst. Lectr.

MacLeod, D. G., BSc *Glas.* Asst. Lectr.

Smith, J. E., BSc *Glas.*, PhD *Manit.* Asst. Lectr.

O'Neil, G. J., BSc *Glas.* Asst. Lectr.

### Architecture and Building

Fielden, F., MA *Durh.*, FRIBA

Prof., Dir. of Archit. Studies

MacLean, A., BA *Manc.* Sr. Lectr.

Paterson, D. S. Sr. Lectr.

Lyon, T. F. Sr. Lectr.

Murray, J. E. Lectr.

Brodie, Margaret B., BSc *Glas.* Lectr.

Selby, F., DiplIngArch *Berl.* Lectr.

Cordiner, A. D., FRIBA Lectr.

Morrison, R. S. Lectr.

Morris, E. N. Lectr.

Mochrie, A. J., BSc *Glas.* Lectr.

Wilson, J. Lectr.

Booton, H. W., BA *Durh.* Lectr.

Longbone, J. M., DipArch *Durh.* Lectr.

### Chemical Technology

Ritchie, P. D., BSc PhD *St. And.*, FRIC

Young Prof.

Principal Lectr

Mitchell, T. J., PhD *Glas.*, FRIC Sr. tr

Gibb, W., BSc PhD *Glas.* tr

Gardner, R. G., BSc PhD *Glas.* tr

Bengough, W. I., BSc *Wales*, PhD *Camb.* tr

Slessor, C. G. M., BSc PhD *Edin.* tr.

MacDonald, B. B., BSc PhD *Glas.* tr.

Smith, D. Asst tr

Thomson, R. A. M., BSc PhD *Glas.* Asst tr

### Chemistry

Pauson, P. L., BSc *Glas.*, PhD *Sheff.*,

FRIC Freeland Prof.

Crawford, A. B., BSc PhD *Glas.*, FRIC

Principal Lectr

McLean, J., BSc PhD *Glas.*, FRIC

Principal Lectr

Good, W., DSc *Zür.* Sr. Lectr

Anderson, H. G. A., BSc *Glas.*, FRIC Lectr.

Alexander, W. A., BSc *Lond.*, FRIC Lectr

Syme, A. C., BSc PhD *Glas.* Lectr

Sharp, W., BSc PhD *Glas.*, FRIC Lectr.

Bladon, P., PhD *Lond.* Lectr.

Wood, H. C. S., BSc PhD *St. And.* Lectr.

Brown, D. H., BSc PhD *Glas.* Lectr.

Proctor, G. R., BSc PhD *Aberd.* Lectr.

Jeffreys, J. A. D., MA DPhil *Oxon.* Lectr.

Nonhebel, D. K., BSc *Lond.*, DPhil *Oxon.* Lectr

Lawrie, W., BSc PhD *Glas.* Lectr.

Smith, T. D., MSc *Wales* Lectr.

Hyde, A. J., BSc PhD *Sheff.* Lectr.

Swinton, F. L., BSc PhD *St. And.* Lectr.

Ross, R. A., BSc PhD *Glas.* Lectr.

Shillaker, B., BSc *Durh.* Asst Lectr.

Sherwood, J. N., BSc PhD *Durh.* Asst. Lectr.

\* Additional Member of the Association of Universities of the British Commonwealth

**Colour Chemistry and Dyeing**

Giles, C. H., BSc PhD *Leeds*, DSc *Glas.*,  
FRIC Sr. Lectr.

**Engineering, Electrical**

Bruce, F. M., MSc PhD *Durh.*, MIEE Prof.  
Principal Lectr.  
Fairley, E. S., BSc PhD *Glas.*, MIEE Sr. Lectr.  
Jelonek, Z. J., DipIng *Warsaw*, MIEE Sr. Lectr.  
Martin, W. H., BSc *Glas.* Lectr.  
Pender, J. T., BSc *Glas.* Lectr.  
Wood, W. S., BSc *Edin.* Lectr.  
Matthews, J. E., BSc PhD *Lond.* Lectr.  
Langhorne, T. B., BSc *Lond.* Lectr.  
Aked, A., BSc *Glas.* Lectr.  
Cochrane, I., BSc PhD *Glas.* Lectr.  
Douglas, A. M. Lectr.  
Tedford, D. J., BSc PhD *Glas.* Lectr.  
Pomella, P. L. V., BSc *Glas.* Lectr.  
Pitt, E. Lectr.  
McNaull, J., BSc Lectr.

**Engineering, Mechanical, Civil and Chemical**

Thomson, A. S. T., DSc PhD *Glas.*,  
MIMechE (Mech. E.) Prof., Hd. of Dept.  
Frazer, W., BSc PhD *Glas.* (Civil E.) Prof.  
Scott, A. W., CBE, BSc PhD *Glas.*,  
MIMechE (Chem. E.) Prof.  
Orkney, J. C., BSc *Glas.*, MIMechE  
(Mech. E.) Assoc. Prof.  
Laud, A. M., BSc *Glas.*, MIMechE  
(Appl. Thermodynamics) Principal Lectr.  
McBroom, H. L., BSc PhD *Glas.*  
(Mechanics of Fluids) Principal Lectr.  
Mour, C. M., BSc *Lond.*, PhD *Glas.*  
(Struct. E.) Principal Lectr.  
Kenedi, R. M., CH *Lima*, BSc PhD *Glas.*  
(Strength of Materials & Design)  
Principal Lectr.  
McHutchison, W. B., BSc *Lond.* Sr. Lectr.  
Stabler, G. V., BSc *Durh.*, MIMechE Sr. Lectr.  
Hendry, R., BSc *Glas.* Sr. Lectr.  
Swinhanks, D. B., DIC, BSc *Lond.* Sr. Lectr.  
MacLaren, J. F. T., BSc PhD *Glas.*,  
MIMechE Sr. Lectr.  
Harvey, J. M., BSc PhD *Glas.*,  
MS *Stan.* Sr. Lectr.  
McKinlay, D. G., BSc *Glas.* Sr. Lectr.  
Tudhope, R. G., BSc *Glas.* Sr. Lectr.  
White, R., BSc *Glas.* Sr. Lectr.  
Allan, T., BSc *Lond.* Sr. Lectr.  
Dykes, A. R., BSc *Glas.* Sr. Lectr.  
Webster, J. T., BSc *Lond.* Sr. Lectr.  
Brown, J., BSc *Lond.* Lectr.  
McWee, D. Lectr.  
Nelson, J. H., BSc *Glas.* Lectr.  
Blair, M., BSc *Glas.* Lectr.  
Rachman, D., BSc *Glas.* Lectr.  
Joss, E. J., BSc *Glas.* Lectr.  
Lauder, W., BSc *Glas.* Lectr.  
Holmes, W. T., BSc *Glas.* Lectr.  
Crawford, R. A., BSc *Glas.* Lectr.  
Paul, J. P., BSc *Glas.* Lectr.

Wooldridge, D. Lectr.  
Beggs, G. C., BSc *Belf.* Lectr.  
Shearer Smith, W. Lectr.  
Kerr, S. V., BSc *Glas.* Lectr.  
Jackson, R. W., BSc *Lond.* Lectr.  
Lough, A. L., BSc *Glas.* Lectr.  
Tooth, A. S., MSc *Manc.* Lectr.  
Kirkpatrick, W. M., BSc PhD *Glas.* Lectr.  
Baillie, G. A. M., BSc *Glas.*, MA *Camb.* Lectr.  
Bennet, D. J., BSc *Edin.* Lectr.  
Kras, F. E., BSc *Lond.* Lectr.  
Ritchie, A. G. B., BSc *Glas.* Lectr.  
Robertson, E. R., BSc *Glas.* Lectr.  
Smith, A. A., BSc *Glas.* Lectr.  
McLaughland, J., BSc *Glas.* Lectr.  
Rooney, D. H. Lectr.  
Simpson, W. G. Lectr.  
Mills, R. D., BSc *St. And.* Lectr.  
Clarke, D., BSc *Durh.* Lectr.  
Bradford, A. M., BSc *Glas.* Lectr.  
Aitken, R. B., BSc *Glas.* Lectr.  
MacDuff, I. B., BSc *Glas.* Lectr.  
Kubie, R. M., BSc *Glas.* Lectr.  
Hartley, G. E., MA *Camb.* Lectr.  
Black, M. M., MSc *Durh.* Lectr.  
Webster, J. T. W., BSc *St. And.* Lectr.  
Reid, D., BSc *Glas.* Lectr.  
Barr, D. I. H., BSc *Glas.* Lectr.  
Patrick, J. K., BSc *Glas.* Lectr.  
Davidson, R., BSc *Glas.* Lectr.  
Barrowman, E. M. Lectr.  
Hossack, J. D. W., BSc *Glas.* Asst. Lectr.

**Engineering, Mining**

Hibberd, G., PhD *Glas.* Prof.  
Flett, W. R., BSc *Glas.*, FGS Sr. Lectr.  
Stewart, A. W. K., BSc *Glas.* Sr. Lectr.  
Burnett, W. R., BSc PhD *Edin.* Sr. Lectr.  
Bryce, M. W., BSc *Glas.*, MICE Lectr.  
Currie, J., BSc *St. And.* Lectr.  
Bowes, G. E., BSc PhD *Glas.* Lectr.  
Maxwell, G. M. Lectr.  
Jones, I. O., BSc *Wales* Lectr.

**Food Science**

Hawthorn, J., BSc PhD *Glas.*, FRIC Prof.  
Leitch, J. M., BSc *Glas.*, FRIC Sr. Lectr.  
Duckworth, R. B., BSc *Leeds*,  
PhD *Aberd.* Lectr.  
Wight, J., BSc *Glas.* Lectr.  
Tonseth, E. I., MSc *Corn.* Lectr.  
Clegg, Kathleen M., MSc *Manc.*,  
PhD *Aberd.* Lectr.  
Morrison, W. R. Asst. Lectr.

**Industrial Administration**

Macrae, C., CBE, MA *Glas.*, DPhil *Oxon.* Prof.  
Gay, W. A., BSc *Glas.* Sr. Lectr.  
Loudon, J. Sr. Lectr.  
Costain, G. D., BCom *Liv.* Sr. Lectr.  
Clarke, I. F., MA *Liv.* Sr. Lectr.  
Hanika, F. de P. Lectr.  
Glen, E. Lectr.  
Cameron, D. Lectr.

Shaw, R. K.  
 Monaghan, W., BSc *Glas.*  
 Allan, W. G.  
 Butt, J., BA *Lond.*  
 Lomax, E. S.  
 Robertson, T.  
 Gordon, D. R., BA *Oxon.*

Lectr. Henderson, G., BSc *Glas.*  
 Lectr. Angell, W. R., BSc *Mass.*  
 Lectr. MacInnes, I.  
 Lectr. Murray, I.  
 Lectr.  
 Lectr.

Asst. Lectr.  
 Asst. Lectr.  
 Asst. Lectr.  
 Asst. Lectr.

### Mathematics

Pack, D. C., MA *Oxon.*, DSc *St. And.* Prof.  
 Lord, R. D., MSc *Lond.* Sr. Lectr.  
 Noble, B., BSc *Aberd.*, MA *Camb.* Sr. Lectr.  
 Helliwell, J. B., BSc PhD *Leeds* Sr. Lectr.  
 Williams, W. D., BSc *Wales* Lectr.  
 Eaton, J. C., MA *Glas.* Lectr.  
 Martyn, W., MSc *Lond.* Lectr.  
 Bartlett, C. C., MSc *Durh.* Lectr.  
 Smyrl, J. L., MA PhD *Belf.* Lectr.  
 Muir, W. W., BSc *St. And.*, PhD *Edin.* Lectr.  
 Crane, L. J., BSc PhD *Glas.* Lectr.  
 Howie, A. J., MA *Glas.*, PhD *Edin.* Lectr.  
 Fraser, J. G., BSc *Glas.* Lectr.  
 Sweet, Mrs. Myrtle V., BA *Camb.* Lectr.  
 McGregor, D. D., MA *Edin.* Lectr.  
 Wilson, S. B. L., BSc *Glas.* Asst. Lectr.  
 Warner, F. J., MSc *Lond.* Asst. Lectr.  
 Weir, D. G., MA *St. And.* Asst. Lectr.  
 Welsh, R. L., BSc *St. And.* Asst. Lectr.

### Metallurgy

Ellwood, E. C., BSc PhD *Lond.*, FIM Prof.  
 Taylor, J., MSc PhD *Durh.*, FIM Principal Lectr.  
 McLeod, J. M., BSc PhD *Glas.*, FIM Lectr.  
 Bell, H. B., BSc PhD *Glas.*, FIM Lectr.  
 Cooper, A. H., BSc PhD *Glas.* Lectr.  
 Kennedy, R., BSc PhD *Glas.* Lectr.  
 Downie, D. B., BSc *Glas.* Lectr.  
 Fabian, D. J., BSc PhD *Lond.* Lectr.  
 McLean, A., BSc *Glas.* Asst. Lectr.  
 2 Student Demrs.

### Natural Philosophy

Irving, J., MA *Glas.*, PhD *Birm.* Freeland Prof.  
 Sharpe, J. W., MA *Glas.*, FIP Sr. Lectr.  
 Jacob, L., MSc PhD DSc *Liv.*, FIP Sr. Lectr.  
 Symon, F. J., BSc PhD *Glas.* Lectr.  
 MacNeill, A. C. M., MA BSc *Glas.* Lectr.  
 Bagnall, L., MA *Glas.* Lectr.  
 McLaren, A. S., BSc *Glas.* Lectr.  
 Wylie, T. S. Lectr.  
 Weaver, C., BSc *Lond.* Lectr.  
 McKenzie, A. S. V., BSc *Edin.* Lectr.  
 Luffman, D., MA *Camb.*, BSc *Wales* Lectr.  
 Cole, J. F. I., MSc *Belf.* Lectr.  
 Griffiths, L. J., BSc PhD *Wales* Lectr.  
 Little, J., BSc *Edin.* Lectr.  
 Stern, F., BSc PhD *Edin.* Lectr.  
 Boag, T. R., BSc *Glas.* Lectr.  
 Jones, D. A., BSc PhD *Wales* Lectr.

### Naval Architecture

Bridge, I. C., BSc *Glas.* Hld. of Dept.  
 Hughes, J. H. Lectr.  
 Hunter, J. Lectr.

### Navigation, School of

Corse, Capt. J. R. Supt.  
 Hunter, Capt. A. Sr. Lectr.  
 Hill, Capt. R. T. W. Sr. Lectr.  
 Baldwin, Capt. G. D. Lectr.  
 Brown, Capt. H. H., DSC Lectr.  
 Blezard, Capt. W. C. Lectr.  
 Kennedy, Capt. D. M. Lectr.  
 Warden, Capt. A. Lectr.  
 Callender, Capt. A. Lectr.  
 Watkinson, Capt. D. Lectr.  
 Douglas, Capt. J. A. Lectr.  
 Forrester, R. J., BSc *Glas.* Lectr.  
 Watters, Capt. D. M. Lectr.  
 Wallace, K. M. Lectr.

### Pharmacy

Todd, J. P., PhD *Glas.*, FRIC Prof.  
 Rattray, G. Sr. Lectr., Chief Asst.  
 Gemmell, D. H. O., BSc *Glas.* Sr. Lectr.  
 Stenlake, J. B., BSc PhD *Lond.*, FRIC Sr. Lectr.  
 Fish, F., BPharm *Lond.*, PhD *Glas.* Lectr.  
 Comrie, A. M., BSc PhD *Glas.* Lectr.  
 Chilton, J., MPharm *Lond.* Lectr.  
 Paterson, J. L., BSc *Glas.* Lectr.  
 Williams, W. D., BPharm *Lond.*, PhD *Glas.* Lectr.  
 Dawson, Mary, PhD *Glas.* Lectr.  
 Nelson, P. F., BSc *Glas.* Lectr.  
 Shaw, J. A. M., BSc(Pharm) MSc *Belf.* Lectr.  
 Bell, N. D. S., BSc *Glas.* Lectr.  
 Ellworthy, P. H., BPharm PhD *Lond.* Lectr.  
 Duncan, Jessie G. C., BSc *Glas.* Asst. Lectr.  
 Newcombe, F., BSc *Glas.* Asst. Lectr.  
 Smail, G. A., BSc *Glas.* Asst. Lectr.

### Physics, see Natural Philos.

### Textile Technology

Meredith, R., DSc *Manc.*, FIP, FTI Prof.  
 Taylor, E. G., BScTech *Manc.* Principal Lectr.  
 Marvin, A. W. Lectr.  
 Elder, H. M. Lectr.  
 Grosicki, Z. Lectr.  
 Peacock, N., MA *Camb.*, MSc PhD *Leeds* Lectr.  
 Cochrane, A. Instr.

## OTHER STAFF

Physical Trg. Instr. : D. Matheson.

## GENERAL INFORMATION

Founded in 1796 under the will of Prof. John Anderson, Anderson's Coll. was, in 1886, joined with the Coll. of Science and Arts (1823), the first 'mechanics' instn., itself an offshoot of the original Anderson's Coll., and with the Atkinson Instn (1861) in the Glasgow and West of Scotland Technical Coll. From 1912 the coll. was known as the Royal Technical Coll. and in 1956 H.M. the Queen approved the title of the Royal Coll. of Science and Technol., Glasgow. The coll. was affiliated with the Univ. of Glasgow in March 1913 and was recognized by the University Grants Committee and placed on the list of univ. instns. receiving grant from the Treasury in 1919.

**BUILDINGS.** The main coll. bldg., which is situated in the centre of Glasgow, was completed in 1910. Built on a very liberal scale, it proved adequate for the expanding work of the coll. until just before 1939 when a small extension was added. Since then a major extension for mech., civil, chem. and mining engin., and a large students' union have been added and bldgs. acquired for a dept. of food sci. and the sch. of navigation. Plans have been prepared for new depts. of chem. and chem. technol. and completion of engin. bldg. to be put under construcn. in 1960. The gift of a mansion house and grounds near Glasgow in 1955 provided the nucleus of what is now a residential centre for management studies.

**CONSTITUTION.** The coll. operates under the city of Glasgow Royal Technical Coll. scheme, 1935, of the educnl. endowments commission, and has a bd. of governors (30), of whom half are apptd. by the hd. and the others are representative of facs., instns., learned socs. and public bodies. The governors are responsible to the Scottish Education Dept. for the management of all coll. affairs; academic matters are under the immediate control of a bd. of studies consisting of hds. of depts. with reps. of the non-professorial staff.

**INCOME (1958-59).** £778,304 (fees, 13.2 per cent.; donations, etc., 0.5 per cent.; endowments, 0.6 per cent.; parliamentary grants, 85 per cent.; other income, 0.7 per cent.).

**LIBRARIES.** The Andersonian libr., commemorating the founder of the coll., houses an extensive range of technical and scientific publiens. (over 50,000), incl. many of historical interest, the founder's libr. and the James Young collection of early alchemical, metall. and chem. books. There are also deptl. libr.

**LABORATORIES.** Ample facilities for undergrad. and postgrad. work of the highest standard.

**COURSES.** Under the affiliation ordinances, the

coll. provides full qualifying courses for degrees of the Univ. of Glasgow in engin. ('sandwich' course), appl. chem., pharm. and archit. For the associateship of the coll. (A.R.C.S.T.), courses of 4 yrs. are provided in civil, mech., electr., chem. and mining engin., naval archit. (all 'sandwich' courses), appl. chem., metall. ('sandwich' and 3-term), ceramics, appl. maths., appl. phys., pharm., food sci., microbiol., bldg. and textile technol. Entrance qualifs. for the associateship courses are given in the *Prospectus of Full-time Courses*.

Courses (1 yr.) for coll. postgrad. dipl. in advanced studies are available in appl. maths.; appl. phys.; chem. process devel.; extraction metall.; phys. metall.; mech. engin.; power engin. (incl. nuclear power); prodn. engin.; civil engin.; struct. engin.; environmental control engin. & resource utilization; electr. engin.; mining engin.; mining geol.; appl. geophys.; naval archit.; food sci.; microbiol.; textile technol.; town planning.

The Glasgow Sch. of Archit. is constituted by the depts. of archit. in the coll. and the Glasgow Sch. of Art under a jt. cttee. of governors, and issues dipls. in archit. (5 yrs.) and postgrad. dipls. in town planning (5 terms).

The dept. of indust. admin. in the coll., together with the dept. of business admin. in the Scottish Coll. of Commerce, form the Glasgow Sch. of Management Studies under a jt. cttee. of governors and make jt. provision of courses in personnel management (1 yr.), indust. management (1 yr.) and dipl. in management studies (4 yrs. pt.-time). The coll. residential centre for management studies at 'Chesters', Bearsden, nr. Glasgow, has accomm. for 54 students. A sp. feature of the work of the centre is a series of short full-time courses for persons nominated by firms.

In pt.-time classes the coll. offers a very wide range of technol. courses at advanced and postgrad. level. Under the scheme of the W. of Scotland cttee. for technical educn., the coll. classes form the apex of an educnl. pyramid, and pt.-time students from all parts of the W. of Scotland can complete their courses at the Royal Coll. of Science and Technol. The courses below advanced level are conducted by the various educn. authorities.

**RESEARCH.** Students can pursue res. for higher degrees of the Univ. of Glasgow and for coll. postgrad. dipl. In addn. to fundamental res., the coll. works in close co-operation with res. assocns. and industry. This is a sp. feature of coll. policy, which adds greatly to its res. resources and makes possible work on problems of current interest, sometimes on pilot plant and even larger scale.

**ADMISSION.** Admission to courses leading to degrees of the Univ. of Glasgow is conditional upon obtaining an attestation of fitness from the Scottish Univs.' Entrance Bd. (see Appendix II). The conditions for admission to associateship courses are broadly similar, except that a pass in a foreign lang. is not essential. Students wishing to read for external degrees of the Univ. of London must satisfy the admission requirements of that univ. (see Appendix II).

**TUITION FEES.** Degree courses—engin., appl. chem., pharmacy and archit., £55 p.a.; associateship courses, and other non-degree courses—£55 p.a.; postgrad. courses, £55 p.a.; environmental control engin. & resource utilization, £75 p.a. Fees for courses in indust. admin. and for pt.-time classes are shown in the relevant prospectuses.

**RESIDENCE.** Lochview Hall, 1085 Gt. Western Rd., Glasgow (tel.: Kelvin 3262), accomm. 50 male students. Fees: £3:10s. per week.

**STUDENT ASSOCIATIONS.** The student body acts through the students' representative council and joins with others in the Scottish Union of Students. There is a sports ground at Cambus-

lang and there are the usual facilities for indoor games. The coll. has a mod. gymnasium with a phys. trg. instr. A large new union has just been completed.

**FORMER STUDENTS' ASSOCIATION.** Formed in 1936. Copies of the *Annual Report* of the coll. are circulated to all members and social functions arranged regularly. A live register of members is kept by the hon. sec. at the coll. and members going overseas have valued the introductions provided by the assocn. Branches of the assocn. are active in Glasgow, London, Newcastle upon Tyne, Birmingham, S. Africa, Canada and Norway. Life membership is available to qualified applicants at a fee of £1:1s.

**PUBLICATIONS.** *Prospectus of Full-time Courses*, *Prospectus of Pt.-time Classes*; *Bursaries, Scholarships & Prizes*; *Prospectuses* for the following: sch. of archit., sch. of navigation, 'Chesters' residential centre for management studies; *Courses of Postgrad. Study*; *Environmental Control Engin. & Resource Utilization*; *Annual Report*; *Report on Research*.

## THE YEAR 1959

**MAJOR BUILDING DEVELOPMENTS.** Union completed.

**RETIREMENTS.** Prof. R. Hay (metall.); Prof. W. J. Smith (archit. & bldg.).

**RESIGNATIONS.** J. Morgan (nat. philos.), apptd. lectr., Edin.; Prof. F. S. Spring (chem.), apptd. to post in industry; Dr. G. T. Newbold (chem.), apptd. to post in industry; Dr. A. N. Strachan (chem.), apptd. lectr., Loughborough tech. coll.; Dr. R. N. Barraclough (chem.), apptd. to post in industry; H. Gibson (chem. technol.), apptd. to post in industry; D. S. Ross (mech. engin.), apptd. to post in industry; Dr. D. Edwards (pharm.), apptd. hd. of dept., Robt. Gordon's Coll.; Joan W. Broadfoot (pharm.), on marriage; R. T. Coutts (pharm.), apptd. lectr., tech. coll., Sunderland; Dorothy M. McTeague (pharm.), apptd. lectr., Dub.; P. Higgins (indust. admin.), apptd. lectr., Birm.

**DEATH.** Dr. P. T. Carter (sr. lectr. in metall.).

### Statistics

#### STUDENT NUMBERS, 1959-60

	Full-Time	Part-Time
Men . . .	1630	3139
Women . . .	108	131
Total . . .	1738	3270

**Distribution by Courses.** (a) Full-time—civil engin., 202; chem. engin., 84; prodn. engin., 4; electr. engin., 211; environ. engin., 6; mech. engin.,

425; mining engin., 22; naval archit., 42; appl. chem., 216; metall., 90; appl. phys., 49; appl. maths., 21; bldg. technol., 20; textile technol., 19; food sci., 25; microbiol., 8; pharm., 155; archit., 110; town planning, 1; navigation (ext. master), 8; indust. admin., 20. (b) Part-time—civil engin., 216; chem. engin., 12; electr. engin., 162; mech. engin., 450; mining engin., 61; municipal engin., 9; sanitary engin., 2; naval archit., 76; prodn. engin., 88; struct. engin., 33; appl. chem., 59; metall., 72; gas manuf., 15; appl. phys., 59; maths., 120; bldg. technol. & quant. sur., 200; dyeing, 5; textile technol., 103; baking technol., 101; food sci., 80; microbiol., 2; pharm., 19; archit., 145; town planning, 9; navigation, 564; indust. admin., 608.

**DEGREES AWARDED** (by Univ. of Glasgow) (1958-59). BSc in engin.—civil, 6; mech., 18; electr., 10; chem., 10; mining, 2; appl. chem., 25; appl. chem. (metall.), 4; pharm., 21. PhD (all facs.), 23; DSc, 1. Total number of first degrees awarded, 96.

**DIPLOMAS, ETC., AWARDED** (1958-59). (a) *Associateships*—civil engin., 29; mech. engin., 70; electr. engin., 31; mining engin., 7; naval archit., 8; chem. engin., 12; bldg. technol., 14; tech. chem., 23; chem., 12; metall., 14; appl. phys., 5; pharm., 3; food sci., 3. (b) *Postgrad. dipls.*—environmental control engin., 5; civil engin., 3; mech. engin., 2; mining engin., 1; chem. technol., 10; chem., 1; textile technol., 1; food sci., 1; microbiol., 1.

# UNIVERSITY OF ST. ANDREWS§

Founded 1411

*Postal Address* : St. Andrews, Scotland

*Cables and Telegrams* : University, St. Andrews

*Telephones* (University Offices) :

St. Andrews—St. Andrews 1211

Queen's College, Dundee—Dundee 22631

CHANCELLOR AND PRESIDENT OF THE GENERAL COUNCIL—His Grace THE DUKE OF HAMILTON, KT, GCVO, AFC, LLD

RECTOR AND PRESIDENT OF THE UNIVERSITY COURT—The Rt. Hon. THE LORD BOOTHBY, OF BUCHAN AND RATTRAY HEAD, KBE, MA *Oxon.*, LLD

PRINCIPAL AND VICE-CHANCELLOR—T. M. KNOX, MA *Oxon.*, LLD *Edin.* & *Penn.*

MASTER OF ST. SALVATOR'S COLLEGE—Professor J. N. WRIGHT, MA *Durh.*

MASTER OF QUEEN'S COLLEGE—Professor A. A. MATHESON, QC, MA LLB *Edin.*

PRINCIPAL OF ST. MARY'S COLLEGE—Rev. Professor M. BLACK, MA DD DLitt *Glas.*, DrPhil *Bonn.*, DrTheol *Mün.*, FBA

SECRETARY AND REGISTRAR—D. J. B. RITCHIE, BL *Edin.*

TREASURER AND FACTOR—J. DUNCAN, CA

LIBRARIAN—G. H. BUSHNELL, FLA

JOINT CLERKS OF UNIVERSITY COURT—P. CUMMING, MA LLB *Aberd.* ; D. M. DEVINE, MA *Glas.*, LLB *Lond.*

## TEACHING STAFF

[\* = at Queen's College ; † = Part-Time]

### Anatomy

Walmsley, R., MD <i>Edin.</i> , FRCSEd	Bute Prof.
Smith, J. W., MD	(Regional A.) Sr. Lectr.
Frame, J., MB ChB <i>Glas.</i>	Lectr.
Rintoul, J. R., BSc MD	Lectr.
Mar, W. F., TD, MD <i>Edin.</i>	Asst.
McAdam, A. H., MB ChB	Demr.
Coupland, R. E., MD PhD <i>Leeds</i>	Cox Prof.*
MacDougall, J. D. B., MD	Sr. Lectr.*
Heath, I. D., MB ChB <i>Edin.</i>	Lectr.
Smart, I. H. M., MB ChB <i>Edin.</i>	Lectr.*
Grant, L., MB ChB <i>Aberd.</i>	Demr.*
Matthews, J. M., MB ChB	Demr.*
Glashan, R. W., MB ChB <i>Aberd.</i>	Demr.*

### Astronomy

Stubbs, D. W. N., MSc <i>Syd.</i> , DPhil <i>Oxon.</i>	Napier Prof.
Slebarski, T. B., MA	Lectr.
Carson, T. R., BSc PhD <i>Belf.</i>	Sr. Lectr.
Cisar, J., BSc <i>N.Y.</i> , DSc <i>Prague</i>	Lectr.
Meadows, A. J., MA DPhil <i>Oxon.</i>	Lectr.

### Biochemistry, see Physiol.

### Botany

Macdonald, J. A., BSc PhD <i>Edin.</i> , DSc	Prof.
Blackler, Margaret C. H., BSc PhD <i>Liv.</i> , FLS	Lectr.
Weeks, D. C., BSc <i>Melb.</i> , MA PhD <i>Camb.</i>	Lectr.
Spence, D. H. N., BSc <i>Edin.</i> , PhD <i>Glas.</i>	Lectr.
Robertson, D. A., BSc PhD <i>Durh.</i>	Lectr.*
Robertson, Mrs. Janet, BSc <i>Edin.</i>	Asst.*

### Chemistry

Read, J., BSc <i>Lond.</i> , MA ScD <i>Camb.</i> , DrPhil <i>Zür.</i> , FRS	Purdie Prof., Dir of Chem. Res. Lab.
Horrex, C., MSc PhD <i>Manç.</i>	Sr. Lectr.
Gunstone, F. D., BSc PhD <i>Liv.</i>	Sr. Lectr.
Lloyd, D. M. G., BSc <i>Brist.</i>	Lectr.
Reid, D. H., BSc PhD <i>Edin.</i>	Lectr.
Calvert, D., BSc PhD	Lectr.
Blake, P. G., BSc <i>Lond.</i> , DPhil <i>Oxon.</i>	Lectr.
Sugden, Mrs. Penelope A., BSc	Demr.
Walsh, A. D., MA PhD <i>Camb.</i> , FRIC	Baxter Prof.*
Roger, R., BSc PhD, FRIC	Sr. Lectr.*

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Smith, Isobel A., MA PhD DSc Sr. Lectr.\*  
 Copp, J. L., BSc MA Oxon., PhD Sr. Lectr.\*  
 Watson, Mrs. Kathleen M., BSc PhD Edin.  
 †Lectr.\*  
 Hoare, D. E., MA Camb., PhD Leeds Lectr.\*  
 Nechvatal, A., MSc PhD Lond. Lectr.\*  
 Bethell, D. E., BA PhD Camb. Lectr.\*  
 Foster, R., MA DPhil Oxon. Lectr.\*  
 Jameson, R. F., BSc PhD Lond. Lectr.\*  
 Iball, J., PhD DSc Wales, FIP †Lectr.\*  
 Stewart, E. T., MSc PhD Cape T. Lectr.\*  
 Neilson, D. G., BSc PhD †Lectr.\*  
 McGavin, A. S., BSc PhD †Lectr.\*  
 Wright, P. G., MA PhD Camb. Asst.\*  
 Allen, C. R., BSc PhD Leeds Asst.\*

**Classics**, see Greek and Latin

### Dark Age Studies

Wainwright, F. T., BA PhD R'dg., FSA, FRHistS Sr. Lectr.

**Dentistry**, see below

### Divinity

Black, Rev. M., MA DD DLitt Glas., DrPhil Bonn, DrTheol Mün., FBA (Bibl. Crit.) Prof.  
 Baxter, J. H., MA DD Glas., BD Aberd., DULouvain, DLitt (Eccles. Hist.) Prof.  
 Dickie, E. P., MC, BA Oxon., MA DD Edin. Prof.  
 Whyte, J. A., MA Edin. (Practical Theol. & Christian Ethics) Prof.

Robinson, N. H. G., MA DLitt Glas., BA Oxon., BD Edin. (Systematic Theol.) Prof.  
 Wilson, R. M., MA BD Edin., PhD Camb. (N.T. Lang. & Lit.) Lectr.  
 Cameron, J. K., PhD Hartford, MA BD (Eccles. Hist.) Lectr.

### Economics

Nisbet, J. W., MA LLB Glas. Prof.  
 Cole, A. V., MA Lectr.  
 Savage, C. I., MCom Birm. Lectr.  
 O'Leary, P. J., BA Wales, BPhil Oxon. Lectr.  
 Blake, C., MA Lectr.

### Economics, Applied\*

Campbell, A. D., MA Glas. Bonar Prof.  
 Eastham, J. K., BSc Lond. Sr. Lectr.  
 Pattison, Jean S., BCom MA Edin., PhD Lond. Lectr.  
 Jackson, J. M., BA Wales, PhD Manc. Lectr.  
 Livesey, F., BA Manc. Lectr.

### Education\*

Adams, J. W. L., BA Oxon., MA Bell Prof.  
 McFarland, H. S. N., MA Aberd., BEd Edin. Lectr.  
 Sturrock, G. W., BEd Edin., MA †Lectr.

### Engineering, Civil and Mechanical\*

Dick, J., BSc Glas., MA Oxon., PhD Sheff. Prof.  
 McNicoll, W., BSc Sr. Lectr.  
 Hall, A. P., BSc PhD Lectr.  
 Gibb, A., BSc Lectr.  
 Williamson, R. L., BSc Lond. Lectr.  
 Davidson, I., BSc Aberd. Lectr.  
 (Mech. E. & Machine Design) Lectr.  
 Jackson, N., BSc PhD Leeds Lectr.  
 Craig, R. F., BSc Lectr.  
 Watt, D., BSc Lectr.

### Engineering, Electrical\*

Cullwick, E. G., OBE, MA Camb., DSc Watson Watt Prof.  
 Cruickshank, A. J. O., PhD Glas., BSc Reader  
 Mackay, W. M., MC, TD, BSc Glas. Sr. Lectr.  
 Ballantine, J. R., BSc Lectr.  
 Bennet, J. A., BSc Edin., PhD Aberd. Lectr.  
 Baylis, P. E., BSc Lectr.

### English Language and Literature

Falconer, A. F., MA Glas. & Oxon., BLitt Oxon. Berry Prof.  
 Oakden, J. P., MA PhD Manc., DLitt Sr. Lectr.  
 Logan, R. M., MA Edin. Lectr.  
 Iadd, C. A., MA Oxon. Lectr.  
 Coulson, T. H., BA Oxon. Lectr.  
 Smith, J. N., BA BLitt Oxon. Lectr.  
 Alexander, R. N., MA Lectr.  
 Carnie, R. H., MA PhD Lectr.\*

### French Language and Literature

Johnston, R. C., MA Oxon. & Lond., DU Stras. Prof.  
 Brumfitt, J. H., MA DPhil Oxon. Sr. Lectr.  
 Wilson, R. A., MA PhD Lectr.  
 Owen, D. D. R., MA PhD Camb. Lectr.  
 Ouston, P. A., MA Lond. Lectr.  
 Price, G., MA Wales, DUParis Lectr.  
 Allott, T. J. D., BA Oxon. Asst.  
 O'Sharkey, Eithne M., MA PhD N.U.I. Lectr.\*  
 3 Lecteurs \*

### Geography

MacIver, Kathleen M., MA Oxon., PhD Edin. Lectr.  
 Paterson, J. H., MA Camb. & Wis. Lectr.  
 Whittington, G. W., BA PhD R'dg. Asst.  
 Jones, S. J., MA Wales Sr. Lectr.\*  
 Turner, W. H. K., MA Wales Lectr.\*

### Geology

Davidson, C. F., OBE, DSc Prof.  
 Drever, H. I., BSc Edin., PhD Camb. Sr. Lectr.  
 Harry, W. T., BSc Leeds Lectr.  
 MacGregor, A. R., BSc Glas., MSc McG., PhD Lectr.  
 Weir, J. A., BSc PhD Glas. Lectr.  
 Williamson, T. F., BSc (Topographical Surveying) †Lectr.  
 Hopgood, A. M., MSc N.Z. Asst.

Walker, F., MA *Camb.*, PhD DSc *Edin.*Richey, J. E., BA ScD *Dub.*, FRSRamsay, D. M., BSc PhD *Glas.*

Sr. Lectr.\*

Lectr.\*

Lectr.\*

**German**Carr, C. T., MA *Manc.*, DLitt

Brill, E. V. K., MA

Lindsay, J. M., MA PhD *Aberd.*

Strachan, T., MA

Trainer, J., MA PhD

Branscombe, P. J., MA *Oxon.*Havens, K. C., MA DLitt *Glas.*

Robertson, A. G., MA

1 Lektor

Prof.

Sr. Lectr.

Lectr.

Lectr.

Lectr.

Lectr.

Reader\*

Lectr.\*

**Greek**Dover, K. J., MA *Oxon.*Young, D. C. C., MA *St.And. & Oxon.*

Sr. Lectr.

Lectr.

Kidd, I. G., BA *Oxon.*, MA

Henry, A. S., MA

Asst.

**Hebrew and Oriental Languages**Honeyman, A. M., BD *Edin.*, PhD *Chic.*,

MA BLitt

Prof.

Bosworth, C. E., MA *Oxon. & Edin.*

(Arabic Lang. &amp; Lit.) Lectr.

Ghul, M. A., LèsL *Cairo*

(Semitic Langs.) Lectr.

**History, American and Colonial**Seed, G., MA *Durh.*, AM *Mich.*, PhD Lectr.**History, Ancient**Ewins, Ursula E., MA *Oxon.*

Lectr.

**History, Economic**

Carstairs, A. M., MA BPhil

Sr. Lectr.

**History, Mediæval**Butler, L. H., MA DPhil *Oxon.*, FRHistS Prof.Adam, R. J., MA *Oxon.*

Sr. Lectr.

Watt, D. E. R., MA *Aberd.*, DPhil *Oxon.* Lectr.Dobson, R. B., BA *Oxon.*

Lectr.

Forey, A. J., BA *Oxon.*

Lectr.

**History, Modern**Gash, N., MA BLitt *Oxon.*, FRHistS Prof.Lambert, Margaret, BA *Oxon.*, PhD *Lond.* Lectr.Upton, A. F., MA *Oxon.*, AM *Duke*Erickson, J., MA *Camb.*

Lectr.

Collyer, C., MA *Oxon.*

Lectr.

Macdonald, D. F., MA *Aberd.*, DPhil *Oxon.*

Bonar Prof.\*

Lythe, S. G. E., MA *Camb.*

Sr. Lectr.\*

Ward, J. T., MA PhD *Camb.*

Lectr.\*

Southgate, D. G., BA *Lond.*, DPhil *Oxon.*

Lectr.\*

**History, Scottish**Cant, R. G., MA *Oxon. & St. And.*

Reader

**Latin (Humanity)**Wright, T. E., MA *Glas. & Oxon.*

Prof.

Mitford, T. B., MA *Oxon.*, FSA

(also Class. Archæol.) Reader

Simon, J. H., MA *Oxon.*

Sr. Lectr.

Dunbar, Nan V., MA *Glas. & Camb.*

Lectr.

Smith, M. S., MA *Glas. & Oxon.*

Lectr.

Flintoff, T. E. S., BA *Oxon.*

Asst.

**Law, Accountancy\***Lowden, G. S., MA *Camb.*, LLB, CA

†Lectr.

Sim, R. L., CA

†Asst.

**Law, Civil\***Hird, T. L., MA *Edin.*, LLB *Edin. & Lond.*

†Lectr.

**Law, Comparative \***Cowie, G. S., MA LLB *Aberd.*

Lectr.

**Law, Conveyancing\***McDonald, A. J., BA *Camb.*, LLB *Edin.*

Prof.

Coupar, A. J. W. R., DFM, BL

†Tutor

**Law, Evidence and Procedure\***Tudhope, Mrs. Christian J., LLB *Edin.*,

MA

†Lectr.

**Law, Forensic Medicine \***

Dorward, W. F., BSc MB ChB

†Lectr.

**Law, Jurisprudence\***Bowman, B. C., LLB *Edin.*, MA

†Lectr.

**Law, Mercantile \***

Robertson, I. M. S., BL

†Lectr.

**Law, Private International \***Cowie, G. S., MA LLB *Aberd.*

Lectr.

**Law, Public International\***Cowie, G. S., MA LLB *Aberd.*

Lectr.

**Law, Scots\***Matheson, A. A., QC, MA LLB *Edin.*

Prof.

Parker Smith, J. P., MA LLB

†Lectr.

Collins, D. F., MA LLB

†Lectr.

**Logic and Metaphysics, see Philos.****Mathematics, Pure and Applied**Copson, E. T., MA *Oxon.*, DSc *Edin.*

Regius Prof.

Rutherford, D. E., DrMath *Amst.*, MA

DSc (M. &amp; Appl. M.) (on leave) Reader

Mitchell, A. R., BSc PhD DSc

Sr. Lectr.

Borwein, D., BSc *Rand.*, PhD *Lond.*

Lectr.

Read, A. H., MA *Camb.*, PhD *Harv.*

Lectr.

Mackie, A. G., MA *Edin.*, BA *Camb.*,

PhD

(Appl. M.) Lectr.

Fantham, P. H. H., BA DPhil *Oxon.* Lectr.  
 Lambert, J. D., BSc Lectr.  
 Foster, Dorothy M. E., BA *Lond.* Lectr.  
 Parnaby, T. W., BSc PhD *Manc.* Lectr.  
 Macbeath, A. M., BA *Belf.*, MA *Camb.*,  
 PhD *Prin.* Baxter Prof.\*  
 Jackson, J. M., BSc *Lond.*, PhD *Camb.* Sr. Lectr.\*

Jack, H., MA *Edin.*, BA *Camb.* Lectr.\*  
 Anderson, H. G., MA PhD *Edin.* Lectr.\*  
 Pearce, R. P., BSc PhD *Lond.*, FRMetS Lectr.\*  
 Rushforth, J. M., BSc PhD *Birm.* Lectr.\*  
 Cole, A. J., MSc PhD *Lond.* Lectr.\*  
 Sands, A. D., MSc *Belf.*, PhD *Glas.* Lectr.\*  
 Adamson, I. T. A. C., AM PhD *Prin.*,  
 BSc Lectr.\*  
 Green, C. D., BSc PhD Lectr.\*  
 Wilkie, H. C., BSc Asst.\*

### Medicine and Surgery, see below

### Music

Davie, C. T., OBE, FRAM Master of Music, Reader  
 Reid, Elizabeth A. Demr.

### Philosophy

Wright, J. N., MA *Durh.*  
 (Logic & Metaphysics) Prof.  
 Smith, R. N. W., MA *Oxon.* & *Glas.* Lectr.  
 Heath, P. L., BA *Oxon.* Lectr.  
 Greig, G. M., MA *Edin.*, BA *Camb.* Lectr.  
 Montague, R. D. L., BA *Brist.*, BPhil *Oxon.*  
 (also Moral P.) Asst.  
 Henderson, G. P., MA *Oxon.* & *St.And.* Prof.\*  
 Cooper, N. L., MA BPhil *Oxon.* Lectr.\*  
 Hall, R., BA BPhil *Oxon.* Lectr.\*

### Philosophy, Moral

Woozley, A. D., MA *Oxon.* Prof.  
 Kemp, J., MA *Oxon.* Lectr.  
 McNeilly, F. S., MA *Glas.* Lectr.  
 Hall, J. C., MA *Oxon.* Lectr.  
 Montague, R. D. L., BA *Brist.*, BPhil *Oxon.*  
 (also Philos.) Asst.

### Physics

Allen, J. F., BA *Manit.*, MA *Tor. & Camb.*,  
 PhD *Tor.*, FRS Prof.  
 Jack, D., MA BSc *Edin.*, PhD, FIP Reader  
 Bijl, D., PhD *Ley.*, MA *Oxon.* Reader  
 Osborne, D. V., MA PhD *Camb.* Sr. Lectr.  
 Barkla, H. M., MA *Camb.*, BSc *Edin.*  
 (on leave) Lectr.  
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 Preston, G. D., MA ScD *Camb.*, FIP  
 Harris Prof.\*  
 Baranowski, D., BS-L *Paris*, IngdesMines  
 St.-Étienne Lectr.\*  
 Walton, G. F., MA DPhil *Oxon.*, FRMetS Lectr.\*  
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 Killean, R. C. G., BSc Lectr.\*  
 Sutherland, H. H., BSc Asst.\*

### Physics, Theoretical

Dingle, R. B., BA PhD *Camb.* Prof.  
 Kuper, C. G., MA PhD *Camb.*, BSc *Rand* Lectr.

### Physiology

Ritchie, A. E., MA BSc *Aberd.*, MD *Edin.*  
 Chandos Prof.  
 Taylor, J. H., MB ChB *Edin.*, DPH Sr. Lectr.  
 Crossland, J., MA *Oxon.*, PhD *Wales* Lectr.  
 Stephens, W. G. S., BSc (Biophys.) Lectr.  
 Bayne, S., BSc MB ChB (Biochem.) Sr. Lectr.  
 Tristram, G. R., BSc PhD *Liv.*  
 (Biochem.) Sr. Lectr.  
 Goodlad, G. A. J., BSc PhD *Glas.*  
 (Biochem.) Lectr.  
 Ingram, C. G., MB ChB *Aberd.* Asst.  
 Patterson, J. D. E., BSc *Birm.* (Biochem.) Asst.  
 Greig, Isabel C. A., MA BM BCh *Oxon.* Asst.  
 Bell, G. H., BSc MD *Glas.*, FRFPGlas  
 Symets P.of\*  
 Cook, R. P., DSc *Melb.*, PhD MB  
 BChir *Camb.* (Biochem.) Sr. Lectr.\*  
 Andrew, B. L., DSc *Lond.* Sr. Lectr.\*  
 Macqueen, A. T., MB ChB *Edin.* Lectr.\*  
 Mitchell, F. L., BSc *Liv.*, PhD *Sheff.* Lectr.\*  
 Dutton, G. J. F., BSc PhD *Edin.*  
 (Biochem.) Lectr.\*  
 Hemingway, J. T., MA PhD *Camb.* Lectr.\*  
 Chinnock, J. E., BSc *Lond.* Asst.\*  
 Alexander, E. R., MB ChB *Aberd.* Asst.\*

### Polish

Seliga, S. R., LLM *Poznan*, PhD *Warsaw* Lectr.

### Political Science\*

Elder, N. C. M., MA BLitt *Oxon.* †Lectr.

### Psychology

Ferguson, H. H., MA Lectr.  
 Flook, A. J. M., BA *Lond.* Lectr.\*  
 Lee, T. R., MA PhD *Camb.* Lectr.\*  
 Singer, B. R., BSc *Lond.* Lectr.\*  
 Loveless, N. E., MA *Edin.*, PhD *Durh.* Lectr.\*

### Radioactivity\*

Orr, J. C., MSc *Belf.* Lectr.

### Scottish Language

Murison, D. D., BA *Camb.*, MA *Aberd.* †Lectr.

### Social Administration\*

MacKnight, Mrs. Catherine O., MA *Edin.* †Lectr.

Morrison, Rhona, MA *Glas.*  
 Ferguson, Isla M., MA

Tutor  
 Tutor

### Spanish

Woodward, L. J., MA *Camb.* Sr. Lectr.  
 Gifford, D. J., MA BLitt *Oxon.* Lectr.  
 Dixon, V. F., BA PhD *Camb.* Lectr.  
 Pacheco, A. R., DPhil *Barcelona*, PhD *Glas.* Asst.

### Statistics

Gray, J. R., BSc *Edin.*, FFA Lectr.  
 Makinson, G. J., BSc Lectr.  
 Faulkner, T. E., MA PhD *Camb.* Sr. Lectr.\*  
 Hutchings, K. R., BSc *Lond.* Lectr.\*

### Theology, sec Div.

### Zoology

Callan, H. G., MA *Oxon.*, DSc *Edin.* Kennedy Prof.  
 Burt, D. R. R., BSc, FLS Sr. Lectr.  
 Horridge, G. A., MA PhD *Camb.* Lectr.  
 Muir, C., BSc *Aberd.* Lectr.  
 Laverack, M. S., BSc PhD *S'ton.* Lectr.  
 Pottage, R. H., BA *Camb.* Asst.  
 Sandeman, I. M., BSc Asst.  
 . . . Boyd Baxter Prof.\*  
 Waterhouse, F. L., MSc *Manc.*, PhD Sr. Lectr.\*  
 Sanderson, Ann R., BSc PhD Sr. Lectr.\*  
 Nowosielski-Slepowron, B. A. J., BSc Asst.\*

## DENTISTRY\*

### Dental Anaesthetics, Clinical\*

Lawson, J. I. M., MB ChB *Edin.* Lectr.  
 Nelson, N., MB ChB †Asst. Lectr.  
 Ferguson, J. G., MB ChB †Tutor

### Dental Anatomy and Histology\*

Symons, N. B. B., BDS MSc *Belf.* Sr. Lectr.

### Dental Diseases of Children and Orthodontics\*

McEwen, J. D., LDS  
 (also Lectr. in Clin. D. Surg.) Sr. Lectr.  
 Cockburn, A. †Tutor

### Dental Histopathology\*

Hall, D. C., MB ChB BChD *Leeds*,  
 FDSRCSEd Lectr.

### Dental Jurisprudence\*

Tattersall, W. R., LDS, FDSRCSEd  
 (also Asst. Lectr. in Clin. D. Surg.)  
 †Lectr.

### Dental Materials\*

Whyte, R., PhD LDS DPD, FDSRCSEd  
 (also Asst. Lectr. in Clin. D. Surg.)  
 †Lectr.

### Dental Mechanics and Prosthetics\*

Anderson, J. N., MDS *Sheff.*  
 (also Lectr. in Clin. D. Surg.) Sr. Lectr.  
 McCrorie, J. W., LDS Lectr.

### Dental Surgery\*

Hitchin, A. D., MDS DDS *Durh.*,  
 FDSRCSEd Boyd Prof.

### Dental Surgery, Clinical\*

Hitchin, Prof. A. D., MDS DDS *Durh.*,  
 FDSRCSEd Lectr.  
 Black, E. N., LDS †Asst. Lectr.  
 Conacher, F., LDS †Asst. Lectr.  
 Crighton, J. T., LDS †Asst. Lectr.  
 Milne, J. L., BDS †Asst. Lectr.  
 Davie, A. S., MB ChB †Asst. Lectr.  
 Summersgill, G. B., BChD LDS *Leeds*,  
 FDSRCSEd †Asst. Lectr.  
 Muir, A., FDSRCSEd †Asst. Lectr.  
 Martin, D. A. S. †Asst. Lectr.

### Operative Dental Surgery and Dental Therapeutics\*

Fairley, J. M., BDS  
 (also Lectr. in Clin. D. Surg.) Sr. Lectr.  
 Jeffrey, I. W. M. Lectr.

### Oral Hygiene and Preventive Dentistry\*

McHugh, W. D., BDS LDS DDS  
 (also Asst. Lectr. in Clin. D. Surg.) Lectr.

### Public Dentistry\*

Finlayson, D. A. †Lectr.

## MEDICINE\*

(for pre-clinical subjects—Anat., etc., see above)

### Anaesthetics\*

Shearer, W. M., BSc MD, FFARCS †Lectr.  
 Soutar, Mrs. Margaret E., MB ChB †Lectr.  
 Lawson, J. I. M., MB ChB *Edin.*,  
 FFARCS †Lectr.  
 Franks, E. H., MB BS *Lond.*, FFARCS †Lectr.  
 Dangerfield, D., FFARCS †Lectr.  
 Buchanan, W. E. A., MB ChB †Tutor  
 Muir, Margaret C., MB ChB †Tutor

### Bacteriology\*

Tulloch, W. J., OBE, MD Prof.  
 Sommerville, T., MD *Edin.* Sr. Lectr.  
 Green, D. M., MB ChB Sr. Lectr.  
 Shepherd, W., MD Lectr.  
 Dunbar, J. M., BSc MD (on leave) Lectr.  
 Simmons, D. A. R., MD Lectr.  
 Christison, Mrs. J. N., BSc Lectr.  
 Harper, I. A., MB ChB Asst.  
 Dick, Mrs. Heather M., MB ChB Asst.  
 Smallwood, Avril J., MB ChB Asst.



Murdoch, G., MB ChB, FRCSEd †Lectr.  
 Clark, G. L., MB ChB Glas., FRCSEd, †Tutor  
 FRFSGlas  
 Campbell, C. S., MB ChB Edin., †Tutor  
 FRCSEd †Tutor  
 Moore, F. H., MB BCh Dub., FRCSEd †Tutor  
 Stewart, I. M., MB ChB, FRCSEd †Tutor  
 Caird, D. M., MB ChB, FRCS †Tutor

**Pathology \***

Lendrum, A. C., MA BSc MD Glas. Prof.  
 Park, W. W., MD Edin. Sr. Lectr.  
 Goodall, H. B., MD Sr. Lectr.  
 Morgan, H. G., BSc MB ChB Sr. Lectr.  
 Smith, G. H., TD, MD †Lectr.  
 Prain, J. H., MD †Lectr.  
 Haslock, Margaret R., BSc Lectr.  
 Guthrie, W., MB ChB Lectr.  
 Barclay, G. P. T., MB ChB Edin. Lectr.  
 Todd, A. S., MB BS Durh. Lectr.  
 Kirkland, J. A., MB ChB Lectr.  
 Gribble, M. de G., MA BSc DM Oxon. †Asst.  
 Duguid, Helen L. D., MD Aberd. †Asst.  
 Davidson, R. J. L., MB ChB Asst.  
 Briggs, Elizabeth M. G., MB ChB Asst.  
 Grieve, Colma A., BSc Lond. Asst.  
 Millar, K. G., MB ChB Asst.  
 Cameron, C., MB ChB Glas. †Demr.  
 Boswell, J., MB ChB †Demr.

**Pathology, Clinical \***

Goodall, H. B., MD Lectr.  
 Morgan, H. G., BSc MB ChB Lectr.

**Pharmacology and Therapeutics \***

Hunter, R. B., MBE, MB ChB Edin.,  
 FRCPEd (Materia Medica) Prof.  
 Walker, W., MA MB ChB  
 (Therapeutics) Sr. Lectr.  
 Marshall, P. B., BPharm BSc PhD Lond.  
 (Pharmacol.) Sr. Lectr.  
 Shepherd, D. M., BSc PhD  
 (Pharmacol.) Sr. Lectr.  
 McNeill, R. S., MB ChB Edin.  
 (Therapeutics) †Lectr.  
 Matty, A. J., BSc Lond., PhD Nott.  
 (Compar. Pharmacol.) Lectr.  
 Sprunt, J. G., BSc MB ChB  
 (Therapeutics) Lectr.  
 Boullin, D. J., MSc Lond. (Pharmacol.) Asst.  
 Grayson, M. F., BSc MB ChB Birm.  
 (Therapeutics) Asst.

**Psychiatry \***

Uytman, J. D., MB ChB Glas., Prof.  
 DPM Lond. Sr. Lectr.

**Psychiatry, Clinical \***

..... †Lectr.  
 Batchelor, I. R. C., MB ChB Edin.,  
 DPM Lond., FRCPEd †Lectr.  
 Uytman, J. D., MB ChB Glas.,  
 DPM Lond. Lectr.

Macrae, M. M., MD Edin., DPM Manc. †Lectr.  
 Aungie, P. G., MB ChB Edin., DPM Lond.

Fowlic, H. C., MB ChB †Lectr.  
 McLarg, J. F., MB ChB, FRCPEd Lectr.  
 Rorie, R. A. B., MD †Clin. Asst.

**Psychology, Clinical \***

McGhie, A., MA PhD Glas. Lectr.

**Public Health and Social Medicine \***

Mair, A., MD DPH Aberd.  
 James Mackenzie Prof.  
 Wilson, W. A., DPH Lond., MD  
 (Pub. Health) Lectr.  
 Graham, H. A., BSc MD, FRCSEd  
 (Soc. Med.) †Lectr.  
 Weir, I. B. L., DPH Glas., BSc MB ChB  
 (Pub. Health) †Lectr.  
 Smith, E. A., MB ChB PhD Birm., DPH Lectr.  
 Simpson, J., MD Glas., DPH Sr. Lectr.  
 Riddell, G. S., MD Aberd., DPH †Lectr.  
 Dorward, W. F., BSc MB ChB †Asst.  
 Fulton, Annie A., MD DPH †Asst.  
 Gerrard, Dora W., MB ChB Edin., DPH †Asst.  
 Qusklay, J. A. (Phys. Educn.) †Asst.  
 Gauldie, W. S. (Town Planning) †Asst.  
 Rankine, D. B. L., MB ChB  
 (Occupational Health) †Asst.

**Radiology and Radiotherapy \***

Swanson, W. C., MB ChB Glas.,  
 DMR Edin. †Lectr.  
 Pickard, C., BSc MD Leeds †Lectr.  
 Sprunt, T., MB ChB DMR Edin.,  
 FRCSEd †Lectr.  
 Riley, J. F., MD DMRT Edin., PhD,  
 FRCSEd †Lectr.  
 Dewar, D. A. E., DMR Edin., MB ChB,  
 FFR †Lectr.  
 Howie, G. F. A., MB ChB DMRD Edin.,  
 MRCPEd, FFR †Lectr.

**Surgery \***

Douglas, D. M., MBE, MS Minn., MB  
 ChM, FRCS, FRCSEd Prof.  
 Grieve, J., BSc MD ChM, FRCSEd Sr. Lectr.  
 Walker, W. F., MB ChM, FRCSEd, FRCS  
 Sr. Lectr.  
 Stewart, J. S. S., MB ChB Glas. †Lectr.  
 Ogilvie, R. R., BSc (Biochem.) Lectr.

**Surgery, Clinical \***

Douglas, Prof. D. M., MBE, MS Minn.,  
 MB ChM, FRCS, FRCSEd Lectr.  
 Campbell, W. G., MB ChM LDS, FRCS †Lectr.  
 Sturrock, G. M., MB ChB Edin.,  
 FRCSEd †Lectr.  
 Grieve, J., BSc MD, FRCSEd Lectr.  
 Soutar, S. F., MB ChB, FRCSEd †Lectr.  
 Charleson, C., BA BM BCh Oxon.,  
 FRCSEd †Lectr.

Kirkpatrick, E. R. G., MB ChM *Syd.*,  
 FRCSEd †Lectr.  
 Kinneir, J. S., MB ChB, FRCSEd †Lectr.  
 Walker, W. F., MB ChM, FRCSEd, FRCS Lectr.  
 Anderson, C. J. B., MB ChB *Aberd.*,  
 FRCSEd †Lectr.  
 Clark, J. A. L., MB ChM *Edin.*, FRCSEd †Lectr.  
 Blair, J. S. G., BA *Lond.*, MB ChB,  
 FRCSEd †Tutor  
 Kerr, G., DFC, MB ChB, FRCSEd †Tutor

#### Tuberculosis\*

Smith, D. H., MD †Lectr.

Johnston, R. N., MD *Aberd.* †Lectr.  
 Ritchie, R. T., MB ChB *Edin.* Tutor

#### Venereal Diseases\*

Keay, D. M., MB ChB DPH †Lectr.  
 Finnigan, Mrs. Jeannie P., MB ChB  
 DPH †Tutor

#### GIFFORD LECTURER IN NATURAL THEOLOGY

1960-61, 1961-62—The Hon. Sir Steven Runciman, MA LittD *Camb.*, LLD *Glas.*, FBA

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ADVISERS OF STUDENTS. *St. Salvator's Coll.*: in Arts, G. Seed, asstd. by L. J. Woodward, A. M. Carstairs, R. M. Logan, J. Kemp; in Sci., Dr. D. E. Rutherford, D. R. R. Burt, Dr. F. A. Rushworth; in Med., Prof. A. E. Ritchie. *Queen's Coll., Dundee*: in Arts, Dr. K. C. Hayens, asstd. by S. G. E. Lythe; in Sci., Dr. J. M. Jackson, Dr. J. L. Copp; in Med., Prof. G. H. Bell, in Appl. Sci., Prof. E. G. Cullwick; in Dent., Prof. A. D. Hitchin; in Law, B. C. Bowman, in Soc. Sci., S. G. E. Lythe.

WARDENS OF RESIDENCES. *St. Andrews*: St. Salvator's Hall, J. H. Taylor, MB ChB *Edin.*, DPH; Hamilton Hall, R. A. Wilson, MA PhD; St. Regulus Hall, J. Frame, MB ChB *Glas.*; Hepburn Hall, M. Smith, MA *Glas.* & *Oxon.*; Deans Court, C. A. Ladd, MA *Oxon.*; University Hall, Mrs. Johanna M. Graham, BSc, MacIntosh Hall, Mrs. Christian J. Tudhope, LLB *Edin.*, MA; Abbotsford House, Kathleen M. MacIver, MA *Oxon.*, PhD *Edin.* *Dundee*: Antie Hall, H. S. N. McFarland, MA *Aberd.*, BEd *Edin.*; West Park Hall, Miss Rhona Morrison, MA *Glas.*

WARDEN TO NON-RESIDENT STUDENTS. *St. Andrews*: Mrs. Mary Y. Cumming, MA (also Lodgings Officer). *Dundee*: Miss A. D. Wilcock.

CHAPLAINS. *St. Salvator's & St. Mary's Colls.*: Rev. R. D. Speirs, MA *Oxon.*, BD *Glas.*, STM *Yale*. *Queen's Coll., Dundee*: Rev. S. R. Mackintosh, BA *Oxon.*, BD *Edin.*

## GENERAL INFORMATION

The univ., founded in 1411, is the oldest in Scotland. St. Salvator's Coll. was founded in 1450 and St. Leonard's Coll. in 1512. The 3rd St. Andrews coll., St. Mary's, founded in 1537, has, since 1579, been restricted to the teaching of theol. In 1747 the colls. of St. Salvator and St. Leonard were amalgamated to form the United Coll. of St. Salvator and St. Leonard, now generally known as St. Salvator's Coll. University Coll., Dundee, founded in 1881, was in 1897

affiliated to the Univ. of St. Andrews, and at the same time the conjoint medical sch. was established in Dundee. Under the Univ. of St. Andrews Act, 1953, Univ. Coll., Dundee, and the conjoint med. sch. were merged into a new coll. of the univ. subsequently named Queen's Coll.

CONSTITUTION. Under the Univ. of St. Andrews Act, 1953, the univ. comprises 3 colls. being unincorporated societies of teachers and

students. The univ. court is a body corporate with perpetual succession and a common seal, and all the property belonging to the univ. is vested in the univ. court. The above act also set up the council of the United Coll. of St. Salvator and St. Leonard and St. Mary's Coll., and the council of Queen's Coll., and empowers the univ. court to delegate various functions to these councils.

The *senatus academicus* is responsible for the general supervision of teaching and discipline. The chancellor, who is elected by the general council and holds office for life, is empowered to appoint a vice-chancellor who may in his absence discharge his office in so far as regards conferring degrees but in no other respect. By a convention uniformly observed since 1858 the principal of the univ. is apptd. vice-chancellor. The rector, who is elected by the matriculated students of the univ. and holds office for 3 yrs., is the ordinary president of the univ. court; he also presides over the general council in the absence of the chancellor.

**INCOME** (1958-59). Total income, £1,049,464 (endowments, 2·66 per cent.; donations, 0·26 per cent.; govt. grants, 78·74 per cent.; fees, 11·12 per cent.; services, 3·56 per cent.; sundries, 3·66 per cent.).

**LIBRARY.** Approx. 610,000 printed vols. (some of 15th and 16th cents.). MSS. incl. fine Persian specimens and large folio antiphonarium. Coll. library at Dundee.

**MUSEUMS** at St. Andrews—anat., anthropol., ethmol., geol., mineral, nat. hist.; at Dundee—geol., med., nat. hist. **LABORATORIES** at St. Andrews—in all above depts. except med., also chem. (with sp. res. lab.), marine, phys., astron. (observatory), physiol., bot. garden. At Dundee—anat., bacteriol., chem., embryol., engin. (electr., hydraulic, mech.), mat. med., maths., nat. hist., pathol., phys., physiol.

**TEACHING HOSPITALS.** Dundee—Royal Infirmary, Maryfield H., King's Cross Infectious Diseases H., Royal Mental H., Ashludie H., Gowrie House; Perth—Royal Infirmary, Bridge of Earn H., Brechin—Stracathro H.

**FACULTIES AND DEANS.** *Appl. sci.*, Prof. E. G. Cullwick (electr. engin.); *arts*, Prof. K. J. Dover (Greek); *div.*, Prof. N. H. G. Robinson; *law*, Prof. A. J. McDonald (conveyancing); *med.*, Prof. R. B. Hunter (pharmacol. & therapeutics); *sci.*, Prof. . . . .; *soc. sci.*, Prof. A. D. Campbell (appl. econ.).

**ADMISSION.** See Appendix II.

**FIRST DEGREES.** MA ord., MA ord. in soc. sci., BSc ord., BSc ord. in engin., BL, 3 yrs.; MA hons., MA hons. in soc. sci., BSc hons., BSc hons. in engin., 4 yrs.; BDS, 5 yrs.; MB ChB, 6 yrs.

Courses for graduation in arts and sci. are given both in St. Salvator's Coll., St. And., and in Queen's Coll., Dundee, some being given in both places, some (Greek, Hebrew, Latin, Spanish, music) only in St. And., some (engineering) only in Dundee; med., after the first 2 yrs. and 2

terms, and dent., solely in Dundee, where facilities for clin. instructn. are available. In Dundee also are provided courses for graduation in law (LLB and BL) and in soc. sci.

The MA ord. degree course (3 yrs.) includes a gen. and a sp. exam. The former, which must be completed before proceeding to the sp., comprises 5 subjs. which must incl. (a) logic or moral philos.; (b) Latin or Greek or Hebrew or maths. and a lang. other than Engl., or 2 mod. foreign langs. In the sp. exam. 2 cognate subjs. must be taken, the whole exam. being passed at one time. The curriculum for the MA hons. degree extends over 4 yrs. and involves first passing the gen. exam. as a whole (candidates for hons. normally include in the general exam. the 2 subjs. which they propose to take to hons. standard), except that candidates offering an hons. group in langs. or hist. or maths. and sci. are not required to pass more than 4 subjs. in the gen. exam. The final hons. exam. is taken at the end of the 4th yr. Hons. may be taken in any of the following groups: Engl. lang. & lit.; French lang. & lit.; German lang. & lit.; mediæv. & mod. hist.; Engl. with French or German or Greek or logic & metaphysics or mediæv. hist. or mod. hist. or moral philos. or Spanish; French with Arabic or German or Spanish; German with Spanish; Spanish with Arabic; Semitic langs. with Arabic or Hebrew; Latin with Greek; Greek with Hebrew or logic & metaphysics or moral philos.; Hebrew with Arabic; logic & metaphysics with maths. or moral philos. or nat. philos. or pol. econ. or econ. or psychol. or mod. soc. & econ. hist. or pol. sci.; mediæv. hist. with geog. or moral philos. or pol. econ.; mod. hist. with geog. or moral philos. or pol. econ.; psychol. with moral philos. or econ.; geog. with pol. econ. or econ. or pol. sci.; pol. econ. with moral philos.; maths. with appl. maths. or astron. or chem. or nat. philos. or pol. econ. or econ.; nat. philos. with appl. maths.; econ. with appl. econ. or mod. soc. & econ. hist. or moral philos. or pol. sci.; pol. sci. with moral philos.; mod. soc. & econ. hist. with moral philos. or pol. sci. or geog.

The MA(SocSci) ord. degree course (3 yrs.) includes an exam. divided into 3 pts. Pt. I is based on an inter-deptl. course, taking the whole of the 1st yr. and incl. hist., pol. sci., econ., geog., philos., psychol. Pt. II comprises 3 subjs.: (i) econ., (ii) philos., (iii) one from a list incl. law and lang. as well as soc. sci. subjs. In pt. III of the exam., 2 soc. sci. subjs. are taken at an advanced level, the whole exam. being passed at one time. The curriculum for the MA(SocSci) hons. degree (4 yrs.) involves passing pt. I of the exam. for the ord. degree. The hons. exam. is taken at the end of the 4th yr. Hons. may be taken in (a) econ., (b) geog., or (c) any of the following groups: econ. & maths.; psychol. & maths.; any 2 of econ., geog., mod. soc. & econ. hist., philos., pol. sci., psychol.

The BSc ord. degree in pure sci. is a 3-yr. course embracing 7 subjs. with a 1st exam. (at least 4 subjs.) and a 2nd (at least 2 subjs.). The



hons. degree in pure sci. is a 4-yr. course. After the 1st yr. there is a 1st exam. in 3 subjs. and after the 2nd yr. a 2nd exam. in 2 subjs. The last 2 yrs. are devoted to advanced study in a single hons. subj. or approved group of 2 hons. subjs., followed by an hons. exam. Hons. may be taken in any 1 of anat., appl. maths., astron., biochem., bot., chem., geol., maths., pathol., pharm., phys., physiol., zool., or in 1 of the following groups: phys. with theoret. phys., maths. or appl. maths. with astron. Hons. candidates may make applicn. for exemption from 3 subjs. and for permission to take the 1st exam. in these subjs. before 1st matric.

The BSc ord. degree in appl. sci. is a 3-yr. course and the hons. degree a 4-yr. course. Both degrees can be taken in civil, electr. or mech. engin. or in electronic phys. Hons. candidates may make applicn. for permission to take the 1st exam. before 1st matric., and if they then pass in all 4 subjs. or in all subjs. less engin. drawing they may then obtain the hons. degree in 3 yrs.

**HIGHER DEGREES.** EdB, 2 yrs. after 1st degree; BD, 3 yrs. after arts degree or other recog. degree or dipl.; LLB, 3 yrs. after arts degree.

DLitt, 5 yrs. after MA hons., BPhil, BLitt, BSc hons. or EdB; BPhil, by dissertation, 1 yr. after previous degree in arts or div.; BLitt by exam., either conjointly with or after MA hons. degree; MSc, by thesis at least 4 terms after 1st degree; DSc, 7 yrs. (5 yrs. in appl. sci.) after 1st degree; MD or ChM, 1 yr. after MB ChB, candidate must be at least 24; MDS, 2 yrs. after 1st dent. degree by exam. and thesis; DDSc, 5 yrs. after 1st dent. qualif., which may be LDS if candidate also holds degree in fac. of med. or sci. of a British or approved overseas univ. and is a member of teaching staff; PhD, normally 3 yrs. after 1st degree which, in exceptional cases, may be reduced to 2 yrs.; LLD, 7 yrs. after graduation. The LLD may also be awarded as an honorary degree. The DD is honorary only.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Educn., for grads. who complete 1st yr. of the EdB course; soc. admin., for grads., at least 1 yr.; DPH and DPD, 1-yr. courses which cannot be taken until 2 yrs. and 1 yr. respectively after attaining med. or dent. qualif.

**CERTIFICATE.** Soc. admin. (for non-grads.), 2 yrs.

**FEES.** *Annual fees* (incl. tuition and exam. fees and use of labs.): arts, soc. sci., div. and law, £35; sci. and appl. sci., £55; med., £60. Lab. deposits, and annual matric. fee (£2:12s.:6d.), payable in addn. Fees for higher degrees: BLitt, BPhil, each £15; MSc, PhD, DLitt, DSc, each £20; MD, ChM, MDS, DDSc, each £25. Annual students' union sub. (not compulsory), £1:10s. (men's union, St. Andrews, £2).

**ENTRANCE SCHOLARSHIPS.** Scholps. of £100 p.a. and bursaries of up to £60 p.a. available for award on results of competition held annually in March.

**EXTRA-MURAL CLASSES.** No extra-mural classes

conducted directly by the univ. but the univ. is represented on a cttee. which organizes such classes in counties of Fife, Perth, Kinross, Clackmannan and Angus and in city of Dundee.

**APPOINTMENTS BOARD.** The appts. bd. exists for the dual purpose of helping grads. to find suitable employment and advising students on careers open to them and the most suitable courses to follow with a view to entering particular employment. The bd. has offices at 81 North St., St. Andrews (tel.: 750), and 10 Park Pl., Dundee (tel.: 22778).

**RESIDENCE.** (For wardens, see 'Admin. and Other Staff', *above*.) For women: *St. Andrews* (fees: from £123 per session)—University Hall, 142 students (tel.: 729); MacIntosh Hall, 138 students (tel.: 894); Abbotsford House, 41 students (tel.: 1481). *Dundee* (fees: £121 to £134:10s. per session)—West Park Hall, 84 students (tel.: 67169). For men: *St. Andrews* (fees: £140 per session, except Deans Court for which rates are slightly higher)—St. Salvator's Hall, 132 students (tel.: 408); Deans Court, 16 res. students (tel.: 1185); St. Regulus Hall, 100 students (tel.: 356); Hepburn Hall, 29 students (tel.: 885); Hamilton Hall, 103 students (tel.: 1086). *Dundee*—Airlie Hall, 167 students (tel.: 24496) (fees: £135 to £144:15s. per session). In each case the charge for residence is exclusive of tuition fees.

**UNIVERSITY TRAINING CORPS.** (T.A.) Establd. 1908 as O.T.C.; reorganized 1948. Units: infantry, signals, med., intelligence, W.R.A.C. H.Q.: 16 Park Wynd, Dundee (tel.: 23571), St. Andrews—Units: Wyvern, St. Andrews (tel.: 1262). **UNIV. AIR SQUADRON.** Full course of trg., both flying and ground, conducted by fully qualified R.A.F. instrs. H.Q.: 83 North St., St. Andrews (tel.: 939). **ROYAL NAVAL VOLUNTEER RESERVE,** Tay division (H.M.S. *Cressy*, Dundee). Students carry out 3 wks. trg. at sea during vacation. Women students may enrol in the W.R.N.S., Tay division, R.N.V.R.

**STUDENT HEALTH SERVICE.** Med. officer in attendance at St. Andrews. At Dundee a student health officer provides minor and first-aid treatment. The service can be used without charge by all matriculated students. Compulsory chest X-ray for all entrant students. Consulting rooms: Kennedy Hall, St. Andrews, and 5 Airlie Tce., Dundee.

**ATHLETIC UNION.** The athletic union is a federal body for co-ordination of all student athletic activities. In both St. Andrews and Dundee there are extensive playing-fields laid out for all the major field sports, and also well-equipped gymnasia. There are dirs. of phys. trg. for men and women students both in St. Andrews and Dundee.

**STUDENTS' UNIONS.** In St. Andrews and Dundee, unions for both men and women students adjoin the coll. bldgs. In addition to usual club facilities, the unions provide lunches at low cost.

An **ALUMNUS ASSOCIATION** was founded in 1926.

Alumnus clubs exist in Aberdeen, Edinburgh, Glasgow, the Borders, Yorkshire, Manchester, Birmingham, London, Toronto, Rhodesia, Johannesburg, Malaya and Victoria. Information may be obtained from the sec., alumnus assocn., the University, St. Andrews.

PUBLICATIONS. *Calendar* (Oct.), £1; alumnus assocn.'s *Chronicle* (yrly.); students' representative council's *College Echoes*. Histories: *A Short History of the Univ. of St. Andrews*, by R. G. Cant (Oliver & Boyd, 1946); *The Coll. of St. Salvator*, by R. G. Cant (Oliver & Boyd, 1950).

## THE YEAR 1959

PRINCIPAL BENEFACTIONS. H. V. Bonar, £20,000 towards hall of Queen's Coll.; estate of Mrs. Sophie Berkeley Lowe, £19,000 for scholarships and bursaries.

MAJOR BUILDING DEVELOPMENTS. *Bldgs. completed*: isotopes lab. *Approaching completion*: extension to library.

NEW CHAIR. Theoret. phys.

RETIREMENTS. Emer. Prof. E. F. Freundlich (dir. of observatory); Winifred J. Smith (phys.); Elsie S. Steele (warden of residence); Christina H. Sutherland (zool.).

RESIGNATIONS. Prof. J. O. Urmison (philos.), apptd. fellow & tutor, Corpus Christi Coll., Oxford; E. W. Bradford (oral hyg.), apptd. to chair in dent. surg., Brist.; F. R. Brown (surg.); J. K. Burns (physiol.); A. W. Gillan (Scots law); J. A. Gillespie (surg.); A. H. Jarret (astron.); R. F. Mahler (therapeutics); Barbara M. Middlehurst (astron.); Diana Price (chem.); J. J. A. Reid (pub. health); E. Ullendorff (Hebrew), apptd. to chair of semitic langs., Manc.

DEATHS. J. Emmerson (clin. anæsth.); G. M. Fyfe (pub. health); D. Howat (educn.).

HONORARY DEGREES. *DD*—Rev. G. W. Anderson, prof. of old test. studies, Durh.; Rev. W. C. Bigwood, minister of St. George's, Edinburgh. *LLD*—B. Blanshard, prof. of phil., Yale; Lord Boothby of Buchan and Rattray Head, rector of the univ.; Sir M. Bowra, warden of Wadham Coll., Oxford; Lord Brabazon of Tara; Sir L. Brown, Jodrell prof. of physiol., Univ. Coll.,

London; D. R. Dow, emer. prof. of anat., St. And.; Rev. W. R. Forrester, emer. prof. of pract. theol. & Christian ethics, St. And.; Lord Radcliffe, Lord of Appeal in Ordinary.

## Statistics

### STUDENT NUMBERS, 1959-60

	<i>Full-Time</i>	<i>Part-Time</i>
Men	1660	90
Women	831	19
Total	2491	109

Distribution by Faculties. *Appl. sci.*, 181; *arts*, 971; *div.*, 45; *law*, 91; *med.*, 559; *sci.*, 753. Total: 2600.

*Included in the figures above are* :—

Postgraduate students, 221.

New admissions (full-time graduating), 648.

Students from other countries, 236. (Countries from which largest numbers came: U.S.A., 50; Nigeria, 17; Kenya, 15; India, 14).

DEGREES AWARDED (1958-59). *Appl. sci.*: BSc, 28. *Arts*: DLitt, 1; PhD, 2; BPhil, 1; EdB, 1; MA, 180. *Dent.*: BDS, 9. *Div.*: PhD, 4; BD, 3. *Law*: LLB, 3; BL, 3. *Med.*: PhD, 2; ChM, 3; MD, 5; MB ChB, 60. *Sci.*: DSc, 1; PhD, 17; BSc, 120. Hons. granted subsequent to graduation: *appl. sci.*, 7; *arts*, 6; *sci.*, 35. Total number of first degrees awarded, 400.

DIPLOMAS AWARDED (1958-59). DipEd, 22; DPH, 8; DPD, 5.

# NORTHERN IRELAND

[Information compiled as at 30.7.60]

## QUEEN'S UNIVERSITY OF BELFAST\*

Founded as Queen's College 1845 ; established by Charter 1908

Postal Address : Belfast 7, Northern Ireland

Telegrams and Cables : University, Belfast, Northern Ireland

Telephone : Belfast 30111

VISITOR—H.M. THE QUEEN

CHANCELLOR—Field-Marshal THE VISCOUNT ALANBROOKE, KG, GCB, OM, GCVO, DSO, LL.D

PRO-CHANCELLORS—The Rt. Hon. LORD MACDERMOTT OF BELMONT, MC, LL.D *Edin. & Belf.*, Lord  
Chief Justice of N. Ireland ; Sir FRANK P. MONTGOMERY, MC, DMRE *Camb.*, MB, FFR

PRESIDENT AND VICE-CHANCELLOR—M. GRANT, CBE, MA *LittD Camb.*, FSA

REGISTRAR—Professor T. A. SINCLAIR, MA *Camb.*, DLitt *N.U.I.*

HONORARY TREASURER—W. R. KNOX, FCA

LIBRARIAN—.....

SECRETARY—G. R. COWIE, MA LLB *Aberd.*

BURSAR—G. D. BURLAND, BA BComm *Dub.*

CHAIRMAN OF CONVOCATION—Professor M. J. BOYD, MA *Oxon.*, BA

## TEACHING STAFF

[† = Part-Time]

**Accounting**, see Econ.

**Agriculture**, see below

### Anatomy

Pritchard, J. J., BSc *Adel.*, MA BCh  
DM *Oxon.* Prof.

Morton, W. R. M., MA *Camb.*, BSc MD  
(Embryol.) Reader

Scott, J. H., BSc MD DSc LDS  
(Anat. for Dental Students) Reader

Harrison, T. J., MD PhD Lectr.

Vincent, S. A., MB, FRCS † Lectr.

Bridges, J. B., BSc MD Lectr.

2 Tutors, 1 Demr.†

### Ancient History

Atkinson, Mrs. Kathleen M. T., MA *Oxon.*,  
FSA Reader

Astin, A. E., MA *Oxon.* Lectr.

### Archæology

Jope, E. M., MA BSc *Oxon.*, FSA Reader

2 Asst. Lectrs., 1 Res. Asst.

### Biochemistry

Harrison, D. C., DSc *Lond.*, PhD *Camb.*

J. C. White Prof.  
Malpress, F. H., MA *Oxon.*, PhD *R'dg.* Reader  
Leslie, I., BSc *Aberd.*, PhD *Glas.*

J. C. White Reader  
Elmore, D. T., BSc PhD *Lond.* Lectr.  
1 Asst. Lectr., 2 Res. Assts.

### Botany

Carr, D. J., PhD *Manc.*, MSc *Melb.* Prof.

Parker, R. E., BSc *Wales* Lectr.

Smith, A. G., BSc *Sheff.*, PhD *Camb.* Lectr.

Pate, J. S., BSc PhD Lectr.

Gunning, B. E. S., MSc Temp. Lectr.

Kertland, Mary P. H., MSc  
Curator of Herbarium

1 Asst. Lectr., 1 Res. Asst.

### Celtic

Wagner, H. H., DrPhil *Zür.* Prof.

Henry, P. L., BA MEconSc *N.U.I.*,  
PhD *Zür.* Lectr.

1 Asst. Lectr., 1 Res. Asst.

\* Member of the Association of Universities of the British Commonwealth

**Chemistry**

- Kemball, C., MA PhD *Camb.*, FRIC  
(Phys. & Inorg. C.) Prof.
- Henbest, H. B., PhD DSc *Lond.*, DIC,  
FRIC (Org. C.) Prof.
- Wilson, C. L., PhD *Glas.*, DSc, FRIC  
(Analyt. C.) Prof.
- Pink, R. C., DSc (Phys. C.) Reader
- Bacon, R. G. R., DIC, BSc PhD *Lond.*  
(Org. C.) Reader
- Mackie, H., DPhil *Oxon.*, MSc PhD  
(Phys. C.) Lectr.
- Pullin, A. D. E., BSc PhD *Lond.*  
(Phys. C.) Lectr.
- Magee, R. J., MSc PhD (Inorg. C.) Lectr.
- Grundon, M. F., MA DPhil *Oxon.*  
(Inorg. C.) Lectr.
- Lewis, F. A., BSc PhD (Inorg. C.) Lectr.
- Heal, H. G., BSc PhD *Lond.* (Inorg. C.) Lectr.
- Roberts, M. W., BSc PhD *Wales*  
(Phys. C.) Lectr.
- Stirling, C. J. M., BSc *St.And.*, PhD *Lond.*  
(Org. C.) Lectr.
- Nelson, S. M., DPhil *Oxon.*, MSc PhD  
(Inorg. C.) Lectr.
- Galwey, A. K., BSc PhD *Lond.* (Phys. C.) Lectr.
- Flockart, B. D., MSc PhD (Phys. C.) Lectr.
- Woodward, Ida, MA *Oxon.* Temp. Res. Lectr.
- Aurel, Mrs. Barbara J., PhD *Edin.*, BSc  
Supt. of Labs.
- 5 Asst. Lectrs., 4 Demrs., 1 Res. Asst.

**Classics: Greek**

- Sinclair, T. A., MA *Camb.*, DLitt *N.U.I.* Prof.
- Phillips, E. D., MA *Oxon.* Reader
- 1 Asst. Lectr.

**Classics: Latin**

- Boyd, M. J., MA *Oxon.*, BA Prof.
- Bower, E. W., MA *Oxon.* Lectr.
- Smallwood, Edith M., MA PhD *Camb.* Lectr.
- McGann, M. J., BLitt *Oxon.*, MA Lectr.

**Dentistry, see Medicine****Economic History**

- Connell, K. H., BSc(Econ) PhD *Lond.*,  
MA *Oxon.* Sr. Lectr.
- Hammersley, G. F., BA *Lond.* Lectr.

**Economics**

- Dennison, S. R., CBE, MA *Durh.*,  
BA *Camb.* (Econ.) Prof.
- ..... (Appl. E.) Prof.
- Cuthbert, N., MA BComSc (Stats.) Sr. Lectr.
- Black, R. D. C., MA BComm PhD *Dub.* Lectr.
- Black, W., BComSc PhD Lectr.
- Gibson, N. J., BSc(Econ) Lectr.
- Wright, A. L., BComm MA *Dub.* Lectr.
- Swann, D., BA PhD *Leeds* Lectr.
- Corley, T. A. B., MA *Oxon.* Lectr.
- Montgomery, J. K., BComSc, FCA  
(Accounting) †Lectr.
- 3 Asst. Lectrs., 1 Asst. Lectr.†, 1 Res. Asst.

**Education**

- Knox, H. M., MA BEd PhD *Edin.* Prof.
- Sutherland, Margaret B., MA EdB *Glas.*,  
PhD Sr. Lectr.
- Lewis, D. G., MSc *Wales*, BEd *Edin.* Lectr.
- Price, A. F., MA *Liv.*, PhD Lectr.

**Engineering, see Applied Science and Technology, below****English Language and Literature**

- Butter, P. H., MA *Oxon.* Prof.
- McDiarmid, M. P., MA *Glas.*,  
BLitt *Oxon.* Sr. Lectr.
- Braidwood, J., MA *Glas.* Sr. Lectr.
- Lerner, L. D., MA *Cape T.*, BA *Oxon.* Lectr.
- Stephens, R. C., MA *Oxon.*, PhD Lectr.
- Hill, Betty, MA *Birm.*, DPhil *Oxon.* Lectr.
- Salgado, R. G. N., BA PhD *Nott.* Lectr.
- 1 Temp. Lectr., 1 Asst. Lectr.

**French and Romance Philology**

- Bisson, L. A., MA DLitt *Oxon.*,  
DUBordeaux Prof.
- Godin, H. J. G., BA *Lond.*, LèsL *Lille*,  
MA PhD Sr. Lectr.
- Japolsky, L., MA BLitt *Oxon.* Lectr.
- Nurse, P. H., MA *Oxon.* Lectr.
- Thody, P. M. W., MA *Lond.* Lectr.
- Pugh, A. R., MA PhD *Camb.* Lectr.
- 2 Lectors

**French, Mediæval**

- Pelan, Margaret McL., DUStras.,  
MA PhD Reader
- Spence, N. C. W., BA *Leeds*, PhD *Lond.* Lectr.
- 1 Temp. Lectr.

**Geography**

- Evans, E. E., MA *Wales*, DSc Prof.
- Stephens, N., BSc *Brist.*, MSc Lectr.
- Ford, V. C. R., MA *Lond.* Lectr.
- Symons, L. J., BSc(Econ) *Lond.*, PhD Lectr.
- Buchanan, R. H., BA PhD Lectr.
- Mitchel, N. C., MA Lectr.
- Harris, Rosemary L., MA *Lond.* Lectr.
- ..... Lectr.
- 2 Asst. Lectrs., 1 Res. Asst.

**Geology**

- Williams, A., BSc PhD *Wales* Prof.
- Preston, J., BScTech BSc *Manc.*,  
PhD *Uppsala* Sr. Lectr.
- Schwarzacher, W., PhD *Innsbruck* Lectr.
- Reid, R. E. H., BSc *Lond.* Lectr.
- Tavener-Smith, R., MSc *Wales* Lectr.
- 2 Asst. Lectrs., 1 Res. Asst.

**German**

- Hinderks, H. E., MA *Hamburg*, DPhil *Basle* Prof.
- Finch, R. G., MA *Wales* Lectr.

Casey, T. J., MA <i>Dub.</i> , DrPhil <i>Bonn</i>	Lectr.	John, E. B., BA MMus <i>Wales</i> , FRCO	Lectr.
Hesse, W. G., DrPhil <i>Bres.</i> , MA <i>Cape T.</i>	Lectr.	Warren, R. H. C., MA MusB <i>Camb.</i>	Lectr.
Furst, Lillian R., MA PhD <i>Camb.</i>	Lectr.		
1 Lector			

**Histology**

Strangeways, Dorothy H., MA <i>Camb.</i> , PhD <i>Leeds</i>	Sr. Lectr.
--	------------

**History**, see also Anc. Hist.

Roberts, M., MA DPhil <i>Oxon.</i> , FBA	Prof.		
Beckett, J. C., MA	(Irish H.) Prof.		
Gray, J. W., MA <i>Oxon.</i>	Reader		
Graham, A. H., MA <i>Glas.</i>	Lectr.		
Crowder, C. M. D., MA DPhil <i>Oxon.</i>			
(Palæog. & Diplomatic)	Lectr.		
Clarke, Dorothy P., PhD <i>Lond.</i> , BA	Lectr.		
Warren, W. L., MA DPhil <i>Oxon.</i>	Lectr.		
1 Asst. Lectr., 1 Res. Asst.			

**History, Economic**, see Econ. Hist.**Jurisprudence**

Newark, F. H., CBE, BCL MA <i>Oxon.</i>	Prof.
---	-------

**Law**

Montrose, J. L., LLB <i>Lond.</i> , LLD <i>Dub.</i>	Prof.		
Delaney, V. T. H., LLD <i>Dub.</i>	Reader		
Williams, D. C., MA LLB <i>Camb.</i> , LLM <i>Calif.</i>	Lectr.		
Craig, J. T., MA LLB <i>Glas.</i> , BSc(Econ) <i>Lond.</i>	Lectr.		
Gow, J. J., BL PhD <i>Aberd.</i>	Lectr.		
Milner, A., LLB <i>Leeds</i> , LL.M <i>Yale</i>	Lectr.		
Conaghan, R. H., BA	†Lectr.		
Hutton, J. B., BA <i>Oxon.</i>	†Lectr.		
1 Asst. Lectr., 1 Tutor†			

**Mathematics, Applied**

Bates, D. R., DSc <i>Lond.</i> , MSc, FRS	Prof.		
Dalgarno, A., BSc PhD <i>Lond.</i>	Reader		
Moiseiwitsch, B. L., BSc PhD	Lectr.		
Jarrett, A. H., BSc <i>Leeds</i> , MSc <i>Manc.</i> , PhD <i>St.And.</i>	Lectr.		
McCarroll, R. W., BSc PhD	Lectr.		
Stewart, A. L., PhD <i>Lond.</i> , BSc	Lectr.		
3 Asst. Lectrs.			

**Mathematics, Pure**

Verblunsky, S., BA PhD <i>Camb.</i>	Prof.		
Cooper, R., MA PhD <i>Camb.</i>	Reader		
Henstock, R., MA <i>Camb.</i> , PhD <i>Lond.</i>	Sr. Lectr.		
Burgess, D. C. J., PhD MA <i>Camb.</i> , BSc	Lectr.		
.....	Lectr.		
.....	Lectr.		
2 Asst. Lectrs.			

**Medicine**, see below**Music**

Cranmer, P., MA BMus <i>Oxon.</i> , FRCO	
Hamilton Harty Prof.	

John, E. B., BA MMus <i>Wales</i> , FRCO	Lectr.
Warren, R. H. C., MA MusB <i>Camb.</i>	Lectr.

**Philosophy**

Gallie, W. B., MA BLitt <i>Oxon.</i>	Prof.
Faris, J. A., MA BLitt <i>Oxon.</i>	Sr. Lectr.
Milne, A. J. M., BSc(Econ) PhD <i>Lond.</i>	(Social P.) Lectr.
Herivel, J. W. J., MA <i>Camb.</i>	(Hist. of Philos. of Sci.) Lectr.
Greene, Mrs. Marjorie G., MA PhD <i>Harr.</i>	Lectr.
Roxbee Cox, J. W., BA BPhil <i>Oxon.</i>	Lectr.

**Philosophy, Scholastic**

Crowley, Rev. T., DPh LicScHist Maitre	
Agrégé en Philos <i>Louvain</i>	Reader
Daly, Very Rev. C. B., DD <i>Maynooth</i> , MA LPH	Lectr.

**Physics**

Emeleus, K. G., MA PhD <i>Camb.</i> , Hon. ScD <i>Dub.</i>	Prof.
Sloane, R. H., DSc, FIP	Reader
Watt, C. S., MSc PhD	Lectr.
Kerr, L. W., BSc PhD	Lectr.
Higginson, G. S., BA N.Staffs., PhD <i>Birm.</i>	Lectr.
Johnston, A. R., BSc PhD	Lectr.
6 Asst. Lectrs., 2 Demrs.	

**Physiology**

Greenfield, A. D. M., MB BS DSc <i>Lond.</i>	Dunville Prof
Loughridge, J. S., MD, FRCS	†Lectr
Roddie, I. C., BSc MD	Lectr
Clarke, E. W., BSc MB ChB <i>Birm.</i> , MA <i>Camb.</i>	Lectr
Love, A. H. G., BSc MB	Lectr
Glover, W. E., MB	Lectr
3 Tutors, 1 Res. Asst.	

**Political Science**

Warrender, J. H., MA <i>Oxon.</i>	• Prof.
O'Leary, C., MA N.U.I., DPhil <i>Oxon.</i>	Lectr.
2 Asst. Lectrs.	

**Psychology**

Seth, G., MA BEd PhD <i>Edin.</i> , FBPsS	Prof
McEwen, P., BSc <i>Edin.</i> , PhD	Lectr.
Beloff, J. R., BA <i>Lond.</i> , PhD	Lectr.
Rodger, R. S., MA <i>Edin.</i>	Lectr
McHugh, M. A., BA	Lectr
Stretch, R. G. A., BA <i>Nott.</i> , PhD <i>Sheff.</i>	Lectr
1 Asst. Lectr., 1 Res. Asst.	

**Social Studies**

Neill, D. G., MA <i>Dub.</i>	Sr. Lectr. & Dir.
Harrison, Enid M., MA DPSA BLitt <i>Oxon.</i>	Lectr.
White, J. R., BA DipSocStud	(Practical Work) Tutor

Binchv, Helen, BA DipSocStud *N.U.I.*,  
MSW *Flor.* (Practical Work) Asst. Tutor  
McIlreavy, F., BComSc †Tutor  
Gilmore, Mrs. Mary J., BA †Tutor  
MacMillan, Marion P. †Tutor

**Spanish**

Terry, A. H., BA *Camb.*  
Plumpton, Jill E., MA *St.And.*  
1 Asst. Lectr.†, 1 Lectr

Musgrave Prof.  
Sr. Lectr.  
Lectr.

**Technology**, see Applied Science and  
Technology, below

**Theology**, see below

**Zoology**

Gresson, R. A. R., DSc *Edin.*, PhD *St. And.* Prof.  
Williams, G., MSc *Liv.* Sr. Lectr.  
Gotto, R. V., MSc Lectr.  
Pantelouris, E. M., BSc *Lond.*, PhD *Edin.* Lectr.  
Threadgold, L. T., BA PhD *Dub.* Lectr.  
Scott, A., BSc PhD *Aberd.* Lectr.  
1 Asst. Lectr., 1 Museum Asst.†

**AGRICULTURE****Agricultural Botany**

Lanehan, P. A., DSc *N.U.I.*, MAgr Prof.  
Dales, Mrs. Helen, MA BSc *Edin.* Lectr.  
Lowe, J., MAgr Lectr.  
Stewart, R. H., BAgr Lectr.

**Agricultural Chemistry**

Houston, J., DSc Prof.  
Robinson, K. L., BSc BAgr Lectr.  
McConaghy, S., BSc MAgr Lectr.  
McAllister, J. S. V., DFC, DFM, BAgr Lectr.  
Brown, W. O., BSc MAgr PhD, FRIC Lectr.  
Raven, A. M., BSc PhD *Durh.* Lectr.  
Jordan, J. W., BAgr Asst. Lectr.  
1 Demr.

**Agricultural Economics**

McWhinney, J. L., BSc *N.U.I.* Asst. Lectr.

**Agricultural Zoology**

Chamberlain, R., DipAgric *Camb.*, BA Reader  
Willis, R. J., BSc Lectr.  
Edwards, A. R., BSc *Edin.* Asst. Lectr.

**Agriculture, Bacteriology of**

Clerkin, P., BSc BAgrSc *N.U.I.* Sr. Lectr.  
Murray, J. G., MAgr PhD Lectr.  
Patterson, J. T., DIC, BAgr Asst. Lectr.

**Comparative Pathology**

Lamont, H. G., OBE, DSc Prof.

**Crop and Animal Husbandry**

Morrison, J., BSc *Aberd.* Prof.  
Hale, R. W., BSc(Agr) *Lond.* Sr. Lectr.  
Coey, W. E., MA *Camb.*, MAgr PhD Lectr.

**Mycology and Plant Pathology**

Muskett, A. E., OBE, DSc *Lond.* Prof.  
Taylor, J. C., BSc BAgr Lectr.  
Calvert, E. L., MAgr Lectr.  
McCreary, C. W. R., MSc Asst. Lectr.  
Malone, J. P., BSc PhD Asst. Lectr.

**Plant Genetics and Plant Breeding**

Wilson, E. V. B., BSc Sr. Lectr.  
Wright, C. E., BSc BAgr PhD Lectr.  
Hodges, D. J., BAgr Asst. Lectr.  
Proudfoot, K. G., MAgr Asst. Lectr.

**Veterinary Science**

Kerr, W. R., BSc DVSM *Edin.*, PhD Reader  
Pearson, J. K. L., BSc PhD Lectr.  
Luke, D., BSc PhD Lectr.  
Gordon, W. A. M., BAgr Lectr.  
Gracey, J. F., BAgr PhD Lectr.

**APPLIED SCIENCE AND TECHNOLOGY****Engineering, Aeronautical**

Stephens, A. V., MA *Oxon.*, FRAeS Prof.  
Nonweiler, T. R. F., BSc *Manc.*, PhD Sr. Lectr.  
Horne, J. L., MSc *Brist.* Lectr.  
..... Lectr.  
1 Res. Asst.

**Engineering, Civil**

Naylor, A. H., BSc *Lond.*, MSc *Birm.*,  
MICE Prof.  
Finnan, E. J., MSc Sr. Lectr.  
Godden, W. G., MSc PhD Sr. Lectr.  
Sidwell, E. H., MSc Lectr.  
McDowell, D. M., BSc PhD (Hydraulics) Lectr.  
Stuart, J. G., BSc (Soil Mechanics) Lectr.  
Crone, D. R., CIE, OBE, MSc (Surveying) Lectr.  
Gurr, M., BSc(Eng) *Lond.* Lectr.  
Agnew, R., BSc PhD Temp. Lectr.  
3 Asst. Lectrs.

**Engineering, Electrical**

West, J. C., PhD DSc *Manc.* Prof.  
McIlhagger, D. S., MSc PhD, MIEE Lectr.  
Gillies, J. F., OBE, BE *N.U.I.*, BSc *Lond.*,  
PhD Lectr.  
Douce, J. L., MSc PhD *Manc.* Lectr.  
Leary, B. G., BE *N.S.W.U.T.* Lectr.  
Jayawant, B. V., BEng *Bom.*, PhD *Brist.* Lectr.  
Lectr.

2 Asst. Lectrs.

**Engineering, Light Electrical**

Allen, T. P., MSc, MIEE Prof.  
McBride, J. M. W., BSc Lectr.

Clarricoats, P. J. B., BSc(Eng) PhD  
 Ryan, W. D., PhD MSc  
 2 Res. Assts.

Lectr.  
 Lectr.

### Engineering Mathematics

Dennis, S. C. R., BSc PhD *Lond.*  
 Mercer, A. M., BSc PhD  
 Dunwoody, N. T., BA PhD  
 Gallagher, A. P., MSc  
 1 Asst. Lectr.

Sr. Lectr.  
 Lectr.  
 Lectr.  
 Temp. Lectr.

### Engineering, Mechanical

Crossland, B., BSc *Lond.*, PhD *Brist.*  
 Gilchrist, J. M., MSc  
 Kerr, W. F. K., BSc PhD

Prof.  
 Lectr.  
 Lectr.  
 Lectr.

### Mathematics, Pure

Griffith, L., BSc *Lond.*, MA  
 Davies, A. L., MA *Sheff.*  
 O'Neill, F. R., BA  
 Scott, S. A., MA

Lectr.  
 Lectr.  
 Recog. T.  
 Recog. T.

### Mechanical Engineering

Goligher, T. E., DIC, BSc  
 Hewitt, W. P., BSc  
 Sloan, J., MSc  
 Beck, A., BSc

Lectr.  
 Recog. T.  
 Recog. T.  
 Recog. T.

### Microbiology

Heatley, Mrs. Patricia, BA

Recog. T.

### Pharmacy, Pharmaceutics and Pharmacognosy

Henbest, Rosalind E. S., MB BS *Lond.*

Recog. T.

### Physics

White, O. M., BSc PhD  
 Crowley, T. A., BSc *Lond.*, PhD  
 France, R. W., MSc PhD *Sheff.*

Lectr.  
 Lectr.  
 Recog. T.

### Physiology

Bull, Mrs. Megan P., MB ChB *Cape T.*

Temp. Recog. T.

### Textile Chemistry

Riordan, J. E., BSc

Recog. T.

### Textiles

Dorman, H. J., MSc  
 White, O. M., BSc PhD

Lectr.

(Textile Testing) Lectr

Pringle, A. V.

Recog. T.

### Workshop Practice

McClenaghan, T.

Recog. T.

### Zoology

Rosborough, T. U., BSc

Recog. T.

### ARTS

Extra-Mural staff (Recognized Teachers) at  
 Magee University College, Londonderry :—

### Economics

Garmany, J. W., MA BLitt *Oxon.*  
 Brunswick, J. R. F., BCom *Lond.*

Recog. T.  
 Recog. T.

### English Literature

Rhodes, E., MA *Lond.*

Recog. T.

### French

Piper, Marion V., BA *Nott.*

Recog. T.

### Geography

McCourt, D., MA PhD

Recog. T.

Extra-Mural staff (hon.), being Profs., Lectrs. and  
 Recognized Teachers (Recog. T.) at Municipi-  
 pal Coll. of Technol. :—

### Aeronautical Engineering

Frost, R. J., BSc(Eng) *Lond.*

Recog. T.

### Architecture, Naval

Cameron, R. R. G., BSc

Recog. T.

### Botany

McCourt, G. H., MSc

Recog. T.

### Chemical Technology

Hamer, D., BSc PhD *Leeds*, FRIC

Lectr.

### Chemistry

Barry, Ruth J. W., MSc  
 Tyrrell, E., MSc *Manc.*  
 Blair, H. S., MSc  
 Wilson, C., BSc  
 Gilmour, A., MSc PhD

Recog. T.  
 Recog. T.  
 Recog. T.  
 Recog. T.  
 Recog. T.

### Electrical Engineering

Fitton, J., BSc *Manc.*, MSc  
 Bromley, A. A., MSc  
 MacNeill, N. J., MSc  
 Girvan, S. B., MSc  
 Noblett, D. H., BSc  
 Monro, S. L., BSc  
 Webb, J., BSc PhD

Recog. T.  
 Recog. T.  
 Recog. T.  
 Recog. T.  
 Recog. T.  
 Recog. T.  
 Recog. T.

### Engines, Heat, and Practice of Machine Design and Construction

Craig, F. V.  
 Newel, D. G., BSc  
 Harvey, G. R.  
 Jennings, R.  
 Hosford, D. F., BSc

Recog. T.  
 Recog. T.  
 Recog. T.  
 Recog. T.  
 Recog. T.

### Mathematics, Applied

O'Neill, F. R., BA

Recog. T.

**German**

Edwards, O. H., DrPhil *Bonn*, MA      Recog. T.  
Woodland, T. W., BA      Recog. T.

**Greek and Latin**

Lejèvre, F. J., MA *Camb.*      Recog. T.  
Ussher, R. G., MA *Dub.*      Recog. T.

**History**

McCracken, J. L., MA PhD      Recog. T.  
Brown, J., MA *Dub.*      Recog. T.

**Logic and Philosophy**

Nicholl, H. F., MA *Dub.*      Recog. T.

**Mathematics, Pure and Applied**

Guthrie, W. G., MA *Edin.*, PhD *St. And.*      Recog. T.

**ECONOMICS**

Extra-Mural staff at Municipal Coll. of  
Technol. :—

**Mathematics, Pure**

Griffith, L., BSc *Lond.*, MA      Lectr.  
Davies, A. L., MA *Sheff.*      Lectr.  
O'Neill, F. R., BA      Recog. T.  
Scott, S. A., MA      Recog. T.

**MEDICINE**

(for subjects of first 2 yrs.—Anat., etc.,  
see above)

**Anæsthetics**

Dundee, J. W., PhD *Liv.*, MD, FFARCS      Sr. Lectr.  
1 Sr. Tutor

**Bacteriology, see Microbiol.****Child Health**

Allen, F. M. B., MD, FRCP      Nuffield Prof.  
Carré, I. J., MA MB BChir *Camb.*,  
MRCP      Lectr.  
1 Sr. Tutor, 2 Tutors, 3 Jr. Tutors

**Dentistry**

Stoy, P. J., BDS *Birm.*, FDSRCS      Prof.  
Adams, C. P., BDS, FDSRCS (Orthod.)      Lectr.  
Smith, R. J., BDS *Birm.*      (Oper. D. Surg.) Lectr.  
..... (Properties of D. Materials) Lectr.  
Saunsbury, P., MSc *Manc.*      (Prosth. & Mech.) Lectr.  
Alldritt, W. A. S., BDS, FDSRCS      Lectr.  
Brown, W. A. B., MS *Ill.*      (Orthod.) Lectr.  
Eccles, J. D., LDS, FDSRCS      (Oper. D. Surg.) Lectr.  
Stewart, D. J., BDS, FDSRCS      (Child & Prev. D.) Lectr.  
Porter, D. C., MD      (D. Radiol.) †Lectr.  
Brown, W. M., MD DPH      (Anæsth.) †Lectr.

Megaw, J. McL., MB, FRCSEd  
(Surg. for D. Students) †Lectr.  
Strain, R. W. M., BSc MD PhD, FRCPI  
(Med. for D. Students) †Lectr.  
Cullen, P. M.      (D. Mat. Med.) †Lectr.  
4 Tutors

**Dermatology**

McCaw, I. H., MD      †Lectr.

**Infectious Diseases**

Kane, F. F., MD DPH, FRCPI      †Lectr.

**Materia Medica and Therapeutics**

Cronhelm, H. J., MD, MRCPi      †Lectr.

**Medicine**

Bull, G. M., MD *Cape T.*, FRCP      Prof.  
Womersley, R. A., MA MB *Camb.*,  
MRCP      Sr. Lectr.  
4 Clin. Lectrs.†, 7 Jr. Tutors

**Medicine, Forensic**

Marshall, T. K., MB ChB *Leeds*      †Lectr.  
Smiley, J. A., OBE, MD      (Toxicol.) †Lectr.

**Medicine, Social and Preventive**

Pemberton, J., MD *Lond.*, DPH *Leeds*      Prof.  
Cheeseman, E. A., BSc(Econ) PhD *Lond.*  
(Med. Stats.) Reader  
Carey, G. C. R., DPH *Lond.*, BSc MB  
(Prev. Med.) Lectr.  
Froggatt, P., MA MD *Dub.*, DPH  
(Soc. & Prev. Med.) Lectr.  
Kilpatrick, S. J., MSc      (Med. Stats.) Lectr.  
..... Lectr.  
2 Soc. Workers, 1 Tutor, 1 Asst. Lectr.†

**Mental Health**

Gibson, J. G., DPM *Lond.*, MD, MRCP      Prof.  
White, J. G., BA EdM *Harr.*  
(Clin. Psychol.) Lectr.†  
2 Sr. Tutors

**Microbiology**

Dick, G. W. A., MD DSc *Edin.*,  
MPH *Johns H.*, FRCPed, MRCP      Prof.  
Bartley, Eileen O., MD DPH      Lectr.  
Dane, D. S., BA MB BChir *Camb.*      Lectr.  
Mackenzie, D. W. R., BSc PhD *Edin.*      Lectr.  
2 Tutors, 1 Asst. Lectr.

**Midwifery and Gynæcology**

Macafee, C. H. G., CBE, MB, FRCS,  
FRCSI, FRCOG      Prof.  
Millar, W. G., MB *Glas.*, FRCS,  
FRFPGlas      Lectr.  
Boyd, G., MB, FRCSEd      †Lectr.  
4 Clin. Lectrs.†, 1 Sr. Tutor, 1 Tutor,  
3 Jr. Tutors



**Neurology**

Allison, R. S., MD, FRCP †Lectr.

**Ophthalmology**Wheeler, J. R., MB, FRCSEd †Lectr.  
4 Clin. Lectrs.†**Orthopaedic Surgery**

Withers, R. J. W., MD MCh, FRCSEd †Lectr.

**Otorhinolaryngology**

MacLaughlin, F. A., MB, FRCS †Lectr.

**Pathology**Biggart, J. H., CBE, DSc MD, FRCP  
Musgrave Prof., Dir., Inst. of Pathol.  
McKeown, Elizabeth F., MD  
(Morbid Anat.) Reader  
Gibson, J. B., MD *Edin.*, MRCPed Lectr.  
..... Lectr.  
4 Tutors**Pharmacology, see Therapeutics****Public Health (Administration)**Swann, W. G., BSc *Lond.*, MD DPH †Lectr.**Radiology**

Shepherd, W. H. T., MD †Lectr.

**Surgery**Rodgers, H. W., OBE, MB *Lond.*, FRCS Prof.  
Welbourn, R. B., MA MD BChir *Camb.*,  
FRCS (Surg. Sci.) Prof.  
4 Clin. Lectrs.†, 3 Sr. Tutors, 2 Jr. Tutors**Surgery, Operative, and Applied Anatomy**

Lavery, M. B., MB MSc, FRCS †Lectr.

**Therapeutics and Pharmacology**Wade, O. L., MA MD *Camb.*, MRCP Prof.  
Elmes, P. C., BSc BM BCh MA *Oxon.*,  
MD *W. Reserve*, MRCP Lectr.  
3 Tutors**Tuberculosis**

†Lectr.

**THEOLOGY**(i) Extra-Mural staff (hon.), being Recognized  
Teachers of the Assembly's Coll. of the  
Presbyterian Coll. in Ireland :—**Ecclesiastical History and Symbolics**Barkley, Rev. Prof. J. M., MA DD PhD *Dub.*,  
MA Recog. T.**Hebrew and Old Testament Theology**Wilson, Rev. R. J., MA *N.U.I.*, BD *Lond.*  
Recog. T.**Hebrew, Biblical Theology, Hellenistic  
and New Testament Greek**Davey, Very Rev. J. E., MA *Camb.*,  
DD *St. And. & Edin.* Recog. T.**Philosophy of Religion, History of Christian  
Doctrine, Christian Ethics, Symbolics**Haire, Rev. J. L. M., MA *Oxon.*, BD  
MTh *Lond.* Recog. T.(ii) Extra-Mural staff, being Recognized Teachers  
of Edgehill Theological Coll. :—**Hebrew and Old Testament**Greenwood, Rev. R., BA BD *Dub.* Recog. T.**New Testament, Hellenistic and New  
Testament Greek**

Ker, Rev. R. E., MA Recog. T.

**EXTRA-MURAL STUDIES AND ADULT  
EDUCATION**Semple, R. H., MA *Camb.*  
Reader, Dir. of Extra-Mural Studies  
Arnold, D. M., BMus MA *Sheff.* Reader  
Whitford, F. J., BA *Dub.*,  
BSc(Econ) *Lond.* Lectr.  
Frey, J., BA Lectr.  
Lawrence, R. J., BSc(Econ) *Lond.* Lectr.  
Mahood, G. H., MA Lectr.  
Ley, H., PhD *Basle*, BA *Lond.* Lectr.**ADMINISTRATIVE AND OTHER STAFF**Academic Council, Sec. : Prof. F. H. Newark,  
CBE, BCL MA *Oxon.* Asst. Sec. : R. Cooper,  
MA PhD *Camb.* Sec. of Matric. Cttee. : N.  
Stephens, MSc. Sr. Asst. Sec., Clerk of Ad-  
missions, Careers & Appts. Officer, Clerk of  
Convocation : J. M. Freeland, BSc BComSc. Jr.  
Asst. Secs. : A. M. M. Steven, MA LLB *Aberd.*,  
R. G. Topping, MA *Dub.* Jr. Asst. Sec. & Clerk  
of Exams. : D. G. Andrews, BSc(Econ). Asst.  
Bursar : R. J. Brown, LLB. Dep. Librarian :  
Alice K. Megaw, BA, FLA. Sub-Librarian :Jessie B. Webster, MA ; Asst. Librarians : Frieda  
Brown, BA, H. J. Heaney, BA, W. D. Linton,  
BLS *McG.*, BSc, W. G. Wheeler, MA *Dub.*, Mrs.  
Marion G. Kelly, BSc(Econ). Med. Officer in  
Charge of Students' Health : W. Johnston, MD.  
Asst. Med. Officer : D. S. McLean, MB. Bldgs.  
Officer : A. Forrester. Dir. of Phys. Educn.  
Centre : A. McDonald, MA DPE. Manageress  
of Dining Halls : Catherine E. H. Bruce.  
Organist : Prof. P. Cranmer, MA BMus *Oxon.*,  
FRCO.

## RECOGNIZED COLLEGES AND TEACHERS

EDGEHILL THEOLOGICAL COLLEGE, Lennoxvale, Belfast (tel.: Belfast 6677111). (Methodist). Principal—Rev. R. E. Ker, MA. The Coll. is recognized for courses leading to BD. *See also* p. 1288.

MAGEE UNIVERSITY COLLEGE, Londonderry (tel.: Londonderry 2145). President—W. G. Guthrie, MA *Edin.*, PhD *St. And.* The Coll. is recognized for first courses, not exceeding 3, in certain subjects leading to BA. *See also* p. 1286.

MUNICIPAL COLLEGE OF TECHNOLOGY, College Sq., Belfast (telegraphic & cable address: Technical College, Belfast; tel.: Belfast 23896). Principal—D. H. Alexander, OBE, MSc *Camb.*

The complete course for the BSc in textile technol., naval archit., pharmaceuticals and chem. technol. may be taken at this coll. Dean, fac. of appl. sci. & technol.: Prof. T. P. Allen. *See also* pp. 1286, 1287.

PRESBYTERIAN COLLEGE (ASSEMBLY'S COLLEGE), Botanic Ave., Belfast (telegraphic & cable address: Assembly's College, Belfast; tel.: Belfast 24761). (Presbyterian). Principal—Very Rev. J. E. Davey, MA *Camb.*, DD *St. And. & Edin.* The complete course for the BD may be taken at this coll. Dean, fac. of theol.: Prof. T. A. Sinclair. *See also* p. 1288.

## GENERAL INFORMATION

Queen's College was establd. by royal charter in 1845, opened in 1849, and linked with colls. at Cork and Galway as the Queen's Univ. in Ireland in 1850. Originally there were three facs., arts (with sci. and lit. divisions), med. and law. In 1879, Queen's Coll. became a constituent coll. of the Royal Univ. of Ireland. The governing body was the purely academic coll. council. At the turn of the century private benefactions led to increased bldgs. and addtnl. staff. In 1908 the coll. became the Queen's Univ. of Belfast, the Royal Univ. of Ireland being dissolved in the following yr. The senate became the governing body, consisting of reps. of the public life of Ulster, of the profs. and of grads. The identification of the new univ. with the interests of Ulster became closer on the establt. in 1920 of the govt. of N. Ireland from which the univ.'s income is largely derived on the advice since 1945 of the Univ. Grants Cttee. Since Queen's Coll. became a univ. the following facs. have been added to the original 3: in 1910 sci. and econ.; in 1921 appl. sci. & technol. with the co-operation of the Belfast Coll. of Technol.; in 1924 agric., whose work is co-ordinated with that of the Ministry of Agric. for N. Ireland; and in 1926 the fac. of theol., most of the teaching for which is given in the Presbyterian Coll., Belfast, and in Edgehill Theol. Coll., Belfast.

CONSTITUTION. The authorities of the univ. are the chancellor, who is the titular chief officer; the pro-chancellors (of whom there may be 3); the pres. and vice-chancellor, who is the principal academic and admin. officer; the senate, which is the governing body; the academic council, which is the body of profs. and certain lectrs. responsible for internal academic affairs; the gen. bd. of studies, which considers courses of study and recognition of colls. and teachers; the facs.; and convocation, the statutory body of grads., which elects the chancellor and 8 members of senate and may consider any matter referred to it by senate.

FACULTIES AND DEANS. *Agric.*, Prof. H. G. Lamont (compar. pathol.); *appl. sci. & technol.*, Prof. T. P. Allen (light electr. engin.); *arts*, Prof. M. Roberts (hist.); *econ.*, Prof. S. R. Dennison (econ.); *law*, Prof. J. L. Montrose; *med.*, Prof. J. H. Biggart (pathol.); *sci.*, Prof. C. Kemball (chem.); *theol.*, Prof. T. A. Sinclair (Gk.).

LIBRARY. 225,000 vols.

INST. OF PATHOL., Grosvenor Rd., Belfast: pathol. and microbiol.; INST. OF CLIN. SCI. (med., surg., midwifery, therap., soc. med., child health), Grosvenor Rd.; geol. bldg., Elmwood Ave.; agric. bldg., Elmwood Ave.; David Keir bldg., Stranmillis Rd. (aeron. & civil engin.; org., phys. & inorg. chem.; bot. & zool.).

MUSEUMS. Classical archæol., nat. hist., med., mat. med.

LABORATORIES. Physiol. (Jaffé), biochem. (White), phys., anat., bot., geol., pharm., zool., agric.; marine biol. station, Portaferry.

HOSPITALS AVAILABLE FOR CLIN. TEACHING. General—Royal Victoria H., Mater Infirmorum, Belfast City H.; maternity—Belfast City (Jubilee); gynæcol.—Royal Victoria, Samaritan, Belfast City, Mater Infirmorum; child health & pædiatrics—Royal Belfast H. for Sick Children, Ulster II. for Children & Women; ophthalmol. & otolaryngol.—Royal Victoria, Mater Infirmorum, Belfast Ophthalmic, Benn H.; infectious diseases—N.I. Fever H.; mental diseases—Purdysburn H.; anæsthetics—Royal Victoria, Mater Infirmorum, Belfast City H.

ADMISSION. *See* Appendix II.

FIRST DEGREES. 3 yrs. pass and usually 4 yrs. hon.—BA, BSc, BSc in pharmaceuticals or textile technol., LLB, BSc(Econ), BMus; 4 yrs. pass & hon.—BAgr, BSc in aeron., civil, mech. or electr. engin. BA with hon. may be taken in classics, Latin with Gk., Engl. lang. & lit., geog., hist., mediæv. & mod. langs., mod. langs., French

or German or Spanish or Celtic lang. & lit., archaeol., maths., philos., scholastic philos., psychol., philos. & psychol., mediæval studies. The BMus and BEd (*see below*) are of hons. standard. BSc hons. in pure sci. may be taken in any subject of the fac.—maths., appl. maths., phys., chem., bot., zool., geog., geol., physiol., biochem., anat., pathol., archaeol., psychol. 6 yrs. (of which the first 2 may be in other approved univs. or med. schs.)—MB BCh BAO, BDS.

**HIGHER DEGREES.** 2 yrs. for grads. of this or other approved univ.—BD, BEd (incl. 1 yr. dipl. course). The MA may be taken by a BA 1 yr. after graduation (exam. or thesis or indep. res.); or grads. of other univs. 2 yrs. after graduation (res. and thesis). The (1) DLit, (2) LLD and (3) DMus are conferred on grads. of this univ. distinguished in (1) letters, or lit., philos. or hist. res., or (2) law, or legal or hist. res., or (3) musical composition; not less than 6 yrs. (1) and 5 yrs. (2) and (3) after primary degree. The DLit and LLD may also be obtained by thesis or publd. works; the DMus by composition. The LL.M. is open to LLBs of this or other univs. not less than 1 yr. after graduation (res. with exam. and dissertation). The MSc is open to a BSc of the univ. and grads. of other univs. holding a degree of similar rank not less than 1 yr. after graduation (thesis or indep. res. or exam. in fac. of appl. sci. in light electr. engin.). The DSc is open to grads. of this univ. 5 yrs. after graduation in any fac. It is conferred for res. or scientific work in reln. to sci., pure or appl., or for distinction in sci., engin. or other practical applicn. of sci. The MSc(Econ) is open to a BSc(Econ) of the univ., and to grads. of other univs. holding a degree of similar rank not less than 1 yr. after graduation (thesis or indep. res.). The DSc(Econ) is open to grads. of the univ. 5 yrs. after graduation in any fac. The MD, MCh and MAO are open to grads. of the univ. in med. of 3 yrs.' (if also grads. in arts or sci., 2 yrs.) standing by exam. or thesis. The MAg may be conferred on a BAg of the univ. or on grads. of other univs. who hold equivalent degrees after 2 yrs. (thesis or indep. res.). The DD is open to grads. in div. of the univ. of at least 6 yrs.' standing. PhD, open to grads. of this or other approved univ., not less than 2 yrs.

**HONORARY DEGREES.** Any doctor's or master's degree may be awarded as an honorary degree.

The univ. does not award **EXTERNAL DEGREES.**

**DIPLOMAS.** Educn. (for grads.), 1 yr. full-time or 3 yrs. pt.-time; pub. health (for grads. in med.), 1 yr.; soc. studies, 2 yrs.

**FEES.** *Inclusive composite annual fees* (covering tuition, exams. (but not re-exams.), graduation, hire of microscopes and premium for personal accident insurance). Arts (BA, BMus, BEd), £35 but £30 for 4th hons. yr.; I.L.B., £35 with £30 for 4th yr.; BSc (pure or appl. in engin.), £52 but £40 for 4th hons. yr. in pure sci.; BSc(Econ), £35 with £30 for 4th hons. yr.; MB BCh BAO,

£65 (incl. hosp. fees); BDS, £65 (incl. hosp. fees); BAg, £52 but £40 for 5th hons. yr.; dipl. in educn., dipl. in soc. studies, £35; res. students, £20. The above refer to full-time courses. Annual enrolment fee, £6 (incl. membership of union), except for pt.-time students, students in the fac. of theol. and students not studying for a degree for whom the fee is £3. Re-exam. fee, £2 per subject. Convocation fee on graduation, £1: 1s.

**ACADEMIC YEAR.** Oct. 1 to Sept. 30: 3 univ. terms of 13, 12 and 14 wks.; 3 lecture terms of 10, 10 and 6 wks.

**ENTRANCE SCHOLARSHIPS.** About 28 tenable for 3 or 4 yrs., aggregate value £1100 p.a.; 8 tenable for 1 yr. only, aggregate value about £300 p.a.

**POSTGRADUATE AWARDS** open to grads. of other univs.: *see p. 825.*

**RESIDENCE.** Queen's Elms, University Rd. (tel.: 20460), for men students, accomm. 73, residence £40 per term (warden: H. Mackle, DPhil Oxon., MSc PhD). Riddel Hall, Stranmillis Rd. (tel.: 666062), for women students, accomm. 50, bd. and residence about £90 p. (warden: May Dawson, BA). All students not living in halls or at home or with relations must live in registered lodgings. Lodgings officer: Mrs. Grace Magill, 25 Univ. Sq. Bd. and lodging obtainable in the city from about 55s. a wk. upwards. A list of lodgings is maintained.

There is a staff house at 10-11 University Sq. with residential club facilities.

**APPOINTMENTS COMMITTEE.** This cttee. advises students as to preparation for entrance to various govt. services and other appts. All communications to the sec., appts. cttee. (J. M. Freeland, BSc BComSc).

**ASSOCIATIONS.** Queen's Univ. Asscn. Secs., J. F. Gillies, BE N.U.I., BSc Lond., PhD, Coll. of Technology, Belfast; W. Johnston, MD, 25 University Sq., Belfast.

There is also a Queen's Univ. club which meets in London. Sec., N. J. Harpur, MSc PhD, 243 King's Rd., Harrow, Middlesex.

**RECOGNITION OF OTHER UNIVS.** Students from other approved univs. may apply for exemption from a yr.'s attendance for a first degree, attendance and exam. in some of the subjects for first degrees in arts and sci., in consideration of equivalent courses and exams. elsewhere.

**ADULT EDUCATION** (*see also* 'Teaching Staff', *above*). The Jt. Cttee. for Adult Educn. formed in 1931 of reps. of univ., W.E.A. (N.I.), Ministry of Educn. and local educn. authorities. Lectures, autumn and winter classes and residential courses provided through W.E.A. Financed by grants from univ., Ministry of Educn., local educn. authorities and War Office.

**UNIVERSITY EXTENSION** lectures by members of the univ. staff and other lecturers by invitation are given in Belfast and other towns.

**UNIVERSITY MILITARY FORMATIONS.** O.T.C. (T.A.). Founded 1908. O.C., Lt.-Col. H. J. Johnston, TD, LLB, Royal Ulster Rifles. Provides trg. in infantry, signals, med. and R.E.M.E. sections at the drill hall. Q.U.B.U.A.S., formed 1941. O.C., S/Ldr. L. L. Cumming. Lecture rooms, 18 College Gdns., Belfast. Flying instrcn.—4 Chipmunk aircraft at Sydenham airfield. Members enlist as officer cadets in R.A.F.V.R. The 3-yr. course leads to civil aviation 'A' cert. W.R.A.C. (T.A.): founded 1950; centre—48 University Rd., Belfast; now under command O.T.C. (T.A.).

**STUDENT HEALTH SERVICE.** All students are bound by regn. to submit to med. exam. by the univ. med. officer in charge of student health, 25 University Sq., Belfast. All med. and dent. students are required to be re-examined before commencing clin. studies. All students must undergo an annual chest X-ray. Mantoux-negatives are vaccinated with B.C.G. A nursing sister and nurse are available for routine treatment and dressings. The dir. of phys. educn. is a qualified physiotherapist and co-operates in remedial exercises.

**ATHLETIC FACILITIES.** 25 acres of playing-fields at Cherryvale, Belfast, provide pitches for rugby, assocn. and Gaelic football, hockey and cricket, tennis courts and grass athletic track. The phys. educn. centre, Sans Souci Park, Malone Rd.,

Belfast, provides for squash, badminton, table-tennis, net-ball, boxing, fencing, gymnastics, etc. The boat house at Lockview Road provides facilities for pairs, fours and eights. There is a dir. of phys. educn. and two assts. to the dir.

**STUDENTS' REPRESENTATIVE COUNCIL.** Establd. to promote the general interests of students and represent them in all matters affecting their interests, to afford a recog. means of communication between students and authorities of the univ., to promote social intercourse among students and to bring them into closer relns. with students of other univs.

**STUDENTS' UNION SOCIETY.** Founded 1897. Contains reading, writing, library, cttee. and billiard rooms. Extended in 1933 by a larger dining-hall and kitchens as the result of a gift from the Pilgrim trust. The centre of undergrad. club and soc. activities.

**WOMEN STUDENTS' HALL.** Houses adjacent to the univ. at 20-21 University Sq. provide reading, study and refreshment facilities for women.

**PUBLICATIONS.** *Calendar* (Oct.), £1; *On Becoming a Student*, for freshmen; students' paper, *The Gown* (fortnightly in term).

**PRINTER TO THE UNIVERSITY.** Marjory Boyd, MA, 2 Corporation St., Belfast, 1.

## THE YEAR 1959

**RESIGNATIONS.** I. T. A. C. Adamson (pure maths.); E. B. Armstrong (appl. maths.); Prof. R. G. Baskett (agric. chem.), apptd. dir., Inst. for Res. in Dairying; R. F. Daveney (extra-mural studies); J. C. Davies (French), apptd. to chair at N.E.; D. Lofts (soc. studies); P. Robson (econ.); H. Schneider (pure maths.).

**HONORARY DEGREES.** LLD—Sir Edward Hale, formerly sec., Univ. Grants Cttee.; Lt.-General Sir Brian Horrocks, Gentleman Usher of the Black Rod, House of Lords; Sir Robert Platt, pres., Royal Coll. of Physicians. DLit—Prof. J. Delargy, dir., Irish Folklore Commission; Prof. T. W. Moody, prof. of mod. hist., Dub. DSc—Prof. E. T. S. Walton, prof. of phys., Dub. DMus—H. Ferguson, composer. MA—Mrs. Janet D. Boyd, benefactress; R. McM. Sayers, editor, *Belfast Telegraph*; J. Warwick, principal, Coll. of Art, Belfast.

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	2297	511
Women . . .	704	58
<b>Total</b>	<b>3001</b>	<b>569</b>

**Distribution by Faculties.** *Agric.*, 82; *arts*, 951; *dent.*, 122; *econ.*, 370; *educn.*, 84; *law*, 94; *med.*, 492; *sci. (appl.)*, 646; *sci. (pure)*, 697; *theol.*, 32. Total: 3570.

*Included in the figures above are:—*

Postgraduate students, 274.

New admissions, 909.

Students from other countries, 321. (Countries from which largest numbers came: Nigeria, 52; Fed. of Malaya, 51; W. Indies Fed., 22; Ghana, 21).

**DEGREES AWARDED (1958-59).** *Agric.*: BAgr, 10. *Arts*: BA (gen.), 99; BA (hons.), 71; MA, 11. *Dent.*: BDS, 15. *Econ.*: BSc(Econ), 38. *Educn.*: BEd, 5. *Law*: LLB, 13. *Med.*: MB BCh, 60; MD, 10. *Sci. (appl.)*: BSc, 60; MSc, 8. *Sci. (pure)*: BSc, 78; MSc, 7; DSc, 2. *Theol.*: BD, 3. PhD (all facs.): 30. Total number of first degrees awarded, 444.

**DIPLOMAS AWARDED (1958-59).** DipEd, 33; DipSoc Studies, 10.

**CERTIFICATES AWARDED (1958-59).** *Sci. hons.*, 31; *econ. hons.*, 3.\*

\* A student who graduates with a pass degree may subsequently read for hons. and if successful will obtain a cert. of hons.



# WEST INDIES

University College of the West Indies (p. 1294)

# UNIVERSITY COLLEGE OF THE WEST INDIES\*

Founded 1946 ; incorporated by Royal Charter 1949

Postal Address : Mona, Kingston 7, Jamaica, The West Indies

Cables and Telegrams : University Jamaica

Telephone : P.B.X. 7661

VISITOR—H.M. THE QUEEN

CHANCELLOR—H.R.H. THE PRINCESS ALICE, COUNTESS OF ATHLONE, GCVO, GBE

PRINCIPAL—W. A. LEWIS, BCom PhD *Lond.*, MA *Manc.*, Hon. LHD *Col.*, Hon. LLD *Tor.*, *Wales & Williams*

VICE-PRINCIPAL—P. M. SHERLOCK, CBE, BA *Lond.*, Hon. LLD *Leeds*

REGISTRAR—H. W. SPRINGER, OBE, MA *Oxon.*, Hon. DScSoc *Laval*

LIBRARIAN—W. E. GOCKING, BA *Lond.*, FLA

## TEACHING STAFF

[† = Part-Time]

**Anatomy**, see Medicine

**Bacteriology**, see Medicine

**Biochemistry**, see Medicine

### Botany

Skelding, A. D., BSc <i>Lond.</i> , DSc <i>Birm.</i>	Prof.
Robertson, Mrs. Edith T., BSc <i>Glas.</i> , FGS	Lectr.
Adams, C. D., BSc PhD <i>Lond.</i>	Lectr.
Sidrak, G. H., MSc <i>Cairo</i> , PhD <i>Birm.</i>	Lectr.
Hunt, P., BSc PhD <i>Brist.</i>	Lectr.

### Chemistry

Haynes, L. J., PhD <i>Lond. &amp; Camb.</i> , FRIC	Prof.
Martin, S. L., DIC, MSc <i>Lond.</i> , FRIC	
	(Phys. C.) Sr. Lectr.
Bartley, W. G., BSc PhD <i>Lond.</i>	
	(Inorg. C.) Lectr.
Burnell, R. H., BSc <i>SirG.Wms.</i> , PhD <i>New Br.</i>	(Org. C.) Lectr.
Chandler, J. L., BSc <i>Lond.</i> (C. Technol.)	Lectr.
Sangster, A. W., BSc <i>Belf.</i> , PhD <i>Lond.</i>	
	(Org. C.) Lectr.
Konasiewicz, Z. M., DiplIng <i>Warsaw</i>	
	(C. Technol.) Lectr.
Chan, W. R., MSc PhD <i>Lond.</i>	Lectr.
Grimison, A., MSc PhD <i>Lond.</i>	Lectr.
Daniels, M., BSc PhD <i>Durh.</i>	Lectr.
Konasiewicz, Mrs. Alicja M., DiplIng <i>Warsaw</i> , PhD <i>Lond.</i>	Lectr.
Everard, K. E., BSc(Eng)	† Lectr.

Terrier, A. E., MSc(Eng) <i>Purdue</i>	
	(C. Technol.) † Lectr.
Warren, K. R., MEIC	† Lectr.
Lalor, G. C., MSc	Asst. Lectr.
Magnus, K. E., MSc PhD <i>Lond.</i>	Res. Fellow
Plimmer, J. R., BA <i>Dub.</i> , PhD <i>Edin.</i>	Res. Fellow
Stuart, K. L., BSc <i>McG.</i>	Jr. Res. Fellow

### Classics

Carrington, A. G., MA <i>Lond.</i>	St. Lectr.
Dicks, D. R., BA PhD <i>Lond.</i>	Lectr.
Dietrich, B. C., BA <i>Lond.</i>	Lectr.
Paul, G. M., MA <i>Oxon.</i>	Lectr.
Jackman, C. E., MA <i>Durh.</i> , DipEd <i>Oxon.</i>	† Lectr.

### Economics

Lewis, W. A., BCom PhD <i>Lond.</i> , MA <i>Manc.</i> , Hon. LHD <i>Col.</i> , Hon. LLD <i>Tor.</i> , <i>Wales</i> & <i>Williams</i> (Pol. Econ.) Prof., Hd. of Dept.	
Huggins, H. D., MS <i>Corn.</i> , AM PhD <i>Hart.</i>	(Appl. Econ.) Prof.
Keirstead, B. S., BA <i>New Br. &amp; Oxon.</i> , LLD <i>New Br.</i>	Prof.
Smith, M. G., BA PhD <i>Lond.</i> (Sociol.)	Sr. Lectr.
Newman, P. K., MSc(Econ) <i>Lond.</i>	
	(Econ.) Sr. Lectr.

### Lecturers

Cumper, G. E., MA <i>Camb.</i> , PhD <i>Lond.</i>	(Econ.)
Edwards, D. T., BSc <i>Wales</i> , MSc <i>R'dg.</i>	(Econ.)
Braithwaite, L. E. S., BA <i>Lond.</i>	(Sociol.)
Hall, D. G. H., BA <i>Tor.</i> , MSc(Econ) PhD <i>Lond.</i>	(Econ. Hist.)

\* Associate Member of the Association of Universities of the British Commonwealth

Davison, R. B., BSc(Econ) PhD *Lond.* (Econ.)  
 McIntyre, M. A., BSc(Econ) *Lond.* (Econ.)

**Education**

Figueroa, J. J. M., AB *Holy Cross*, TD  
 MA *Lond.*, Hon. PhD *Boston* Prof.  
 Walters, Elsa H., BA PhD *Lond.*  
 (Centre for Study of E.) Sr. Lectr.  
 Manley, D. R., AB *Col.*, MA *Lond.*,  
 PhD *Liv.* Lectr.  
 Gordon, Shirley C., MA *Lond.* Lectr.  
 Gray, C. R., BSc(Econ) DipEd *Lond.* Lectr.  
 Muller, Elizabeth, DPhil *Marburg* Lectr.  
 Doyle, Phyllis, MA *Lond.*  
 (Centre for Study of E.) Res. Fellow

**English**

Croston, A. K., MA *Camb.* Prof.  
 Owens, R. J., MA *Camb.*, PhD *Liv.* Lectr.  
 Stevick, R. D., MA *Tulsa*, PhD *Wis.* Lectr.  
 Kinghorn, A. M., MA PhD *Aberd.* Lectr.  
 Ingledew, J. E., DipEd MA *R'dg.* Lectr.  
 Carr, W. I., BA *Camb.* Lectr.  
 Bailey, Mrs. B. L., MA *Col.* Jr. Res. Fellow

**Government**

Chapman, B., MA DPhil *Oxon.*  
 Prof., Dir. Trg. Pub. Admin.  
 Mills, G. E. M., BSc(Econ) *Lond.*,  
 MPA *Harv.* Assoc. Dir. Pub. Admin.  
 Mark, F. X., MA PhD *Edin.*  
 (Pol. Instns.) Lectr.  
 Buchan, O. M. C., MA *Aberd.*, BA *Oxon.*  
 (Pol. Thought) Lectr.

**History**

..... Prof.  
 Goveia, Elsa V., BA PhD *Lond.* Sr. Lectr.  
 Augier, F. R., MA PhD *St.And.* Lectr.  
 Bartlett, C. J., BA PhD *Lond.* Lectr.  
 Furley, O. W., MA BLitt *Oxon.* Lectr.  
 Laurence, K. O., MA PhD *Camb.* Asst. Lectr.  
 Chandler, M. J., BA *Lond.* Archivist

**Languages, Modern**

Coulthard, G. R., BA *Oxon.*, PhD *Lond.*  
 Sr. Lectr.  
 Mailer, W., MA *Edin.*, LèSL *Paris* Lectr.  
 Soons, C. A., MA *Sheff.* Lectr.  
 Castor, G. D., MA *Camb.* Lectr.  
 Jackson, A. B., BA *Sheff.*, DU *Paris* Lectr.  
 Alleyne, M. C., BA *Lond.* Asst. Lectr.  
 Ching, K. M., BA *Lond.* Asst. Lectr.  
 Buscher, Mrs. G., MA *Edin.*, DV *Stras.*  
 Asst. Lectr.

**Mathematics**

Robinson, L. R. B., MA *Lond.* Sr. Lectr.  
 Cade, R., MSc PhD *Lond.* Sr. Lectr.  
 Read, R. C., MA *Camb.*, PhD *Lond.* Sr. Lectr.  
 Gladwell, G. M. L., BSc PhD *Lond.* Lectr.  
 Marshall, T. W., BA *Camb.* Lectr.  
 King, E. S., MSc *Lond.* Asst. Lectr.  
 2 Deptl. Assts.

**Medicine**, see below

**Pathology**, see Medicine, below

**Physics**

Bowen, F. H., OBE, DIC, AM *Col.*,  
 PhD *Lond.* Sr. Lectr., Hd. of Dept.  
 MacDonald, S. G. G., MA *Edin.*,  
 PhD *St. And.* Sr. Lectr.  
 Gosling, R. G., BSc PhD *Lond.* Lectr.  
 Allinson, P. A., BSc PhD *Durh.* Lectr.  
 Paton, F., BSc *St. And.* Lectr.  
 Jutsum, P. J., BSc *R'dg.* Lectr.  
 Reid, R. J. O., BSc *Belf.*, PhD *Dub.* Lectr.  
 Hall, R. B., BSc *Manc.* Lectr.

**Physiology**, see Medicine, below

**Sociology**, see Econ. and Govt.

**Surgery**, see Medicine, below

**Zoology**

Steven, D. M., MA DPhil *Oxon.*,  
 AM *Harv.* Prof.  
 Underwood, G. I., BSc *Lond.* Sr. Lectr.  
 Goodbody, I. M., BA *Dub.*, PhD *Aberd.* Lectr.  
 Locke, M., MA PhD *Camb.* Lectr.  
 New, D. A. T., BA *Oxon.*, PhD *Lond.* Lectr.  
 Page, W. A., BSc *Lond.* Lectr.  
 1 Deptl. Asst.

**MEDICINE****Anatomy**

Hoyte, D., MB ChB *Manc.* Prof.  
 Levene, C., MB BCh *Belf.* Sr. Lectr.  
 Lectr.  
 Lectr.

**Bacteriology**

Grant, L. S., MB ChB *Edin.*, MPH *Mich.*,  
 DipBact *Lond.* Reader  
 Turk, D. C., MB *Oxon.*, MRCP Lectr.  
 Belle, E. A., BA *Linc.*, MSc PhD *McG.* Lectr.

**Biochemistry**

Kean, E. A., BA *Tor.*, MSc *McG.*,  
 PhD *Lond.* Lectr.  
 Ellington, E. V., MA *Oxon.*, PhD *Lond.* Lectr.

**Medicine**

Cruickshank, E. K., OBE, MD ChB *Aberd.*,  
 FRCP Prof.  
 Waterlow, J. C., MA MD BChir *Camb.*  
 Hon. Reader  
 Back, E. H., MA MB BChir *Camb.*,  
 MRCP (Pædiatrics) Sr. Lectr.  
 Tulloch, J. A., MC, MD ChB *Edin.*, FRCP  
 (Clin. Med.) Sr. Lectr.



Gourlay, R. J., BSc *Oxon.*, MD *Glas.*,  
 DPH *Leeds* (Prev. Med.) Sr. Lectr.  
 Stuart, K. L., MD *Belf.*, DTM&H *Liv.*,  
 MRCPed Sr. Lectr.  
 Irvine, R. A., MB ChB *Leeds*, MRCP Lectr.  
 ..... (Prev. Med.) Asst. Lectr.  
 Angus, Joan, MB *Glas.*, MRCP (Pæd.) Lectr.  
 Dyer, H. C., MB BS *Lond.* (Prev. Med.) Asst.

### Obstetrics and Gynaecology

Stewart, D. B., MBE, BSc MD *Manit.*,  
 FRCSCan, FRCOG Prof.  
 ..... Sr. Lectr.  
 Douglas, C. P., BA *Camb.*, MB ChB *Edin.* Sr. Lectr.  
 Cummins, G. T. M., MB ChB *Aberd.* Lectr.  
 Gardiner, J., MB *Aberd.* Lectr.

### Pathology

Bras, G., MD *Batavia* Prof.  
 MacIver, J. E., BA MB BChir *Camb.*  
 (Clin. Pathol.) Sr. Lectr.  
 Robertson, W. B., BSc MB ChB *St.And.* Sr. Lectr.  
 Harland, W. A., MB BAO *Belf.*, FRCP Sr. Lectr.  
 Goldberg, I. J. L., MSc *Rhodes*, MA *Natal*  
 (Chem. Pathol.) Sr. Lectr.  
 Stirling, G. A., MB BS *Durh.* (Morbid Anat.) Lectr.  
 DePass, E. E., MB BS *Lond.* (Histochem.) Res. Asst.  
 Parker-Williams, E. J., MB BS *Lond.* (Hæmatol.) Res. Asst.

### Physiology

Mackay, I. F. S., MSc PhD *Manc.* Prof.  
 Feng, P. P., MD *Shanghai*, MS *Tennessee*,  
 BS *Yenching* (Pharmacol.) Sr. Lectr.  
 Goreau, T., MS PhD *Yale* Sr. Lectr.  
 Blane, G. F., BSc PhD *S'ton.* (Pharmacol.) Lectr.  
 Palmer, J. F., BSc *Lond.* Lectr.

### Surgery

Gilmour, J., MB MS *Durh.*, FRCS Prof.  
 Golding, J. S., OBE, MA MB BChir *Camb.*,  
 FRCS (Orthop.) Reader  
 Annamunthodo, H., MB BS *Lond.*, FRCS Sr. Lectr.  
 Weston, P. A. M., MB BS *Lond.*, FRCS Lectr.  
 Masson, A. F., BSc MB BS *Lond.*,  
 FRCSEd, FRCS Lectr.  
 Gore, D., BA MD *Col.* Lectr.

### Associate Lecturers

R. O. Cooke, MD CM *Dal.* (Mental Dis.);  
 R. A. S. Cory, OBE, MB ChB *Brist.* (Dis. of  
 the Chest); D. W. Degazon, MB BS *Lond.*,  
 FRCS (Ophthalmol.); F. W. Jacobson, MD  
*Berl.* (Dermatol.); H. Johnston, MB ChB  
*Edin.*, MPH *Harv.* (Prev. Med.); L. D.  
 March, LDS *Lond.* (Dental Surg.); J.  
 Marryat (Radiol.); R. J. Stout, MB BS

*Lond.*, FFARCS (Anæsth.); M. Sugar, MD  
*Berl.*, FRCSEd (E.N.T.); E. S. Sutherland,  
 DPH *Edin. & Glas.* (Venereal Dis.); S. P. W.  
 Street, FRCS (Surg.); E. J. Valentine, MB  
 ChB *Edin.*, DPH (Dis. of Chest).

## AGRICULTURE (in Trinidad)

### Agriculture

Webster, C. C., BSc PhD *Lond.*, AICTA Prof.  
 Jolly, A. L., MA *Camb.*, MSc *Wales*,  
 PhD *Lond.* (Econ.) Sr. Lectr.  
 Campbell, J. S., BScHort *R'dg.*,  
 DTA *Trin.* Sr. Lectr.  
 Wilson, P. N., BSc(Agr) MSc PhD *Lond.*,  
 DiplAnimalGenetics *Edin.* Sr. Lectr.  
 Forster, R. H., BSc *Lond.*, DTA *Trin.* Lectr.  
 Campbell, I. G., BSc *McG.*, DICTA Lectr.  
 Houghton, T. R., BSc(Agric) *Lond.*,  
 DipAgric *R'dg.* Lectr.  
 Williams, H. E., PhD *Edin.*, MSc *Wis.*,  
 DVM *Tor.* Lectr.  
 Butterworth, M. H., BSc PhD *St.And.*  
 Animal Nutrition Chemist  
 Henderson, T. H., DICTA Farm Manager  
 Kasasian, L., BSc *Birm.*  
 (Herbicides) Res. Agronomist

### Botany and Plant Pathology

Purseglove, J. W., BSc *Manc.*, AICTA,  
 FLS Prof.  
 Richards, P. T., MA *Oxon.* Lectr.  
 Richardson, W. D., BSc *Aberd.* Lectr.  
 Barnes, R. F., BSc *Lond.* (Plant Pathol.) Lectr.

### Chemistry and Soil Science

Vine, H., BSc PhD *Lond.* Reader  
 Rodrigues, G., FRIC Sr. Lectr.  
 Fewster, J. A., BSc PhD *St.And.* Sr. Lectr.

### Entomology

Underwood, G. I., BSc *Lond.* (Zool.) Prof.  
 Emsley, M. G., BSc *Lond.* Lectr.

### Sugar Chemistry and Technology

Yearwood, R. D. E., AICTA, DICTA  
 Sugar Technologist  
 King, P. P., MA *Camb.* Asst. Sugar Technologist  
 Munro, Roma E. C., BSc *Edin.*  
 (Phys. Chem.) Analyst

## REGIONAL RESEARCH CENTRE

..... Dir. of Res.  
 ..... Dep. Dir. of Res.  
 Cope, F. W., MSc PhD *Lond.* Sr. Plant Breeder  
 Bartley, B. G. D., BScAgr *Alld.*, MSc  
 PhD *Iowa* Plant Breeder  
 Gooding, H. J., BSc *Manc.* Plant Breeder  
 Williams, D. B., DICTA  
 (Food Crops) Asst. to Plant Breeder

Murray, D. B., MA *Camb.*, AICTA  
 Sr. Plant Physiologist  
 Nichols, R., MSc *Lond.* Plant Physiologist  
 Iton, E. F., BSc *Lond.*, DipAgrSc *Camb.*  
 Plant Pathologist  
 Breese, M. H., DIC, BSc *Wales* Entomologist  
 Griffiths, L. A., BSc PhD *Liv.* Biochemist  
 Coulter, J. K., BSc BAg *Belf.*,  
 DipAgricSc *Camb.*, FRIC  
 Offr. in charge, Soil Res. and Survey  
 Section  
 Moss, P., MSc *Wales* Soil Chemist  
 Maliphant, G. K., BSc PhD *Brist.* Soil Chemist  
 Vernon, K. C., BSc *Manc.*, AICTA  
 Sr. Soil Surveyor  
 Stark, J., BSc *Glas.* Soil Surveyor  
 Twyford, I. T., BSc *Lond.*  
 Agronomist-Soil Surveyor  
 Walmsley, D., MSc PhD *Lond.*, AKC  
 Soil Chemist  
 Smith, G. W. R., MSc *Lond.* Physicist  
 Spector, J., BSc *Lond.* Spectrographer  
 Hodnett, G. E., BSc *Liv.* Statistician  
 Robson, G. R., BSc PhD *Durh.*, FGS Seismologist  
 Barr, K. G., BSc *Lond.* Assistant Seismologist  
 Arlett, C. F., BSc *Wales*, PhD *Birm.*  
 Microgeneticist, Rubber Res. Unit  
 Ross, R. Manager, River Estate  
 White, V. E., DICTA  
 Asst. Manager, River Estate

**ENGINEERING** (in Trinidad)

Whitton, P. W., DIC, BSc(Eng) PhD *Lond.*  
 (Mech. E.) Prof.

Everard, K. A., DIC, BSc PhD *Lond.*  
 (Civil E.) Sr. Lectr.

**EXTRA-MURAL STUDIES**

Dir.—S. G. Raybould, BSc(Econ) PhD *Lond.*\*  
 Resident Tutors :—*Barbados*—A. A. Thompson,  
 BA *Lond.*, CertEd *Camb.*; *British Guiana*—  
 B. A. N. Collins, BA *Lond.*, MA PhD  
*Oregon*; *British Honduras*—V. H. B. Leslie,  
 BA *Lond.*, *Jamaica*—R. M. Nettleford, BA  
*Lond.*, BPhil *Oxon.*; *Leeward Islands*—J.  
 Brown, BA *Lond.*; *Trinidad*—Ruby Samlal-  
 singh, BA *Manc.*, DipSocSc *Liv.*; *Windward*  
*Islands*—Margaret S. Blundell, BA *Camb.*;  
*St. Vincent*—J. Millette, BA *Lond.*; Staff  
 Tutor in Drama, E. G. Hill; Staff Tutor in  
 Indust. Relns., R. E. G. Farley, BA BSc  
 (Econ) PhD DipEd *Lond.* (on leave); Staff  
 Tutor in Soc. Stud., P. C. W. Gutkind, BA  
*Earlham*, MA *Chic.*; Actg. Staff Tutor in  
 Indust. Relns., Z. A. Henry, BA *Lond.*,  
 MA PhD *McG.*; Radio Educn. Unit, H. P.  
 Morrison, BS MA *Col.*

**INSTITUTE OF SOCIAL AND  
ECONOMIC RESEARCH**

Dir.—H. D. Huggins, MSc *Corn.*, AM PhD  
*Harv.*  
 Res. Fellow—E. P. Reubens, MA PhD *Col.*  
 Jr. Res. Fellows—L. A. Best, BA *Camb.*; E. R.  
 Chang, BSc(Econ) *Lond.*, MAEcon *Yale.*

**ADMINISTRATIVE AND OTHER STAFF**

Sr. Asst. Registrar : H. L. Wynter, MA *Oxon.*,  
 PostgradCertEd *Lond.*; Asst. Registrars : Mrs.  
 Ivy L. Maynier, BA *Tor.*, LLB *McG.*; Peggy  
 Antrobus, BA *Brist.*; A. E. Burt, MA *How.*,  
 PhD *Tor.* Bursar : A. Z. Preston, JP, LLB *Lond.*  
 Steward : Major K. T. Craig, MBE. Supervisor,  
 Bldg. Services : . . . . . Public Relns. Officer :  
 C. G. Lindo. Accountant : H. C. Holness.  
 Office Manager : Mrs. Sylvia I. Dunkerley, MBE.  
 Domestic Bursar : S. M. Bryan. Dep. Librarian :  
 K. E. Ingram, BA *Lond.*, FLA; Sr. Asst.  
 Librarian : Mercedes D. Josephs, BA *Lond.*;  
 Asst. Librarians : Elsie Woo-Ming, BA *Tor.*,  
 MS *Col.*, Elaine Henriques, BA BLS *McG.*  
 Wardens : Chancellor Hall, F. H. Bowen, DIC,  
 AM *Col.*, PhD *Lond.*; Irvine Hall, W. F. Harper,

MD PhD *St.And.*; Mary Seacole Hall, Mrs.  
 Lucille M. Mathurin, BA *Lond.*; Taylor Hall,  
 S. L. Martin, DIC, MSc *Lond.*, FRIC. Lodgings  
 Officer : Capt. E. La Croix.

**Resident in Trinidad**

Registrar : G. G. Gianetti, MA DipAgrEcon  
*Camb.*; Asst. Registrar : Phyllis A. Clarke, BA  
 DipEd *Lond.* Bursar : R. Adair, DPA. *Durh.*  
 Warden, Milner Hall : J. A. Fewster, BSc PhD  
*St.And.* Accountant : C. M. Jolly. Sr. Asst.  
 Librarian : Alma T. Warner, BA *Lond.*, MS *Col.*;  
 Asst. Librarian : Audrey K. Roberts. Clerk of  
 Works : I. J. Cook. Actg. Health Officer : H. S.  
 Littlepage.

**GENERAL INFORMATION**

The univ. coll. was incorporated by royal  
 charter granted on Jan. 5, 1949. Its establt. was  
 recommended and planned by a cttee. of the

Commission on Higher Educn. in the Colonies  
 under the chairmanship of Sir James Irvine,§ then  
 principal and vice-chancellor of the Univ. of St.

\* On secondment from Univ. of Leeds for 1 yr.

§ Report of the West Indies Committee of the Commission on Higher Education in the Colonies (H.M.S.O.  
 1945. Cmd. 6654).

**Andrews.** Undergrads. were first admitted in Oct. 1948. The govt. of Jamaica has given on lease for 999 yrs. a site of over 1 sq. ml. about 7 miles from Kingston. The facs. of agric. and of engin. were establd. in 1960. The Imperial Coll. of Trop. Agric. at St. Augustine, Trinidad, became a fac. of the univ. coll., to be known as the fac. of agric.—Imperial Coll. of Trop. Agric., U.C.W.I. The Imperial Coll. of Trop. Agric. was founded in 1921 as the W. Indian Agric. Coll. on the recommendation of a cttee. apptd. to conduct res. and provide instructn. in trop. agric. It was formally opened in Oct. 1922. In 1924 its name was changed to 'The Imperial Coll. of Trop. Agric.' 2 yrs. later the coll. was incorporated by royal charter. In March 1959 the governing bodies of U.C.W.I. and Imperial Coll. of Trop. Agric. agreed, with the approval of the fed. and unit govts., that from Aug. 1, 1960, the Imperial Coll. would be incorporated into the Univ. Coll. as the fac. of agric. The fac. of engin. is sited in assocn. with the fac. of agric. at St. Augustine in Trinidad. Teaching for the degree of BSc(Eng) in chem., civil, electr., and mech. engin. will begin on Oct. 1961. The Trinidad facs. are situated at St. Augustine, 8 miles E. of Port of Spain. The coll. farm of 300 acres is situated 3 miles W. of the coll. The vice-principal of the coll. is resident at St. Augustine.

**CONSTITUTION.** The univ. coll. is an autonomous instn. governed by a council on which each of the British Caribbean territories, the senate, the guild of grads. and the Inter-Univ. Council for Higher Educn. Overseas are represented. The senate consists of members of the teaching staff with the principal as chairman.

**INCOME.** Grants have been made from Colonial Devel. & Welfare funds towards the capital costs, but recurrent expenditure is met from the revenues of the Caribbean territories and the fed. govt. Income for 1959-60 (excl. facs. in Trinidad): £840,776 (grant from fed. govt., 73.5 per cent.; fees, 2 per cent.; interest from endowments, 2 per cent.; other sources, 21.8 per cent.). Income for 1959-60 of fac. of agric. (Imperial Coll. of Trop. Agric.) derived from contributions by principal trop. territories in the British Commonwealth, H.M. Treasury, various assocns., companies and individuals, and tuition fees.

**FACULTIES AND DEANS.** *Agric.*, Prof. J. W. Purseglove (bot.); *arts*, Prof. A. K. Croston (Engl.); *med.*, Prof. G. Bras (pathol.); *nat. scis.*, Prof. L. J. Haynes (chem.); *soc. scis.*, Prof. H. D. Huggins (econ.).

**LIBRARY.** Jamaica: 46,900 books, 5527 pamphlets, 359 maps, 305 microfilms, films and film strips, 12,421 microcards and microprints, 152,053 periodicals, 51,997 govt. publicns., 1796 calendars. Trinidad: 25,000 vols., 80,000 pamphlets and periodicals on trop. agric. and related

**TEACHING HOSPITAL.** Med. & surg., obstet. Total, 350 beds; 107 clin. students.

**INSTITUTE OF SOCIAL AND ECONOMIC RESEARCH**, attached to fac. of soc. scis., is mainly concerned with appl. res. and social questions affecting the Caribbean area; members of its staff work in centres other than Jamaica.

**REGIONAL RESEARCH CENTRE (Trinidad)** associated with fac. of agric. Res. is undertaken mainly in these subjs.: cocoa, banana, soils, improved food crops, stats., seismol., and sugar res. on behalf of B.W.I.A.

**ADMISSION.** Men and women are eligible for admission if they are qualified either to satisfy the entrance requirements of Univ. of London (see Appendix II) or a sp. scheme \* operating between the Univ. of London and the univ. coll.

**FIRST DEGREES (of Univ. of London).** The univ. coll. is in a special relationship with the Univ. of London\*; the degrees awarded are those of London, the schemes of exam. being devised jtly. by the coll. and the univ. and the exam. conducted by examiners from both bodies.

3 yrs.: BA gen. or hors. (in Engl., French, hist., maths., Latin, Spanish); BSc gen. or sp. (in bot., chem., maths., phys., zool.); BSc(Econ), BSc(Agric), BSc(Eng). 6 yrs.: MB BS. No degree can be obtained without attendance upon the prescribed courses in the univ. coll. extending (except in approved cases) over at least 3 academic yrs. after matric.

**HIGHER DEGREES (of Univ. of London).** Grad. students and full-time teaching and res. staff of the univ. coll. may register for the PhD degree of the Univ. of London under the internal regns. The MSc and MA degrees under sp. relationship may be taken 2 yrs. after graduation. Agric. the associateship of Imperial Coll. may be taken after 1 yr. by BSc(Agric) grads. or by persons holding an approved degree in agric. of a British Commonwealth univ. or other univ. approved by the coll.

**DIPLOMAS.** 1 yr.—educn., chem. technol.

**CERTIFICATES.** 1 yr.—educn., pub. admin.

**STUDY LEAVE**, with passages provided for the staff member, his wife and children up to a max. of not more than 5 full passages in all, to the U.K., W. Europe or N. America, is granted in respect of every 3 yrs.' service. Provision of passages to places other than those mentioned is at discretion of the council.

**FEES.** A charge of £150 covers residence, sports sub. and simple med. attention for 31 wks.' residence. Tuition fees: £50 p.a. in med., agric.; £25 p.a. in sci.; £20 p.a. in arts and soc. scis.

**ACADEMIC YEAR.** 1960-61: M'Mas, Oct. 2-Dec. 17; Hil., Jan. 15-March 25; Trin., April 16-June 24. 1961-62: M'Mas., Oct. 1-Dec. 16; Hil., Jan. 14-March 24; Trin., April 15-June 23.

\* For a note on these 'special relationship' arrangements, see p. 973

**SCHOLARSHIPS.** The univ. coll. awards open scholps. by exams. held in the Caribbean territories each yr. In addition, several of the territories award exhibitions to those educated or born in the territory. Private benefactions have establd. other awards. Several scholps. have been endowed under the Princess Alice appeal.

**PRINCIPAL 'OPEN' POSTGRADUATE AWARD.** T. Geddes Grant res. fellowship, awarded to grads. normally resident in the Caribbean territories for postgrad. work in subj. of Caribbean interest.

**GRADUATES' ASSOCIATIONS.** Guild of grads. incl. not only grads of the Univ. Coll. of the West Indies but grads. of other univ. instns. recog. for the purpose by the coll. council.

**RESIDENCE.** Undergrads. required to live in residence for 2 yrs. of their course. Halls for men: Chancellor Hall, Taylor Hall, Irvine Hall and Milner Hall. Women: Mary Seacole Hall. Address of Milner Hall: Univ. Coll. of the West

Indies, St. Augustine, Trinidad, West Indies. Address of all others: Univ. Coll. of the West Indies, Mona, Kingston 7, Jamaica, West Indies.

**STAFF RESIDENCES.** Houses and flats made available to members of staff.

**HEALTH SERVICES.** Members of staff and students receive med. attention at the Univ. Coll. Hosp. in Jamaica, and through the med. officer, St. Augustine.

**STUDENTS' UNION.** There is a guild of undergrads. which among other activities manages a students' union.

**PUBLICATIONS.** *Year Book*; *Principal's Report*; *Caribbean Quarterly*; *Caribbean Affairs* (series of pamphlets); *Social and Economic Studies*; *West Indian Medical Journal*; *The Pelican*, *The Pelican Annual* (student publications); St. Augustine: *Prospectus*; *Tropical Agriculture* (from 1954, publ. in London); *Memoirs and Reports*.

## THE YEAR 1959

**PRINCIPAL BENEFACTIONS.** Rockefeller Foundation, £111,622; Ford Foundation, £123,150; I.C.A., £178,500.

**MAJOR BUILDING DEVELOPMENTS.** *Bldgs. completed*: chapel, sr. common room; extension to depts. of chem. and physiol. *Approaching completion*: women's residence dining hall; addnl. staff accomm.

**NEW DEPARTMENTS AND CHAIRS.** Depts.: govt., bacteriol., biochem. Chairs: govt., engin., agric.

**NEW FACULTIES.** Engin., agric. (both sited in Trinidad); soc. scis.

**RETIREMENTS.** W. F. Harper (anat.); A. E. Douglas-Smith (resident tutor).

**RESIGNATIONS.** A. P. Thornton (hist.), to Tor.; R. B. Le Page (Engl.), to Malaya; A. M. Ross (Engl.), to Hull; M. Sandmann (mod. langs.), to Calif.; I. A. Brunet (French), to Djakarta; C. H. Barrow; L. N. Went (chem. pathol.); H. G. Dixon (obstet. & gynæcol.): S. J. Patrick (biochem.), to Halifax; J. E. MacIver (clin. pathol.), to Leeds; G. R. Grant (resident tutor); J. H. Palmer (bot.), to C.S.I.R.O., Australia; P. C. W. Gutkind (E.M. staff tutor), to Brandeis Univ.; D. Hum (maths.), to Imperial Coll. of Sci. & Technol., Lond.; H. J. Hudson (bot.); J. H. M. Pinkerton (obstet. & gynæcol.), to Chelsea Hosp. for Women.

### Statistics

**STUDENT NUMBERS, 1959-60**  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	446	2
Women . . .	249	—
<b>Total</b>	<b>695</b>	

Distribution by Faculties. *Arts*, 210; *educn.*, 20; *med.*, 232; *nat. scis.*, 166; *soc. scis.*, 39. Total: 697.

*Included in the figures above are* :—

Postgraduate students, 33.

New admissions, 222.

Students from other countries, 12.

**DEGREES AWARDED** (sp. relationship with Univ. of London) (1958-59). *Arts*: BA, 30; BA (hons.), 26. *Med.*: MB BS, 22. *Nat. scis.*: BSc, 29; MSc, 1. *Total number of first degrees awarded*, 107.

**DIPLOMAS AWARDED** (1958-59). DipChem Tech, 2; DipEd, 28.

### Imperial College of Tropical Agriculture

**RETIREMENT.** G. A. C. Herklots (principal & dir. of res.).

**RESIGNATIONS.** N. W. Simmonds (sr. cytogeneticist); M. C. Bennett (jr. phys. chemist); A. F. Thomson (chem. engin.); T. F. Finch (soil surveyor); W. J. Badcock (agric.); K. Shepherd (cytogeneticist); P. H. Rosher (agric.); C. Tomlinson (soil surveyor); M. E. M. Price (librarian).

### Statistics

**STUDENT NUMBERS, 1959-60.** Full-time, 78; grads. and sp. course students, 41; preparing for G.C.E. Advanced level, 11; preparing for dipl., 26.

**DIPLOMAS** (1959). DICTA (gen. agric.), 8; DTA Trin., 41; AICTA (by res.), 2; AICTA, 6; cert. of satisfactory attendance, 1; AICTA (sugar technol.), 1.



# APPENDICES

- I Universities of the Republic of Ireland (p. 1302)
- II University admission requirements (p. 1326)
- III Students from other countries in United Kingdom universities (p. 1398)
- IV British academic institutions abroad (p. 1402)
- V Short bibliography (p. 1404)
- VI Commonwealth scholarship and fellowship plan (p. 1411)
- VII The Association of Universities of the British Commonwealth (p. 1413)

# APPENDIX I

## UNIVERSITIES OF THE REPUBLIC OF IRELAND

*The following are associated for historical reasons with the universities of the Commonwealth*

UNIVERSITY OF DUBLIN, TRINITY COLLEGE (p. 1302)

NATIONAL UNIVERSITY OF IRELAND (p. 1311)

UNIVERSITY COLLEGE, DUBLIN (p. 1313)

UNIVERSITY COLLEGE, CORK (p. 1318)

UNIVERSITY COLLEGE, GALWAY (p. 1323)

[Information compiled as at 30/8/60]

## UNIVERSITY OF DUBLIN, TRINITY COLLEGE

Founded 1592

*Postal Address* : Dublin 2, Republic of Ireland

*Cables and Telegrams* : Trinity, Dublin

*Telephone* : Dublin 72941-6

CHANCELLOR—The Rt. Hon. THE EARL OF IVEAGH, KG, CB, CMG, LLD

VICE-CHANCELLOR—The Rt. Hon. THE EARL OF ROSSE, LLD

VISITORS OF TRINITY COLLEGE—THE CHANCELLOR (or VICE-CHANCELLOR) ; The Hon. Mr. Justice  
T. C. KINGSMILL MOORE, LLD

PROVOST—A. J. McCONNELL, DU<sup>Rome</sup>, Hon. DSc *Belf.*, Hon. ScD *Col.*, MA ScD

LIBRARIAN—H. W. PARKE, MA *Oxon.* & *Dub.*, LittD

BURSAR—F. B. CHUBB, DPhil *Oxon.*, MA *Oxon.* & *Dub.*

REGISTRAR—G. F. MITCHELL, MA MSc

SENIOR LECTURER—T. W. MOODY, BA Hon. DLit *Belf.*, PhD *Lond.*, MA

SENIOR TUTOR—W. F. PYLE, MA PhD

## SENIOR FELLOWS OF THE COLLEGE

Aice, A. A., MC, Hon. DLit Belf., MA LittD  
 DD  
 Johnston, J., MA Oxon. & Dub., Sr. Proctor  
 Godfrey, F. La T., MA, Catechist and Sr. Dean  
 Parke, H. W., MA Oxon. & Dub., LittD, Vice-  
 Provost and Librarian

Duncan, G. A., MA LLB  
 Broderick, T. S., MA N.U.I. & Dub.  
 Walton, E. T. S., PhD Camb., Hon. DSc Belf.,  
 MA MSc

## JUNIOR FELLOWS OF THE COLLEGE

Stanford, W. B., MA LittD  
 Wormell, D. E. W., PhD Yale, MA Camb. &  
 Dub., Public Orator  
 Moody, T. W., BA Hon. DLit Belf., PhD Lond.,  
 MA, Sr. Lectr.  
 O'Meara, R. A. Q., ScD MD, FRCPI  
 Mitchell, G. F., MA MSc, Registrar  
 Quin, E. G., MA, Tutor  
 Furlong, E. J. J., MA  
 Gregg, A. H., MSc Belf., PhD Lond., MA, Tutor  
 Luce, J. V., MA Oxon. & Dub., Tutor  
 Webb, D. A., MA PhD Camb. & Dub., ScD  
 Pyle, W. F., MA PhD, Sr. Tutor  
 McDowell, R. B., MA PhD, Tutor, Jr. Dean and  
 Registrar of Chambers  
 Pepper, D. C., BSc Lond., PhD Camb., MA  
 Lyons, F. S. L., MA PhD, Tutor  
 Chubb, F. B., DPhil Oxon., MA Oxon. & Dub.,  
 Bursar

Allen, A. C., BSc Belf., PhD Prin., MA  
 Delaney, C. F. G., MA PhD, Tutor  
 Ryan, W. J. L., MA PhD  
 Riley, E. C., MA Oxon. & Dub., Tutor  
 Poole, J. H. J., MA MAI ScD  
 Weingreen, J., MA PhD  
 Arnould, E. J. F., PhD DLit Lond., Dèsl. Paris,  
 MA Lond. & Dub.  
 Cocker, W., PhD DSc Manc., MA ScD, FRIC  
 Jessop, W. J. E., MSc MD, FRCPI  
 Gill, W. D., DSc Leeds, MA  
 Greene, D. W., MA  
 Wright, W., BSc Glas., PhD Aberd., MA, MICE  
 McMurphy, T. B. H., MA PhD, Jr. Proctor, Tutor  
 Erskine, C. A., MA PhD  
 Stewart, F. S., MD, FRCPI  
 Dowrick, F. E., MA Oxon. & Dub., Tutor  
 Watts, W. A., BA, Tutor

## HONORARY FELLOWS

Ross, Sir W. David, KBE, LittD, FBA  
 Weaver, J. R. H., MA LittD  
 Clark, Sir George N., MA Camb. & Oxon., LL.D  
 Aberd., DrLC Utrecht, DLitt Durh., Oxon. &  
 Sheff., LittD, FBA  
 Starkie, W. F., CBE, MA LittD

Synge, J. L., MA ScD, FRS  
 Wordie, Sir James M., CBE, MA Camb., LLD  
 Glas.  
 Gwynn, R. M., MA BD  
 McConnell, A. A., MA MCh, FRCSI

## TEACHING STAFF

[† - Part-Time]

**Anatomy, Human, and Embryology,**

See also Zool.

Erskine, C. A., MA PhD Prof.  
 Kinnear, N. A., MB, FRCSI (Appl. A.) Lectr.  
 Weekes, Blanche, MA MD MSc  
 (Human A.) Lectr., Tutor  
 O'Morchoe, C. C. C., MA MB Jr. Lectr.

**Arabic**, see Oriental Langs.

**Archæology**, see Classical Archæol. and  
 Irish Archæol.

**Art, History of**

Bodkin, T., MA Birm., DLitt N.U.I., Hon. Prof.  
 LittD

**Astronomy**

O'Connor, F. J., MA Lectr.

**Biochemistry**, see Medicine**Botany and Plant Biology**

Webb, D. A., MA PhD Camb. & Dub., ScD Prof.  
 Watts, W. A., BA Lectr.  
 Lösel, Mrs. Dorothy M., BSc PhD Glas. Jr. Lectr.  
 Taggart, J., BSc Glas. Jr. Lectr.

**Celtic Languages**, see also Irish

Quin, E. G., MA Reader

**Chemistry**

Cocker, W., PhD DSc Manc., MA ScD, FRIC Prof.  
 Pepper, D. C., BSc Lond., PhD Camb., MA Reader  
 Stuart, E. R., BSc St. And., MA, FRIC Lectr., Tutor  
 McMurphy, T. B. H., MA PhD Lectr.  
 Davis, W. J., BSc PhD Belf., MA Lectr.



Lee, J. B., BA *Camb.*, PhD *Lond.* Jr. Lectr.  
 Lonergan, G. A., BSc *N.U.I.* Jr. Lectr.

### Classical Archaeology

Parke, Prof. H. W., MA *Oxon.* & *Dub.*,  
 LittD Louis Claude Purser Lectr.

### Classics

Stanford, W. B., MA LittD  
 (Greek) Regius Prof.  
 Wormell, D. E. W., PhD *Yale*,  
 MA *Camb.* & *Dub.* (Latin) Prof.  
 Luce, J. V., MA *Oxon.* & *Dub.* Lectr.  
 Porter, W. H., MA Hon. Lectr.  
 Hinds, A. E., MA Jr. Lectr.  
 Goodman, Valerie A. H., BA *Lond.* Jr. Lectr.

### Commerce

Lyons, F. S. L., MA PhD (Econ. Hist.) Lectr.  
 Haughton, J. P., MA MSc  
 (Comm. Geog.) Lectr.  
 Butler, W. B., MA (Acctg.) †Lectr.  
 Thornton, E. H., MSc(Econ) *Lond.*, MA  
 (Stats.) Lectr., Tutor  
 Magrath, C. R. R., MA  
 (Bus. Orgn., Banking, Foreign Trade)  
 †Lectr.  
 Moran, Prof. Frances E., Hon. LLD *Belf.*,  
 MA LLD (Comm. Law) †Lectr.  
 Corrigan, T. H., MA (Insurance) †Lectr.  
 Smurthwaite, J., MA (Indust. Psychol.) †Lectr.  
 Foley, P. A., MA (Transport) †Lectr.  
 Pakenham-Walsh, A. A., MA *Oxon.* & *Dub.*  
 (Management) Lectr.  
 Abrahamson, M. W., MA LLB  
 (Indust. & Comm. Law) †Lectr.

### Dentistry

Friel, E. S., MDentSc ScD (Orthodontics) †Prof.  
 †Lecturers  
 Ganly, A., MA BDentSc (D. Prosth.)  
 O'Brien, B. E., MB (Med. for D. Students)  
 Dockrell, R. B., BDentSc MB (D. Anat.)  
 Healy, K. G., MA LDS (D. Surg.)  
 Hogan, N. J., MB BDentSc (Oral Surg.)  
 McCollum, S. T., MB, FRCSI  
 (Surg. for D. Students)

Divinity, see Theol.

Economics, see Pol. Econ. and Comm.

### Education

Crawford, Rev. E. A., MA BD PhD Prof.  
 Moore, M. F., BEd *Edin.*, MA Lectr., Tutor  
 Powell, J. P., BA *Brist.* Jr. Lectr.  
 Little, Mrs. Anita C., MA Asst.

### Engineering Science

Wright, W., BSc *Glas.*, PhD *Aberd.*, MA,  
 MICE Prof.  
 Graham, V. W., MA (Maths.) Lectr.

Fitzgibbon, G., MA MAI  
 (Civil E.) Lectr., Tutor  
 O'Clery, D., MA MAI (Mech. E.) Lectr.  
 Kirwan, R. W., MA MAI (Civil E.) Lectr.  
 McKenna, D., MSc *Belf.* (Mech. E.) Lectr.  
 Eccles, W., MSc *Manc.* (Mech. E.) Lectr.  
 Haughton, D. N., BA MAI  
 (Bldg. Construcn.) †Lectr.  
 Jones, N. E., BA BAI (Town Planning) †Lectr.  
 O'Neill, J. W., BA MAI, MIEE  
 (Electr. E.) †Lectr.  
 Cox, R. C., BA BAI (Civil E.) Jr. Lectr.

### English Language and Literature

Edwards, P. W., MA PhD *Birm.* Prof.  
 Pyle, W. F., MA PhD Reader  
 French, R. B. D., MA Lectr.  
 Richardson, Frances E., MA *Oxon.* & *Dub.*,  
 BLitt *Oxon.* Jr. Lectr.  
 Walton, J. K., MA MLitt Jr. Lectr.  
 Reid, F. A., BA Asst.  
 Turner, Daphne M. S., BA Asst.

### French

Arnould, E. J. F., PhD DLit *Lond.*,  
 Dèsl *Paris*, MA *Lond.* & *Dub.* Prof.  
 Skeffington, O. L. S., MA PhD Reader  
 Leventhal, A. J., MA PhD Lectr.  
 Shields, H. E., MA Jr. Lectr.  
 O'Regan, M. J., MA *Lond.* & *Dub.* Jr. Lectr.  
 North, Meta E., MA Asst.

### Genetics

Dawson, G. W. P., BSc *Lond.*,  
 MA *Camb.* & *Dub.* Reader

### Geography

Haughton, J. P., MA MSc Reader  
 Andrews, J. H., MA *Camb.*, PhD *Lond.* Lectr.  
 Davies, G. L., MA *Manc.* & *Dub.* Lectr.  
 Aalen, F. H. A., BA *Durh.* Jr. Lectr.

### Geology and Mineralogy

Gill, W. D., DSc *Leeds*, MA Prof.  
 Mitchell, G. F., MA MSc Lectr.  
 Bailey, D. K., BSc PhD *Lond.* Lectr.  
 Lewarne, Gillian C., BSc PhD *R'dg.* Jr. Lectr.  
 Hudson, R. G. S., DSc *Lond.*  
 Iveagh Res. Fellow

### Geophysics

Poole, J. H. J., MA MAI ScD Prof.

### German

Thomas, L. H. C., MA *Oxon.*, PhD *Leeds* Reader  
 Lösel, F. A. G., DrPhil *Fran.* Jr. Lectr.  
 O'Boyle, Ita, MA *N.U.I.* Jr. Lectr.

Hebrew, see Oriental Langs.

### History, Ancient

Parke, H. W., MA *Oxon.* & *Dub.*, LittD Prof.

**History, Ecclesiastical, see Theol.**

**History, Modern, see also Oratory and Hist.**

Moody, T. W., BA Hon. DLit *Belf.*,  
PhD *Lond.*, MA Prof.  
Ottway-Ruthven, Annette J., PhD *Camb.*,  
MA Lecky Prof.  
McDowell, R. B., MA PhD Lectr.  
Lyons, F. S. L., MA PhD Lectr.  
O'Sullivan, D., MA LittD  
(Internat. Affairs) Lectr.  
Lydon, J. F., MA *N.U.I.*, PhD *Lond.* Jr. Lectr.  
Simms, J. G., MA *Oxon.* & *Dub.*, PhD Asst.

**Irish**

Greene, D. W., MA Prof.  
Ó Cadhain, M., MA Lectr.  
Macaulay, D., MA *Edin.* & *Camb.* Lectr.  
Risk, Mrs. May H., MA PhD Jr. Lectr.

**Irish Archæology**

Mitchell, G. F., MA MSc Reader

**Italian**

McWilliam, G. H., BA *Leeds* Lectr.  
Tomacelli, E., DGiur *Naples*, MA Lectr.

**Law, see below**

**Mathematics**

Broderick, T. S., MA *N.U.I.* & *Dub.*  
Erasmus Smith's Prof.  
Allen, A. C., BSc *Belf.*, PhD *Prin.*, MA Lectr.  
Meredith, C. A., MA *Camb.* Lectr.  
Graham, V. W., MA Lectr.  
Bass, L., DrPhil *Vienna*, MA Jr. Lectr.  
Murdoch, B. H., AM PhD *Prin.*, BA Jr. Lectr.

**Medicine, see below**

**Music**

Hewson, G. H. P., MA MusD †Prof.

**Oratory and History, see also Hist., Mod.**

Moody, T. W., BA Hon. DLit *Belf.*,  
PhD *Lond.*, MA Erasmus Smith's Prof.

**Oriental Languages, see below**

**Philosophy**

Furlong, E. J. J., MA Prof.  
Luce, A. A., MC, Hon. DLit *Belf.*, MA  
LittD DD (Metaphys.) Berkeley Prof.  
Godfrey, F. La T., MA Lectr.  
Denard, W. V., MA BLitt Lectr., Tutor  
Weiler, G., MA *Jerusalem*, BLitt *Oxon.* Jr. Lectr.

**Phonetics**

Quin, E. G., MA Lectr.

**Physics**

Walton, E. T. S., PhD *Camb.*, Hon. DSc  
*Belf.*, MA MSc Erasmus Smith's Prof.  
Poole, J. H. J., MA MAI ScD Lectr.  
Gregg, A. H., MSc *Belf.*, PhD *Lond.*, MA Lectr.  
Delaney, C. F. G., MA PhD Lectr.  
Elliott, R. B., MSc *Birm.*, BA Lectr.

**Physiology**

Torrens, D. S., MA MB  
Prof. & King's Prof. of Insts. of Med.  
Wilson, R., MD, FRCPI (Appl. P.) Lectr.  
Fry, R. J. M., MB Lectr.  
O'Morchoe, Mrs. Jean, MB Jr. Lectr.

**Political Economy, see also Comm.**

Duncan, G. A., MA LLB Prof.  
Johnston, J., MA *Oxon.* & *Dub.*  
(Appl. Econ.) Prof.  
Ryan, W. J. L., MA PhD Lectr.  
Tait, A. A., MA *Edin.* Jr. Lectr.

**Political Science**

Chubb, F. B., DPhil *Oxon.*, MA *Oxon.* &  
*Dub.* Prof.  
Thornley, D. A., MA PhD Jr. Lectr.

**Russian**

McMackin, Margaret M., MA *Belf.* Lectr.

**Sanskrit, see Oriental Languages, below**

**Spanish**

Riley, E. C., MA *Oxon.* & *Dub.* Reader  
Whinnom, K., MA *Oxon.* Lectr.  
Rogers, D. C. de W., MA Jr. Lectr.

**Theology, see below**

**Veterinary Medicine, see below**

**Zoology and Comparative Anatomy**

Grainger, J. N. R., PhD *Lond.*, BA MSc Prof.  
Howie, D. I. D., BSc PhD *St.And.*, MA Lectr.  
Goodhue, R. D., BSc PhD *Lond.* Jr. Lectr.  
..... Jr. Lectr.

**LAW**

Moran, Frances E., Hon. LLD *Belf.*, MA  
LLD †Regius Prof. of Laws  
Dowrick, F. E., MA *Oxon.* & *Dub.* Lectr.  
Jackson, P., LLB *Liv.*, BCL *Oxon.* Jr. Lectr.

**Penal Legislation, Constitutional and Criminal Law, and Law of Evidence**

Russell, M., BA LLB †Reid Prof.

**Roman Law**

McKenna, C. B., LLD †Lectr.

**MEDICINE (PHYSIC)**(for subs. of the first 2 yrs.—Anat., etc.,  
see above)

Synge, V. M., MD, FRCPI

(Practice of Med.) King's Prof.

Gatenby, P. B. B., MA MD, FRCPI Prof.

O'Brien, B. E., MA MD Asst.

**Anæsthetics**

McCormick, V. O., MD, FRCPI †Lectr.

**Bacteriology and Preventive Medicine**

Stewart, F. S., MD, FRCPI Prof.

McKeever, J. D., MD Lectr.

Roberts, W. S. L., MA Lectr.

Martin, W. T., BA Jr. Lectr.

Pomeroy, Harriet M., MA Asst.

**Biochemistry**Spencer, B., BSc PhD *Liv.* Prof.Boggust, W. A., MSc *Durh.*, PhD Lectr.**Laryngology and Otology**

Woods, R. R., MB, FRCSI †Lectr.

**Materia Medica and Pharmacy**

Micks, R. H., MA MD, FRCPI †King's Prof.

**Medical Jurisprudence**

Wallace, J. A., BA BSc MB, FRCPI †Lectr.

**Medicine, Experimental**

O'Meara, R. A. Q., ScD MD, FRCPI Prof.

**Midwifery**

Davidson, A. H., MD, FRCPI, FRCOG

†King's Prof.

Fleming, J. B., MAO MD, FRCPI,

FRCOG (Midwifery &amp; Gynæcol.) †Prof.

McVey, H., MAO MD †Asst.

Browne, A. D. H., MAO MD †Asst.

**Pædiatrics**

Steen, R. E., MD, FRCPI †Prof.

Doyle, E. E. †Lectr.

Rees, J. P. R., MB †Lectr.

**Pathology**

O'Meara, R. A. Q., ScD MD, FRCPI Prof.

Mullaney, Mrs. Joan M., MD BSc *N.U.I.*,

MA Reader

McCrea, P. C., MD *Belf.* (Appl. P.) †Lectr.

Pringle, S., MB MCh, FRCSI

(P. of Bone) †Hon. Lectr.

Clarke, N. P. G., MB BSc *N.U.I.* Lectr.

Stevens, Patricia M., MA BSc Asst.

**Pharmacology**Pennington, G. W., MB ChB *Liv.* Lectr.**Physic**

Synge, V. M., MD, FRCPI

Regius Prof.

**Psychological Medicine**

Bennet, E. A., MC, MA ScD MD DPM †Lectr.

Eustace, H. J., MB DPM †Lectr.

Moore, J. N. P., MD DPM, FRCPI †Lectr.

McCracken, T., MB †Lectr.

**Radiology**

McDonogh, C. L., MA MD †Lectr.

**Social Medicine**

Jessop, W. J. E., MSc MD, FRCPI Prof.

Pringle, R. B., MB BChir *Camb.*, FRCPI

(Indust. Med.) †Lectr.

McCormack, J. D., MC, Hon. MSc *N.U.I.*

(Control of Infectious Dis.) †Lectr.

Harbison, J. A., MD *Belf.*, MPH *Harv.*,

DPH (Pub. Health) †Lectr.

Barry, V. C., DSc *N.U.I.*

(Chemotherapy) †Lectr.

Carson, J. F., BA (Chem. Pathol.) Asst.

**Surgery**

..... †Regius Prof.

Henry, R. F. J., MB, FRCSI Clin. Prof.

McCollum, S. T., MB, FRCS †Asst

**Surgery, Orthopædic**

Chance, A., MCh MD, FRCS Hon. Prof.

**Surgery, Urological**

Lanc, T. J. D., MA MD MCh †Lectr.

**ORIENTAL LANGUAGES****Arabic**

Weingreen, Prof. J., MA PhD Lectr

**Hebrew**

Weingreen, J., MA PhD Erasmus Smith's Prof.

Baker, J., MA LLB PhD †Lectr

**Sanskrit and Comparative Philology**

Quin, E. G., MA Lectr.

**THEOLOGY**

(see also Oriental Languages)

**Biblical Greek**

Irwin, Rev. O. A. C., MA BD †Prof.

**Divinity**

Hartford, Rev. R. R., MA DD Regius Prof.

Vokes, Rev. F. E., MA BD *Camb.*

Archbishop King's Prof.

Armstrong, Rev. J. W., MA BD †Wallace Lectr.  
 Jenkins, Rev. R. G. F., MA BD (Bible) †Lectr.  
 Proctor, Rev. W. C. G., MA BD †Asst.  
 Greening, Rev. E. W., MA BD †Asst.  
 Salmon, Rev. T. N. D. C., MA BD †Asst.  
 Daunt, Rev. E. G., BD †Asst.

### Ecclesiastical History

Davies, Rev. G. C. B., MA DD *Camb. & Dub.* Prof.

### Pastoral Theology

Davies, Rev. G. C. B., MA DD *Camb. & Dub.* Prof.

## VETERINARY MEDICINE

### Clinical Veterinary Practices

Baxter, J. T. Prof.  
 Earnshaw, D. G., BSc *Edin.* (Surg.) Sr. Lectr.  
 Nunn, W. R., BA MVB Lectr.

### Clinical Veterinary Sciences

Sleith, F. St. G., MA Prof.  
 Hatch, C., MS *Iowa* (Parasitol.) Sr. Lectr.  
 Gallaher, M. A., MSc (Bacteriol.) Sr. Lectr.  
 Irfan, M., BVetSci *Panj.*, PhD *Lond.*  
 (Pathol.) Lectr.  
 (Bacteriol.) Lectr.

Forbes, T. J., BAgr *Belf.*

(Animal Husbandry) Lectr.  
 Smith, I. K. M., MSc *R'dg.* (Bacteriol.) Lectr.

### Pre-Clinical Veterinary Sciences

Nicholson, J. A., MA *Camb. & Dub.*,  
 PhD *Camb.*, MVetSci *N.U.I.* Prof.  
 Keating, J. P., BSc *Lond.* (Anat.) Sr. Lectr.  
 Murphy, O. M. G., MA *Camb.*, BSc *Edin.*  
 (Physiol.) Lectr.  
 Winder, F. A. G., MSc *N.U.I.*  
 (Biochem.) Lectr.  
 Jackson, N., BSc BAgr PhD *Belf.*  
 (Pharmacol.) Lectr.

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## ASSOCIATED COLLEGES

MAGEE UNIVERSITY COLLEGE, Londonderry (tel. : Londonderry 2145). President—W. G. Guthrie, MA *Edin.*, PhD *St.And.* Students of Magee Univ. Coll. may proceed to the degree of BA (Hons. or pass) of the univ. in the following subjs. : maths., classics, philos., mod. lit., anc. & mod. lit., mod. hist. & pol., econ. & pol. Such students must attend lectures at Trinity Coll. for at least 1 term in the 3rd & 4th yrs. Full details on applicn. to sr. tutor, Trinity Coll.

CHURCH OF IRELAND TRAINING COLLEGE, 4 Kildare Place, Dublin (tel. : 62946). Chaplain-Secretary—Rev. R. J. Ross, MA BD. The 2 yrs.' course of trg. for teaching in elementary schools is conducted partly at Trinity College, Dublin, and exempts from 1 yr. of BA course provided that the candidate is qualified in the 2 langs. required for matric.

VETERINARY COLLEGE OF IRELAND, Ballsbridge, Dublin (tel. : 684384).

## GENERAL INFORMATION

Trinity Coll. was founded and incorporated by royal charter in 1592 as 'mater universitatis', but no other coll. has been founded, so that 'Dublin Univ.' and 'Trinity Coll.' are practically interchangeable terms. The original charter granted very full legislative powers to the provost and sr. fellows, who constituted the bd. Legislation of Charles I took away many of these powers, which were reserved to the crown. By letters patent of 1911 the crown again granted wide powers of

making statutes to the corporation, subject to the consent of a majority of the fellows and the approval of the visitors.

The coll. occupies a large site in the middle of the city, with ample grounds for recreation and athletics.

CONSTITUTION. The general govt. of the coll. is in the hands of the bd. of Trinity Coll., which consists of the provost, sr. fellows, 4 reps. of jr.

fellows and 2 reps. of the non-fellow profs. The univ. council, formed by reps. from the bd. and various facs. and schs., has the right of nomination to most professorships, and in conjunction with the bd. can make changes in the curriculum, but otherwise has only advisory functions.

**REPRESENTATIVES IN SEANAD EIREANN.** W. B. Stanford, MA LittD; O. L. S. Skeffington, MA PhD; W. J. E. Jessop, MSc MD, FRCPI.

**INCOME (1959-60).** Total income, £437,628 (govt. grant, 30.9 per cent.; endowments, 20.7 per cent.; fees, 40.2 per cent.; payment for services, 4.8 per cent.; other, 3.4 per cent.).

The **LIBRARY** of Trinity Coll. has enjoyed since 1801 the privilege of receiving a copy of every book publ. in the U.K. It contains about 895,000 printed books and over 3000 MSS. incl. an important collection in Irish. The Lecky libr., based on the libr. of the historian W. E. H. Lecky, caters for the schs. of hist., econ. and legal sci. There are smaller librs. in the schs. of mod. langs., med., maths., nat. scis., geog., philol. and educn.

**MUSEUMS.** Zool. and comp. anat., geol. and mineral., anat., pathol., biblical antiquities. The zool. collection is one of the best in the country. Attached labs. offer all facilities for res. work.

**LABORATORIES.** Anat., bacteriol., biochem., bot., chem., engin., genetics, geol. (Iveagh), geog., histol., pathol., pharmacol., phys. (Iveagh), physiol., soc. med. (Moyné), zool.

**HERBARIUM** (rich in plants of N. America, India, S. Africa and Australia). **BOTANIC GARDENS**, 4 acres.

Ample facilities for clin. studies and many appts. for grads. are available in numerous **HOSPITALS**, incl. the well-known Rotunda.

**PROFESSIONAL SCHOOLS.** Agric., comm., div., educn., engin., for., law, music, phys., soc. studies, vet. med. Registrars—*agric.*—A. A. Pakenham-Walsh, MA; *comm.*—W. J. L. Ryan, MA PhD; *educn.*—Rev. E. A. Crawford, BD PhD; *engin.*—W. Wright, BSc PhD; *law*—F. E. Dowrick, MA; *mus.*—G. H. P. Hewson, MA MusD; *soc. studies*—Prof. F. B. Chubb, MA DPhil; *vet. med.*—Prof. W. J. E. Jessop, MSc MD, FRCPI.

**ADMISSION.** All applcns. must be made to the sr. tutor. The matric. exam., held 3 times a yr., comprises: (1) English composition & lit.; (2) one subj. from the group maths., addtnl. maths., phys., chem., hist., geog., biol.; (3) one subj. from the group French, German, Greek, Hebrew, Irish, Italian, Latin, Spanish; (4) any two other subjs. from (2) and (3). All candidates must present themselves either in maths. or in Latin. Candidates for admission to the honour schs. of classics, mental and moral sci., mod. lit., anc. & mod. lit., Celtic langs., mod. hist. & pol. sci., legal sci., and to the professional schools of div. and law, are required to qualify in Latin.

Exams. exempting from matric. incl.: Leaving Cert. of Dept. of Educn., Ireland; General Cert. of

Educn. awarded by approved examining body in England or Wales with at least 2 subjs. at advanced level (*see* p. 1360); matric. exam. of any Irish or U.K. univ. and of any other univs. recog. by the bd. of Trinity Coll. If such certs. do not cover all the prescribed subjs. of matric., the candidate must pass the Dublin matric. exam. in the subj. or subjs. in which he is deficient. Overseas students must satisfy the sr. tutor that they have an adequate knowledge of Engl., both spoken and written. They may obtain exemption from one European lang. other than Engl. on presenting evidence of having passed a recog. exam. in their own lang. Having qualified for matric., candidates must obtain admission from the sr. tutor, for which purpose they must produce evidence of character and of academic suitability. Financial guarantees are required from overseas students. All candidates for admission to the schs. of phys., nat. sci. and agric. must, in addn. to complying with the foregoing general requirements, be approved by the admission cttee. of the sch. concerned. Overseas candidates for admission to the honour sch. of legal sci. and to the professional sch. of law must be approved by the legal studies admission cttee. All candidates who have been admitted by the sr. tutor enter the coll. by paying the first coll. fee. The collegiate interests of all students on the coll. books are under the guardianship of the tutors. Students are normally assigned to tutors by the sr. tutor at entrance.

**ADMISSION TO ADVANCED STANDING.** Sp. regns. provide for the grant of credit for previous academic attainments at the univs. of Oxford and Cambridge, while students or grads. of other recog. univs. may be allowed credit *pro tanto* for 1 or 2 yrs. of the Dublin arts course.

**FIRST DEGREES.** Every student must take the BA (4 yrs.) before proceeding to any other degree, except in music. All students not in a professional sch. are required to attend arts lectures in every term, unless specially exempted (*e.g.* those earning their living by teaching). If exempted they are required to pass extra exams. Exemption<sup>1</sup> from attendance is never granted to students taking scientific subjects for the BA.

The **hons. BA**—known as *moderatorship*—can be taken in 11 different groups, viz.: maths.; classics; mental & moral sci.; nat. sci.; mod. lit.; anc. & mod. lit.; Celtic langs.; Oriental langs.; mod. hist. & pol. sci.; econ. & pol. sci.; legal sci. The course for each lasts 4 yrs.

The 4-yr. pass BA course in nat. scis. covers approx. the same ground as the 1st 3 yrs. of the honour course in nat. scis. In the last 2 yrs. the student studies 3 subjs. chosen from phys., chem., bot., zool., geol., geog.

Engl. composition is a compulsory subj. throughout the pass BA course in gen. studies; otherwise a wide freedom in choice of subjects is allowed. Candidates must present themselves in Engl. composition and 4 subjs. at the pass BA exam. For comm., div., engin., law and med.

students there is a sp. reduced arts course throughout.

The LLB course covers 2 yrs.; the MB BCH and BAO, 6 yrs.; BDentSc, 6 yrs.; BAI, 4 yrs. (optional 5th yr. in electr. and mech. engin.); AgrB or Agr(For)B, 4 yrs., of which 3rd and 4th are taken in Univ. Coll., Dublin (N.U.I.); BComm, 3 yrs.; MVB, 5 yrs., of which 2nd-5th are taken in the Vet. Coll. of Ireland. These courses are taken concurrently with the arts course. A course lasting less than 4 yrs. is taken concurrently with the last 3 or 2 yrs. of the arts course.

**HIGHER DEGREES.** A BA of the univ. of 3 yrs.' standing may be admitted MA. There is no exam. for this, nor is a thesis required.

The MLitt is obtained by a thesis, and candidates must have at least 1 yr.'s standing as BA. They must also, except by sp. permission of the bd., be grads. with 1st or 2nd class hons. of Dub. or of an approved univ.

The BD is obtained by an exam. open to all grads. in arts of 3 yrs.' standing; the DD is open to any BD, 8 yrs. after taking BA, and is awarded on a thesis or publd. theol. work.

For MusB, students must matric. in arts, and then pass an exercise or practical test and 2 exams. There are no formal courses of instructn.

The MSc and PhD involve postgrad. study and res. for 1 yr. and 2 yrs. respectively. Candidates for MSc must be sci. grads. with 1st or 2nd class hons. Candidates for PhD must, except by sp. permission of the bd., be grads. with 1st class hons.

A candidate for the ScD or LittD must have at least 3 yrs.' standing as BA, or have obtained MSc, MLitt or PhD, and submit important original work; for LLD must be of MA standing—a thesis or a publd. work is required; for MD must have taken the MB degree, be of MA standing; for MCh must be a BCh of 3 yrs.' standing; for MAO, a BAO of 2 yrs.' standing; a thesis or exam. is required for MD, an exam. for the MCh or MAO. A candidate for MDentSc must be a BDentSc of 3 yrs.' standing, and pass an exam.; for MAI must have practised his profession for 3 yrs. after graduating as BAI and present a thesis; for AgrM must be an AgrB of 3 yrs.' standing (thesis required). A candidate for Agr(For)M must be an Agr(For)B of 3 yrs.' standing (thesis required); for MComm must be a BComm of 2 yrs.' standing (thesis required); for MVM must be an MVB of 3 yrs.' standing (thesis required).

The MusD is granted after an exercise and exam.

The degrees of LLD, MusD, ScD, LittD and all masters' degrees may be awarded both as honorary and 'earned' degrees.

**DIPLOMAS.** Agric., 4 yrs.; soc. studies, pub. admin., Engl. studies (primarily for grads. of overseas univs.), Irish studies, 2 yrs.; bibl. studies, 1 or 2 yrs.; educn., mech. engin., 1 yr.; gynæcol. & obstet., 6 mos.; physiotherapy, 3 yrs.; geog., religious knowledge (women), hist.

of European painting, exam. only. *Licence* in engin. (first 2 yrs. of arts course and complete course in engin.). *Licence* in med., surg. and obstet. sci. *Testimonium* in div. (3 yrs.' course).

**FEES.** Matric., £6; coll. fee, covering all arts and sci. lectures, £60 p.a., with addnl. lab. fees in sci.; BA exam. fee, £6; BA degree fee, £9. Capitation fee for clubs and socs., £5. Med. course total (incl. coll., hosp. and degree fees), about £560; dental sci. total (incl. coll., hosp. and degree fees), about £710; engin. total (incl. coll. and degree fees), about £346; div. free for students in arts, £36 p.a. for others; comm. (incl. arts and degree fees), about £326.

Overseas students (i.e. from outside Ireland and Gt. Britain) pay a surcharge of 50 per cent. on all coll., tuition and lab. fees.

**APPOINTMENTS OFFICE.** For appts. officer, see 'Admin. and Other Staff', *above*. Tel.: Dublin 72941.

**EXCHANGE OF STUDENTS.** Exchanges of students are arranged with European countries. Visiting students give lectures, mainly on conversational French and German, and in return may attend any lectures free of charge and are given free bd. and lodging.

**STUDENTS FROM OTHER UNIVERSITIES.** Students from other univs., if recommended by their univ., may work for an academic yr. in Trinity Coll.; fee, £66. Students may also be admitted for 1 term; fees vary with the courses followed. Applicants to sr. tutor.

**ACADEMIC YEAR.** Oct. to early July, 3 terms of about 10 weeks each.

**INTERNATIONAL SUMMER SCHOOL.** Held in July, usually each yr. Applicants to registrar of the summer sch.

**RESIDENCE.** The coll. has accomm. for about 350 men students. Rent, £15 to £30 p.a. for single sets and proportionately for double sets of rooms; dinner in hall, £1:4s.:6d. a week. Trinity Hall (Warden: Anne E. R. Brambell, MA) accomm. 92 women; bd. and residence, about £50 per term of 10 weeks. There is also a hostel for div. students of the Church of Ireland.

**PUBLICATIONS.** *Calendar* (Oct.), 15s., incl. information about courses, etc.; annual supplement, 2s., results of exams., degrees conferred, etc.; sp. supplement (occasional), lists of past hons., benefactors, etc. Booklets on particular courses, etc., are available, free of charge, on applicn. to the sr. tutor. *Exam. Papers* of the several honour schs.; of the several professional schs.; of entrance exams. and prizes, and of pass arts, are publd. in pamphlet form at 2s. per set. *Hermathena* (twice yrly.), original papers in arts subjs., price 10s. *Trinity*, an annual record. *T.C.D., Trinity News* (students'), weekly in term.

*Histories, etc. A History of Trinity Coll., Dublin*, Vol. I, 1591-1892, by Constantia Maxwell; Vol. II, 1892-1945, by Kenneth C. Bailey (Dublin Univ. Press, 1946-47). *Trinity Coll., Dublin*, by

W. Macneile Dixon (1902). *Alumni Dublinenses*, 1593-1860 (2nd ed., 1935).

UNIVERSITY PRESS. The univ. press, housed

within the walls of the coll. in a bldg. erected for the purpose in 1734, is primarily the coll. printing-house, but it has also publ'd. many books, beginning with the *Prognostics* of Hippocrates (1736).

## THE YEAR 1959

**BENEFACTIONS.** Total value of *all* benefactions received : £12,000.

**NEW DEPARTMENTS AND CHAIRS.** Sch. of vet. med. (3 chairs) ; dept. of pharmacol.

**RETIREMENTS.** Prof. H. M. O. White (Engl.) ; J. N. Beaumont (Irish) ; C. B. Kennedy (accountant).

**RESIGNATIONS.** Dr. R. M. Acheson (soc. med.), apptd. sr. lectr. in soc. med., Lond. ; J. J. Byrne (econ.), apptd. to Irish civil service.

**DEATH.** Prof. W. R. Fearon (biochem.).

**HONORARY DEGREES.** *LLD*—Sir Hugh Beaver ; J. L. Montrose, prof. of law, Belf. ; Hon. W. H. Taft III. *ScD*—Dr. E. L. Hirst, prof. of org. chem., Edin. *MusD*—Lady Dorothy Mayer. *LittD*—S. Beckett, author. *AgrM*—J. N. Greene.

### Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	<i>Full-Time</i>	<i>Part-Time</i>
Men . . .	1607	228
Women . . .	661	71
<b>Total</b>	<b>2268</b>	<b>299</b>

Distribution by Faculties. *Agric.*, 39 ; *arts* (incl. natural sci.), 1563 ; *comm.*, 98 ; *div.*, 42 ; *dent.*, 24 ; *engin.*, 92 ; *law*, 43 ; *med.*, 494 ; *soc. studies*, 48 ; *vet. med.*, 31.

*Included in the figures above are :—*

Postgraduate students, 147.

New admissions, 688.

Students from other countries, 972. (Countries from which largest numbers came : Gt. Britain, 600 ; Nigeria, 48 ; United Arab Republic, 39 ; U.S.A., 37 ; Malaya, 34).

**DEGREES AWARDED (1958-59).** *Arts* : BA, 150 ; BA (hons.), 86 ; MA, 141 ; MLitt, 8. *Comm.* : BComm, 22. *Dent.* : BDentSc, 6. *Div.* : BD, 3, DD, 4. *Engin.* : BAI, 21 ; BAI (hons.), 7 ; MAI, 2. *Law* : LLB, 10 ; LLD, 1. *Med.* : MB, 64, MD, 4 ; MAO, 3. *Music* : MusB, 4 ; MusD, 1. *Sci.* : MSc, 1 ; ScD, 1. *Vet. med.* : MVl, 5. PhD (all facs.) : 10. *Total number of first degrees awarded*, 384.

**DIPLOMAS AWARDED (1958-59).** HDipEd, 35 ; DivTest, 9 ; DGO, 18 ; DPA, 34 ; DipSocStud, 14 ; DipIrishStud, 7 ; DipEnglStud, 20.

# NATIONAL UNIVERSITY OF IRELAND

Founded 1908

*Postal Address* : 49 Merrion Square, Dublin, Republic of Ireland

*Cables and Telegrams* : Natuniv, Dublin

*Telephone (Registrar)* : Dublin 67246-7

CHANCELLOR—E. DE VALERA, BA BSc PhD LL.D

VICE-CHANCELLOR (for biennium ending Dec. 31, 1962)—.....

PRO-VICE-CHANCELLORS—THE PRESIDENTS, UNIVERSITY COLLEGES OF DUBLIN AND GALWAY AND ST. PATRICK'S COLLEGE, MAYNOOTH

REGISTRAR—S. WILMOT, BA BComm LLD

## ADMINISTRATIVE AND OTHER STAFF

Chief Clerk: J. P. Kane, BComm. Accountants: J. Bourke, MComm. Other Statutory Clerks: P. J. Costello, MA BComm HDipEd DipPub Adm; T. I. Kelly, BComm; M. J. Tracy, BA BComm.

CONVOCATION. Chairman: D. Ó Modhráin, BA. Clerk: T. A. O'Rourke, BA BComm HDipEd.

## CONSTITUENT COLLEGES

UNIVERSITY COLLEGE, DUBLIN: *see* p. 1313.

UNIVERSITY COLLEGE, CORK: *see* p. 1318.

UNIVERSITY COLLEGE, GALWAY: *see* p. 1323.

## RECOGNIZED COLLEGE

ST. PATRICK'S COLLEGE, MAYNOOTH (tel.: Maynooth 261). President—Very Rev. G. Mitchell, DD. Founded 1795 by the Irish parliament 'for the educn. only of persons professing the Roman Catholic religion'. Since 1817 it has been devoted exclusively to the educn. of the clergy. In 1845 the bd. of trustees were incorporated by statute, and in 1899 were invested by the Holy See with authority to confer degrees in philos. (BPh, LPh, DPh), theol. (BD, STL, DD), canon law (BCL, LCL, DCL). In 1910, under the provisions of the Irish Universities Act, 1908, recognition was granted to the coll. as a recog. coll. of the National Univ. of Ireland in the facs. of arts (incl. philos.), sci. and Celtic studies.

Recognized teachers in approved degree courses. CHEM.—Rev. M. T. Casey, MSc PhD. CLASSICS—Rev. T. Finan, MA; Rev. W. Meany, MA

DD; Rev. G. Watson, MA STL. EDUCN.—Rev. P. Birch, MA PhD HDipEd. ENGL.—Rev. J. J. McMackin, MA; Rev. P. Connolly, MA Oxon. FRENCH—Rev. B. Devlin, MA DD. GERMAN—..... HIST., MOD. (INCL. IRISH HIST.)—Rev. T. Fee, LicHistSc Louvain, MA. IRISH—Rev. D. P. O'Flynn, MA; Rev. P. O'Sullivan, MA; Rev. P. Ó Fiannachta, MA. MATHS.—Rev. J. McConnell, MA DSc; Rev. J. McMahon, MSc PhD. MATHL. PHYS.—Rev. J. McConnell, MA DSc. MUSIC—Rev. C. H. O'Callaghan, LMus Rome, BA. PHILOS., MENTAL AND MORAL—Rev. J. D. Bastable, MA PhD; Rev. T. Crowley, DPh Maynooth, MA; Rev. D. O'Donoghue, DPh Louvain, MA; Rev. J. Newman, DPh Louvain, MA; Rev. C. Ó hUallacháin, BA PhD. PHYS., EXPER.—Rev. T. P. G. McGreevy, MSc. WELSH—Rev. P. Ó Fiannachta, MA.

## OTHER TEACHING STAFF

Profs. of Catholic Theology—Rev. P. J. Hamell, DD; Rev. P. Cremin, DD JUD Pontif. Athen. Lateran.; Rev. J. O'Flynn, DCL.

For staffs of Constituent Colleges, *see below*.



## GENERAL INFORMATION

Queen's Univ. in Ireland, founded in 1850 to link the Queen's Colls. of Belfast, Cork and Galway, was replaced in 1880 by a purely examining body, the Royal Univ. of Ireland. In 1908 the National Univ. of Ireland was establd., with Univ. Coll., Dublin, and the colls. hitherto known as Queen's at Cork and Galway as constituent colls. The Queen's Univ. of Belfast (in effect Queen's Coll., Belfast, raised to univ. rank) was establd. in the same yr., and the Royal Univ. was dissolved in 1909.

REPRESENTATIVES IN SEANAD ÉIREANN. Prof. H. L. Barniville, BA MD MCh; Prof. G. O'Brien, DLitt; Prof. P. M. Quinlan, MS PhD *Cal. Tech.*, BE MSc.

UNIVERSITY FACULTIES AND DEANS (Oct. 1, 1960–Sept. 30, 1963). *Arts (incl. philos.)*, Prof. J. Murphy; *Celtic studies*, Prof. T. Ó Máille; *comm.*, Prof. L. Ó Buachalla; *dairy sci.* (U.C. Cork only), Prof. C. Boyle; *engin. & archit.*, Prof. D. Ó Caoimh; *gen. agric.* (U.C. Dublin only), Prof. J. Carroll; *law*, Prof. P. Gallagher; *med.* (incl. *dent.*), Prof. S. Shea; *sci.*, Prof. C. Ó Brocháin; *vet. med.* (U.C. Dublin only), Prof. P. A. McGeady.

Classes are held in all facs. (with the 3 exceptions indicated above), at each of the constituent colls., and in arts, philos. and sociol., Celtic studies and sci. at Maynooth.

ADMISSION. The normal method of entry is by the matric. exam. of the univ. Students must pass in 5 subjects grouped as follows: (1) Irish (students born outside the 32 counties, or with home residence of parents outside Ireland for at least 3 yrs. prior to matric., may select another subject of the matric. programme in lieu of Irish), (2) English, (3) two of the following: maths., Latin, Greek, a modern continental lang., (4) a 5th subject of the matric. programme. Latin or Greek is necessary for the facs. of arts, med., law, vet. med.; a mod. continental lang. will suffice for the remaining facs. Maths. is not necessary for the facs. of arts and law, provided 2 langs. are selected from the group Latin, Greek, a mod. continental lang. Clear passes in subjects in the Leaving Cert. exam. of the Irish Dept. of Educn. or in the Sr. Grammar Cert. of the N. Ireland Dept. of Educn. are accepted as equivalent to passes in corresp. subjects at matric. exam. Other outside exams. are accepted for admission only on sp. applicn. to the pres. of a constituent coll., provided the candidate has passed in the requisite 5 subjects at equivalent standard.

FIRST DEGREES. 3 yrs.—BA (pass, hon.), BSc gen., BComm, BCL, BMus (4 yrs. at U.C. Dublin), BSocSc; 4 yrs.—BSc hon. (new regns.), BAgSc, BScDairying, BE; 5 yrs.—BArch, BDS, MVB; 6 yrs.—MB BCh BAO.

Classes are held in all facs. at each of the constituent colls. (except that classes in dairy sci. are held only at U.C. Cork, in gen. agric. and in vet.

med. only at U.C. Dublin) and in arts, philos. and sociol., Celtic studies and sci. at St. Patrick's Coll., Maynooth.

The hon. courses for BA, BSc are separate from the pass or general degree course. Normally 3 subjs. for BA pass, BSc gen. Normally 2 principal subjs. (with certain grouping restrictions) for BA hon.; normally 1 major and 1 minor subj. (with certain grouping restrictions) for BSc hon. For hon. courses available, see under constituent colls., below.

HIGHER DEGREES, conferred on grads. after approved postgrad. course of study under prescribed conditions in the univ. or in a constituent or recog. coll. LLB—3 terms after BCL; MA, MSc, MAgrSc, MArch, MComm, MScDairying, MEconSc, MB, MCh, MAO, MDS, MVM—at least 3 terms; grads. of other univs. may be granted *ad eundem* degree and allowed to proceed to certain master's degrees, e.g. MA, MSc, MEconSc; PhD—9 terms (reducible to 6), open to grads. of other univs. and other students of advanced standing; MD, DMus; DEconSc, DLitt, DLittCelt, LLD, DSc. The doctorate degrees (except PhD, MD, DMus) are obtainable only on publ. work.

Higher Degrees (usually doctorates) may be conferred on distinguished persons as honorary degrees.

DIPLOMAS. 1 yr.—DipEd, HDipEd (postgrad.), dipl. for teachers of deaf, DPH (for med. grads.), dipl. in child care (1 yr. after BSocSc or Dip SocSc); 2 yrs.—DipComm, DipDairySc, dipl. in Irish studies, dipl. in psychol., DipChemTech (U.C. Cork), DipLibTrg (1 yr. for grads.), DipSocSc (1 yr. for grads.), DipPubAdm (1 yr. for comm. grads.), DPM (2 yrs.' experience in psychiatric hosp.; for med. grads.); 3 yrs.—music teaching, physiotherapy; also DCH (for med. grads. with prescribed children's hosp. experience).

CERTIFICATES. 1 yr.—CertComm, jr. teaching qualif. (music), sr. teaching qualif. (music); 2 yrs., or 1 yr. after sr. teaching qualif. (music)—cert. in organ music.

FEES. Matric., £5 to £10. Combined exam. and degree, £13 to £29. Dipls., £5 to £8. Med. dipls., £5 to £11. For tuition fees, see separate colls.

ACADEMIC YEAR. Oct. to June: 3 terms of 10, 10 and 7 weeks. See also under constituent colls.

APPOINTMENTS BUREAUX: Univ. Coll., Dublin; Univ. Coll., Cork; Univ. Coll., Galway.

GRADUATE ASSOCIATION. N.U.I. Club, University House, 13a Lower Grosvenor Place, London, S.W.1.

PUBLICATIONS. *Calendar* (July), 5s. (plus postage); *Graduate and Sessional Lists* (triennially, 10s. plus postage).

## THE YEAR 1959

**HONORARY DEGREES.** *LLD*—S. MacGiollaráin, Irish folklorist and mod. Irish writer; C. A. Cusack, gen. manager of Clondalkin Paper Mills, Dublin. *DSc*—H. Shapley, distinguished American astronomer; A. F. Burstall, noted mech. engineer. *MD*—M. G. O'Malley, surgeon, former prof. of surg., U.C. Galway. *DEconSc*—Sir H. E. C. Beaver, managing dir., A. Guinness, Son & Co., Ltd. In connexion with Internat. Congress of Celtic Studies held in Dublin, July 1959: *DLittCelt*—Nora K. Chadwick, Anglo-Saxon scholar and early English historian; J. S. Marstrander, Norwegian Celtic scholar and philologist; J. Whatmough, American compar. philologist and dialectologist; J. W. Kurlowicz, Indo-European scholar and phonetician; H. Lewis, Welsh scholar and res. worker in Brythonic langs.

**DEGREES AWARDED (1958–59).** *Agric.*: BAgrSc,

77; MAgrSc, 7. *Archit.*: BArch, 17. *Arts* BA, 511; MA, 40; BMus, 2; BSocSc, 20. *Comm.*: BComm, 182; MEconSc, 7. *Dairy sci.* BScDairying, 8; MSdairying, 3. *Dent.*: BDS 35; MDS, 1. *Engin.*: BE, 150; ME, 2. *Law* BCL, 20; LLB, 2. *Med.*: MB BCh BAO, 128 MD, 6; MAO, 2. *Sci.*: BSc, 136; MSc, 20 DSc, 2. *Vet. med.*: MVB, 23. PhD (all facs.) 11. *Total number of first degrees awarded, 1309.*

**DIPLOMAS AWARDED (1958–59).** DCH, 9 DipComm, 7; DipDairySc, 39; HDipEd, 302 DipLibrTrg, 4; DipMusTeaching, 9; DPM, 1 DPH, 22; DipPubAdm, 25; DipSocSc, 20 DipChemTech, 4; DipinGaeilge, 5; Dipin Physiotherapy, 8.

**CERTIFICATES AWARDED (1958–59).** Jr. music qualif., 9; sr. music qualif., 8.

[Information compiled as at 15/9/60]

## UNIVERSITY COLLEGE, DUBLIN

Founded 1851 as Catholic Univ. of Ireland; chartered as constituent coll. of National Univ. of Ireland, 1908

*Postal Address*: Earlsfort Terrace, Dublin, Republic of Ireland

*Telephone*: 52116

**PRESIDENT**—M. TIERNEY, MA DLitt

**REGISTRAR**—Professor J. J. HOGAN, MA BLitt Oxon.

**SECRETARY AND BURSAR**—J. P. MACHALE, BA MComm

**LIBRARIAN**—ELLEN POWER, MA, FLA

## TEACHING STAFF

[† = Part-Time]

**Accountancy**

O'Brien, G. W., MA BComm

**Agriculture**, see below

**Anatomy**

Keenan, E., MD BCh BAO

Coakley, J. B., MB BCh BAO MSc

Prof.  
Coll. Lectr.

**Archæology, Celtic**

De Valera, R., MA PhD

2 U

**Architecture**

† Lectr.

FitzGerald, D. P. J. M., BArch, FRIAI

Prof.  
Lectr.

McDermott, M., BACh

**Botany**

Doyle, J., BA DSc

Clinch, Phyllis E. M., PhD DSc

Stuart, Mrs. Mary R., PhD

Prof.  
Lectr.  
Coll. Lectr.

**Chemistry**

Wheeler, T. S., DSc PhD

Prof. Riley, F. T., BA MSc

Prof.  
(Org. C.) Lectr.

Keane, J., MSc PhD	Lectr.	<b>Geography</b>	
Philbin, Mrs. Eva M., PhD DSc	Coll. Lectr.	Jones-Hughes, T., MA	Prof.
Doyle, W. P., PhD	Coll. Lectr.		
Ó Briain, C., MSc	Coll. Lectr.	<b>Geology</b>	
Gowan, J. E., PhD	Coll. Lectr.	Brindley, J. C., MSc, FGS	Prof.
<b>Classics</b>		<b>German</b>	
Tierney, J. J., MA	Prof.	Cunningham, Kathleen, MA PhD <i>Bonn</i>	Prof.
O'Meara, J. J., MA DPhil <i>Oxon.</i>	Prof.		
Nicol, D. M., MA PhD <i>Camb.</i>	Coll. Lectr.	<b>History, Early Irish (including Mediæval)</b>	
<b>Dentistry, see below</b>		Ryan, Rev. J., MA DLitt	Prof.
<b>Eastern Languages</b>		<b>History, Mediæval</b>	
Ryan, Rev. D., MA STL <i>Pontif. Athen. Lateran.</i>	†Prof.	Gwynn, Rev. A., MA BLitt <i>Oxon.</i>	Prof.
LSS <i>Rome</i>			
<b>Economics, see Pol. Econ.</b>		<b>History, Modern</b>	
<b>Education</b>		Williams, T. D., MA	Prof.
Ó Catháin, Rev. S., MA PhD	Lectr.	Kearney, H. F., MA <i>Camb.</i> , PhD	Coll. Lectr.
<b>Engineering, Chemical</b>		Morrall, J. B., BLitt <i>Oxon.</i> , PhD	Coll. Lectr.
O'Donnell, J. P., ME BSc	Prof.	Nowlan, K. B., PhD <i>Camb.</i> , MA	Coll. Lectr.
Walsh, J. J., ME	Coll. Lectr.	<b>History, Modern Irish</b>	
<b>Engineering, Civil</b>		Edwards, R. D., MA DLitt	Prof.
Hogan, M. A., DIC, BE DSc PhD	Prof.	<b>Irish, Early and Mediæval</b>	
Stephens, L. F., BSc ME	Coll. Lectr.	Shaw, Rev. F., MA	Prof.
Garland, T. A., BSc	Coll. Lectr.		
<b>Engineering, Electrical</b>		<b>Irish Language and Literature, Modern</b>	
Morrissey, J. J., ME MA	Prof.	de Bhaldraithe, T., MA PhD DLitt	Prof.
D'Alton, L. B., ME	Lectr.	Delargy, J. H., DLitt <i>Wales</i> , LittD <i>Dub.</i> ,	
Byrne, J. V., BE	Coll. Lectr.	MA (Irish Folk-lore)	Prof.
McGennis, E. A., BE BSc	Coll. Lectr.	Ó Cuiv, B., MA DLitt (Classical Irish)	Prof.
Ring, G. (Electro-Technol.)	Coll. Lectr.	Walsh, R. B., MA PhD	Coll. Lectr.
<b>Engineering, Mechanical</b>		<b>Italian and Spanish Languages and Literatures</b>	
Leahy, P., ME PhD	Prof.	McBride, P., DrenL <i>Madrid</i> , MA	Prof.
Drechsler, F. S., ME	Coll. Lectr.	<b>Law, see below</b>	
Timoney, S., ME	Coll. Lectr.	<b>Mathematics</b>	
McCraith, J. R., BE	Coll. Lectr.	Gormley, P. G., MA PhD	Prof.
Hanrahan, E. T., PhD		Timoney, J. R., MA	Lectr.
(Soil Mechanics)	Coll. Lectr.	Tinney, Mrs. Sheila C., MA PhD	Lectr.
McCabe, V. J.	Coll. Lectr.	Franklin, D., MSc (Statistical M.)	Lectr.
<b>English Literature</b>		O'Brien, S., MSc	Coll. Lectr.
Hogan, J. J., MA BLitt <i>Oxon.</i>	Prof.	Ingram, Rev. R., PhD	Coll. Lectr.
McHugh, R. J., MA PhD	Lectr.	Kennedy, M., MSc PhD	Coll. Lectr.
Reynolds, Lorna T., MA PhD	Coll. Lectr.	<b>Medicine and Surgery, see Medicine, below</b>	
Donoghue, D., MA PhD	Coll. Lectr.	<b>Microbiology, Industrial</b>	
<b>English, Old and Middle</b>		Küster, E., DRerNat	Prof.
Dunning, Rev. T. P., MA PhD	Prof.	<b>Music</b>	
<b>French and Romance Philology</b>		Hughes, A., DMus	Prof.
Roche, L. P., DèS <i>L Poitiers</i> , MA	Prof.	<b>Palæography and Late Latin</b>	
Cognon, E. P. MA	Lectr.	Bieler, L., DPhil <i>Vienna</i>	Prof.

**Philosophy**

Horgan, Rev. J. D., MA DD PhD  
(Metaphysics) Prof.

O'Doherty, Rev. E. F., MA BD  
PhD *Camb.* (Logic & Psychol.) Prof.

Martin, Rev. C. J., MA BD DPhil *Oxon.*  
(Ethics & Pol.) Prof.

**Physics, Experimental**

Nevin, T. E., DSc Prof.  
Nolan, P. J., DSc PhD (Geophys.) Prof.

Carroll, P. K., PhD Coll. Lectr.

Keeffe, D., PhD (on leave) Coll. Lectr.

Porter, N. A., PhD Coll. Lectr.

**Physics, Mathematical**

Keating, G., MSc Prof.

**Physiology and Histology**

McCarthy, E. F., MSc MD BCh BAO Prof.

Daly, S. D., MB BSc Coll. Lectr.

**Political Economy and National Economics**

O'Brien, G., BA DLitt BL Prof.

O'Donovan, J., MA BLitt DEconSc Lectr.

Meenan, J., MA Lectr.

Lynch, P., MA Lectr.

**Spanish**, see Italian and Spanish Langs. and  
Lits.

**Welsh**

Evans, D. S., MA BLitt *Oxon.* Prof.

**Zoology**

Humphries, Carmel, DSc PhD Prof.

**AGRICULTURE****Agricultural Botany and Bacteriology**

Gorman, M. J., BSc Prof.

**Agricultural Chemistry**

O'Sullivan, G. F., MSc Lectr.

Crowley, D., MSc Coll. Lectr.

**Agricultural Engineering**

O'Callaghan, J. R., BE MSc Coll. Lectr.

**Agricultural Zoology**

Carroll, J., DSc BAgSc Prof.

McMahon, E., BAgSc MSc Lectr.

**Agriculture**

Hussey, F. P., BAgSc BScEcon Coll. Lectr.

**Farm Management**

Ruane, J. B., MAgSc PhD Prof.

**Forestry**

Clear, T., BAgSc Prof.

**Horticulture**

Clarke, E., BAgSc PhD Prof.

**Plant Breeding**

Carroll, P. T., BAgSc MSc Coll. Lectr.

**Plant Pathology**

Loughnane, J. B., DSc BAgSc Lectr.

**Soil Science**

Gallagher, P. H., DSc Lectr.

Brickley, W. D., MAgSc Coll. Lectr.

**DENTISTRY**

Dunkin, F. J., MB BCh BDS (D. Surg.) Prof.

Gallivan, D., BDS (D. Mech.) Actg. Prof.

**LAW****Constitutional Law, International and Criminal Law and Procedure**

McGilligan, P., MA DEconSc †Actg. Prof.

**Roman Law, Jurisprudence and Legal History**

Henchy, J. A., MA LLB PhD †Prof.

**MEDICINE**

(for subjs. of first 2 yrs.—Anat., etc., see above)

**Biochemistry and Pharmacology**

Conway, E. J., DSc MD BCh BAO, FRs Prof.

Hingerty, D. J., MSc PhD Coll. Lectr.

Harrington, M. G., MSc PhD Coll. Lectr.

**Forensic Medicine**

Hickey, M. D., MD MSc, FRCPI Prof.

**History of Medicine**

Doolin, W., MB BCh BAO, FRCS Hon. Prof.

**Medicine**

O'Donovan, D. K., PhD *McG.*, MD MSc  
Sr. Prof.

Counihan, T. B., MD, MRCP Prof.

**Microbiology as applied to Medicine**

Meenan, P. N., MD DCP Prof.

**Midwifery and Gynæcology**

Cunningham, J. F., MD BCh MAO,  
FRCPI, FRCOG †Prof.

<b>Ophthalmology</b>		<b>VETERINARY MEDICINE</b>	
Lavery, F. J., MD MCh, DOMS	†Prof.	<b>Veterinary Anatomy</b>	
<b>Oto-Rhino-Laryngology</b>		Campbell, J. J., PhD MSc	Prof.
O'Doherty, E., MB MCh BAO	†Prof.	Collery, L., PhD	Lectr.
<b>Pædiatrics</b>		<b>Veterinary Hygiene and Animal Husbandry</b>	
Saunders, C. P., BSc MB BCh BAO	†Prof.	O'Connor, J.	Prof.
<b>Pathology</b>		<b>Veterinary Medicine and Meat Inspection</b>	
Harman, J. W., MD MSc	Prof.	Kelly, W. R., MVM	Prof.
<b>Pharmacology</b>		McErlean, B. A., MVM	Lectr.
Cannon, P. J., MB BCh BAO MSc	Prof.	<b>Veterinary Pathology and Bacteriology</b>	
<b>Psychiatry</b>		Mullaney, P. E., MVM	Prof.
Dunne, J., MD DPM	Prof.	Whitty, B. T., MSc	Lectr.
<b>Radiology</b>		Hirsch, E. A.	Lectr.
Geraghty, J. A., MD	†Prof.	Farrelly, B. T., MSc DVetMed	Lectr.
<b>Social and Preventive Medicine</b>		<b>Veterinary Physiology and Biochemistry</b>	
Murphy, T., MB BCh BAO BSc DPH	Prof.	McAleer, W. B., PhD DVSM	Prof.
Gallagher, J., MD DPH DCH	Coll. Lectr.	Glazier, D. B., MVB MS <i>Corn.</i>	Lectr.
<b>Surgery</b>		<b>Veterinary Surgery and Obstetrics</b>	
Fitzgerald, P., MD MCh MSc	Sr. Prof.	McGeady, P. A., MVetSc	Prof.
O'Malley, E., MCh, FRCSI	Prof.	Kealy, J. K., MVB	Lectr.
<b>Therapeutics</b>		Hanly, S., MSc	Lectr.
FitzGerald, O., MD MSc	Prof.	Staff of Assts. and Demrs. in all Depts.	

## ADMINISTRATIVE AND OTHER STAFF

Deans of Residence: Rev. P. Tuohy, BA; Rev. D. O'Neill, BA; Rev. J. Dunn, BA. Supt. of Women Students: Norah Greene, BSc HDipEd. Registrar for Medical School: Eileen McGilligan, BSc. Warden of Newman House: W. Leen. Director, Students' Health Bureau: M. Moriarty, MSc MD. Officers of Residence: Rev. D. P. Kennedy, University Hall; Rev. Dom F. O'Mahony, Balnagowan House; Rev.

Brother Gregory, De La Salle Hall; D. Cumings, MB BCh BAO, Nullamore Univ. Residence, Mrs. Mary Murphy, BA HDipEd; Mother Mary of Lourdes, Loreto Hall; Mother Mary Imelda Brophy, St. Mary's Dominican Hall; Nora Burke, MA, Directress, Northbrook Residence; Rev. Canon J. Armstrong; Rev. G. Ferguson, BA; Rev. S. G. L. Young, BA.

## GENERAL INFORMATION

The coll. had its origin in the Catholic Univ. of Ireland, founded in 1851. From 1851 to 1859 its rector was Dr. John Henry Newman. In 1854 its facs. of theol., philos., letters and sci. began their work and in 1855 the fac. of med. was formally opened in Cecilia St., where it continued to operate until 1932. The foundation of the Royal Univ. in 1879 led to a change of title (1883) by which what had originally been St. Patrick's House in the Catholic Univ. became the seat of Univ. Coll., Dublin. From 1883 until the passing

of the Universities Act, 1908, the coll. was administered by the Jesuit Fathers. Under that act and by royal charter of Dec. 2, 1908, it was re-establd. as a constituent coll. of the National Univ. of Ireland.

By the University Education (Agriculture and Dairy Science) Act, 1926, the Royal Coll. of Sci. and the Albert Agric. Coll. were transferred to Univ. Coll., Dublin, which was empowered to continue the functions formerly fulfilled by these instns.

**HOSPITALS.** 2 affiliated, 8 recog. for clin. instructn.; 2 fever; 2 children's; 3 midwifery; 1 ophthalmol. & oto-rhino-laryngol.; 1 mental diseases.

**ADMISSION.** Students not born in Ireland must apply to the pres. of the coll. for admission and (unless they have passed the matric. exam. of the N.U.I. or the Leaving Cert. of the Irish Dept. of Educn. or the Sr. Cert. of the N. Ireland Dept. of Educn.) for exemption from the matric. exam. Exemption will be granted only on production of evidence that candidates have passed an equivalent exam. in the requisite 5 subjects.

**FIRST DEGREES** (of N.U.I.). 3 yrs.—BA pass (3 subjs.), BA hons. (normally 2 subjs.), BSocSc pass, BComm, BCI., BSc pass (3 subjs.); 4 yrs.—BMus, BSc hons. (1 subj. with 1 minor subj. [for 3rd & 4th yrs.]), BE (chem., civil, electr., mech.), BAgSc; 5 yrs.—BDS, BArch, MVB; 6 yrs.—MB BCh BAO.

**HIGHER DEGREES** (of N.U.I.). 1 yr. min.—MA, MEconSc, LLB, MSc, MAgSc, MVM; 3 yrs. min.—PhD, MComm, MD, MCh, MAO, MDS, ME, MArch; 5 yrs. min.—DLitt, DLittCelt, DMus, DEconSc, LLD, DSc.

**DIPLOMAS.** 2 yrs., or 1 yr. postgrad.—DipSoc Sc, DipLibTrg, DipPubAdm; 1 yr.—Gaeilge; 3 yrs.—physiotherapy. *Postgrad.*: 1 yr.—HDipEd, teachers of the deaf, child care, DPH, DPM, DCH; 2 yrs.—psychol.

**FACULTIES AND DEANS** (1960–61). *Arts*, Prof. J. J. Tierney (Greek); *Celtic studies*, Rev. Prof. J. Ryan (early Irish hist.); *comm.*, Prof. G. O'Brien (pol. econ.); *engin. & archit.*, Prof. M. A. Hogan (civil engin.); *gen. agric.*, Prof. J. Carroll (agric. zool.); *law*, . . . . .; *med.*, Prof. E. Keenan (anat.); *philos.*, Rev. Prof. J. D. Horgan

(metaphys.); *sci.*, Prof. T. S. Wheeler (chem.); *vet. med.*, Prof. P. A. McGeady (vet. surg.).

**LIBRARIES.** 163,150 vols.

**LABORATORIES** (in main coll. bldgs. at Earlsfort Terrace, Upper Merrion St. and Glasnevin, and res. labs. at Ardmore, Merville, Belgrove and Woodview on Stillorgan Rd.). Agric. sci., engin., med., sci.

**FEES** (50 per cent. extra for overseas students, incl. U.K. students) for tuition, incl. coll. fees, annual, for primary degree courses: arts, comm., law, soc. sci.—£50; sci., engin., archit., agric.—£70; med. (incl. hosp.), whole period—£505 approx.; dent. (incl. hosp.)—£546; vet. med., whole period—£360.

**ACADEMIC YEAR.** Term dates, 1960–61 (except for fac. of med.): Michaelmas, Oct. 11–Dec. 16; Hilary, Jan. 10–March 16; Trinity, April 11–May 26. For med., Trinity term is April 11–June 15.

**RESIDENCE.** Hostels—*Men*: University Hall, Hatch St.; Balnagowan House, Palmerston Pk.; De La Salle Hall, Ely Pl.; Nullamore University Residence, Milltown. *Women*: Loreto Hall, 77 St. Stephen's Green; St. Mary's Dominican Hall, 49 St. Stephen's Green; Northbrook Residence, 27 Northbrook Rd. Students are subject to supervision by officers of residence.

**APPOINTMENTS BUREAU.** Sec., B. Farrell, MA.

**STUDENTS' HEALTH BUREAU.** The bureau is concerned with all aspects of the health of students, and the assistance of the bureau is freely available during office hours to any student who is anxious about his or her health.

**PUBLICATION.** *Calendar*, Nov., 10s.

## THE YEAR 1959

**NEW DEPARTMENTS AND CHAIRS.** Dept. & chair of indust. microbiol.; chair of for.; dept. & chair of forensic med.

**RETIREMENTS.** Prof. R. McKay (plant pathol.); Prof. E. J. Sheehy (animal nutrition); Dr. D. Deasy (gen. agric.); D. Slattery (agric. bot. & bacteriol.); Ellen Harnett (French); Dr. Eileen MacCarvill (Engl.); Mrs. Margaret MacEntee (Irish).

**DEATHS.** Prof. M. Caffrey (prof. of plant breeding); Prof. H. G. Murphy (prof. of hist. of Celtic lit.); A. J. O'Connell (former sec. & bursar); Prof. F. J. O'Dea (former prof. of dent. mechanics); Prof. G. O. Sherrard (former prof. of hort.).

### Statistics

#### STUDENT NUMBERS, 1959–60

(as at the beginning of the academic year)

	Full-Time	Part-Time *
Men	3337	217
Women	1126	88
Total	4463	305

**Distribution by Faculties.** *Agric.*, 308; *archit.*, 92; *arts*, 1642; *comm.*, 563; *engin.*, 374; *law*, 122; *med.* (incl. dent.), 781; *sci.*, 589; *vet. med.*, 297. Total: 4768.

*Included in the figures above are:—*

Postgraduate students, 359.

\* 'Part-Time' applies to students taking dipl. and cert. courses, occasl. students and students attending law courses. The term does not apply to students attending evg. degree courses (who are included among full-time students).

**New admissions, 1250.**

Students from other countries, 339. (Countries from which largest numbers came : United Kingdom, 53 ; Malaya, 46 ; U.S.A., 46 ; Trinidad, 35 ; Nigeria, 32).

**DEGREES AWARDED (by N.U.I.) (1958-59).**  
*Agric.*: BAgrSc, 76; MAgrSc, 7. *Archit.*:  
 BArch, 17. *Arts*: BA, 309; MA, 22; BMus, 3;  
 BSocSc, 20. *Comm.*: BComm, 106; MEconSc,

6. *Engin.* : BE, 128. *Law* : BCL, 28 ; LL.B, 8.  
*Med.* : MB BCh BAO, 77 ; BDS, 21 ; MD, 3.  
*MCh*, 2. *Sci.* : BSc, 90 ; MSc, 5 ; DSc, 2.  
*Vet. med.* : MVB, 23. *PhD* (all facs.) : 8. *Total*  
*number of first degrees awarded*, 808.

**DIPLOMAS AWARDED (1958-59).** HDipEd, 167;  
DipLibTrg, 4; DipMusTeaching, 2; DipSocSc,  
19; DipGaeilge, 5; DipPubAdm, 22; DPH,  
19; DCH, 16; DPM, 1.

*[Information compiled as at 20/12/60]*

## UNIVERSITY COLLEGE, CORK

Founded 1845 as Queen's College, Cork ; chartered as constituent coll. of  
National Univ. of Ireland, 1908

**Postal Address : Cork, Republic of Ireland**

**Cables and Telegrams : University College, Cork, Ireland**

**Telephones :** (Registrar), Cork 26275 ; (Secretary), Cork 20711 ; (all Depts.), Cork 21371

**PRESIDENT—H. ST. J. ATKINS, MSc Hon. DSc**

**REGISTRAR—Professor T. Ó CIARDHA, PhD *Lond.*, MA**

**SECRETARY AND BURSAR—J. HURLEY, MA BComm**

LIBRARIAN—D. O'KEEFE, MA

## TEACHING STAFF

**[† = Part-Time]**

## Accounting and Business Administration

**Clifford, T. J., MComm**  
**Daly, H. J., BComm, FSAA**

†Lectr.  
†Asst.

**Agriculture, see Dairy Science**

**Anatomy**, see also Dent. Anat.

**MacConaill, M. A., MB BCh BAO DSc *Belf.***

Fitzgerald, M. J. T., MB BCh BAO	Prof.
Hamilton, W. D., BSc MD MCh BAO	Lectr.
Law, Mrs. Mary E., MSc	†Asst.

Gurr, E., FRIC (Histol. & Hæmatol.) Asst.  
†Res. Asst.

## Ancient Classics

**Fogarty, J. P., MA PhD HDipEd** Prof.  
**Richmond, J., BA PhD Lond.** Lectr.

## Archæology

O'Kelly, M. J., MA Prof.

## Biochemistry

<b>Brady, T. G., PhD</b> <i>Munich, MSc</i>	<b>Prof.</b>
<b>Tully, E. R., MSc</b>	<b>Asst.</b>

## Botany

**Roberts, O. M., MSc PhD**  
 \*\*\*\*\*

Prof.  
Asst.

## Celtic Languages and Philology

**Caomhánach, S., MA PhD**

Prof.

## Chemistry

Scott, F. L., PhD DSc, FRIC  
Ó Cinnéide, R., MSc  
Teegan, J. P., PhD *Camb.*, MSc

O'Donovan, D. G. MSc PhD (Phys. C.) Lectr.  
Lectr.  
Asst.

**O'Donovan, D. G., MSc PhD**

**Dairy Science, see below**

**Dentistry, see below**

**Economics, see also Econ. Theory**

**Busteed, J., MComm** Prof.  
**O'Mahony, D. P., MA PhD BL** Lectr.

## Economic Theory

Larkin, Rev. W. P., PhD *Lond.*, MA  
DEconSc †Prof.

**Education**

Duggan, Lucy, MA PhD HDipEd Prof.  
O'Callaghan, Nora M., MA HDipEd Asst.  
†Lectr.

**Engineering, Civil**

Dooce, J. C. I., MSc *Iowa*, BSc ME Prof.  
Coffey, P., ME Assoc. Prof.  
Dillon, E. C., ME PhD Lectr.  
..... Lectr.  
O'Halloran, J. F., MSc *Belf.*, BE Asst.

**Engineering, Electrical**

Dillon, C. T. G., ME Prof.  
McGrath, F. A., BE †Lectr.  
Sexton, M. C., PhD *Liv.*, MSc Lectr.  
Lectr.

**Engineering, Mechanical**

Pollock, H. P., BE Lectr.

**English**

MacCarthy, Bridget G., MA PhD HDipEd Prof.  
Breatnach, R. P., MA PhD Lectr.  
McAlindon, T. E., MA Asst.

**French, see also Romance Langs.**

O'Flaherty, Kathleen M. J., MA PhD Lectr.  
Servais, Yvonne, Lèsl *Paris*, MA PhD Asst.

**Geography**

O'Connell, C. S., DipGeog *Lond.*, MA BComm HDipEd Prof.  
Asst.

**Geology**

Nevill, W. E., BA PhD *Dub.* Lectr.

**German**

Boyle, Mrs. Mary, MA Prof.

**History, see also Irish Hist.**

Hogan, J., BA DLitt Prof., Hd. of Dept.  
Flanagan, Rev. J. G., MA LLB (Palæog. & Eccles. H.) †Lectr.  
Roche, K. F., MA Asst.  
Murphy, J. A., MA HDipEd Asst.

**History of Modern Irish Literature**

Ó Cuilleánáin, C., MA PhD HDipEd Prof.

**Hygiene and Public Health, see Medicine****Irish History**

Pender, S., MA Prof.  
Gwynn, D. R., BA DLitt †Res. Prof.

**Irish Language and Literature, see also Hist. of Mod. Irish Lit.**

Breatnach, R. A., MA Prof.  
Ó Tuama, S., MA PhD Lectr.

**Irish Music**

Neeson, S., BA *Belf.* †Lectr.

**Italian, see also Romance Langs.**

Cali, P., LenL *Milan* Asst.

**Law**

Ryan, E. F., MA *Camb.*, BL (Common L., Real Prop. & Equity) †Prof.  
Murphy, B. J., BA LLB (Jurisp., Roman L. & Pers. Prop.) †Prof.  
Gleeson, E., MA BL †Asst.

**Mathematical Physics**

Quinlan, P. M., MS PhD *Cal. Tech.*, BE MS Prof.  
Hart, V. G. M., MSc PhD Lectr.  
Lectr.

**Mathematics**

Kennedy, P. B., MSc PhD Prof.  
Barry, P. D., PhD *Lond.*, MSc Actg. Lectr.  
O'Shea, Siobhán, MSc Asst.

**Medicine, see below****Music, see also Irish Music**

Fleischmann, A. G., MA BMus Prof.

**Nuclear and Theoretical Physics**

†Prof.

**Pathology, see also Dent. Pathol., below**

O'Donovan, W. J., MB BCh BAO BSc DPH Prof.  
Coakley, R. D., MD BCh BAO Lectr.  
Daly, R. A., MSc *Dub.*, LM †Lectr.  
Hayes, J., MD BCh BAO, MRCP1 †Clin. Asst.  
O'Neill, R. B., MB BCh BAO †Clin. Asst.

**Pharmacy, see Medicine, below****Philosophy**

O'Mahony, Very Rev. J. E., PhD *Louvain*, MA DLitt Prof.  
Good, Rev. J., DPh *Innsbruck*, DD *Maynooth*, BA (Gen. P.) Lectr.  
Cashell, Rev. M. V., PhD *Louvain*, MA †Asst.

**Physics, Experimental**

McHenry, J. J., MA *Camb.*, DSc, FIP Prof.  
Fahy, E. F., PhD *Chic.*, MSc Lectr.  
O'Sullivan, Margaret M., MSc HDipEd Asst.



**Physiology**

Sheehan, J. D., MD BCh BAO BSc,  
MRCP

.....  
Hall, W. J., MB BCh BAO

Prof.  
Lectr.  
Asst.

**Psychology**

Dempsey, Rev. P., PhD *Montr.*, MA

Lectr.

**Public Administration**

Haslam, R. B., BComm

†Asst.

**Romance Languages**, see also French and Italian

Byrne-Costigan, Mrs. Ethna, Dèsl *Paris*, MA

Prof.

**Sociology**

O'Leary, Rev. J., MA

Lectr.

**Spanish**

.....  
Healy, J. G., MA PhD  
Ware, N. J., MA

Prof.  
Lectr.  
Asst.

**Statistics**

Ó Ciardha, T., PhD *Lond.*, MA

Prof.

**Theology**

Good, Rev. J., DPh *Innsbruck*, DD *Maynooth*, BA

†Prof.

**Zoology**

O'Rourke, F. J., MB BCh BAO MSc PhD  
Murphy, Marjorie M., MSc HDipEd  
.....

Prof.  
Asst.  
Asst.

**DAIRY SCIENCE****Agriculture**

Boyle, C., MA *Wis.*, DIC, PhD *Lond.*

Prof.

**Dairy Accounting and Dairy Economics**

Murphy, M., MA BComm

Prof.

**Dairy and Food Microbiology**

Grimes, M., MSc PhD *Iowa*  
Mulcahy, M. J., MScDairying

Actg. Prof.  
Asst.

**Dairy Chemistry**

Pyne, G. T., MSc PhD, FRIC  
MacSweeney, D. T., MSc  
McGann, T. C. A., MSc

Prof.  
Lectr.  
Asst.

**Dairy Engineering**

McGrath, F. A., BE  
Synott, E. C., BE

Prof.  
Asst.

**Dairy Technology**

O'Shea, M. J., BA MScDairying PhD  
Foley, J., MScDairying

Prof.  
Asst.

**DENTISTRY****Dental Anaesthesia**

O'Sullivan, J. F., MB BCh BAO DPH

†Asst.

**Dental Anatomy**

McHale, J. A., BDS

†Asst

**Dental Materials and Mechanics**

Power, J. J., BDS

†Lectr.

**Dental Pathology**

Gamble, R. G., BDS

†Lectr.

**Dental Prosthetics**

Scher, I. B., MB BCh BAO BDS,  
FDSRCSed

†Prof

**Dental Radiology**

Barrett, A. V., BDS

†Asst.

**Dental Surgery**

Butler, N. P., MDS, FDSRCS  
Collins, B., BDS

(Operative D.S.) †Prof.  
†Lectr.

**Orthodontics**

Dockrell, R. B., MA MB BCh BAO  
MDentSc *Dub.*

†Lectr.

**Periodontology**

Russell, J. G., MB BCh BAO BDS,  
FDSRCS

†Lectr.

**MEDICINE**

(for Anat., Biochem., Pathol., Physiol., see above)

**Hygiene and Public Health**

Saunders, J. C., MD BCh BAO DPH

†Prof.

**Medical Ethics**

O'Sullivan, Rev. J. J., DD *Maynooth*,  
BSc HDipEd

†Asst.

**Medical Jurisprudence**

Riordan, M. J., MB BCh MAO, FRCSI

†Lectr.

**Medicine**

Whelton, A., BA MD BCh BAO, FRCPI

†Actg. Prof.

Dillon, V. J., MD BCh BAO BSc, MRCPI

†Lectr.

Murphy, J., MD BCh BAO DPH

†Lectr.

Corridan, J. P., MB BCh BAO DPH

Fitzpatrick, P. F., MB BCh BAO BSc DPH

McMahon, M. F., MD BCh BAO

†Asst.  
†Asst.

## Mental Diseases

Honan, B. F., DPM

†Lectr.

## Obstetrics and Gynaecology

Kearney, W., MD BCh MAO, FRCOG

†Prof.

Kearney, J. B., MD BCh MAO LM

†Lectr.

Sutton, R. C., MA MB BCh BAO LM *Dub.*,  
FRCPI

†Lectr.

O'Donoghue, R., MB BCh MAO

†Clin. Tutor

O'Connor, T. C., MB BCh MAO

†Clin. Tutor

## Ophthalmology

O'Hea-Cussen, V., DO *Oxon.*, MB BCh  
BAO

†Prof.

## Pædiatrics

Barry, R. G., DCH *Lond.*, MD BCh BAO,  
MRCP

†Lectr.

1 Clin. Tutor

## Pharmacology

O'Mahony, D. P. J., MB BCh BAO BSc

Actg. Lectr.

## Pharmacy

McCarthy, D. F., MB BCh MAO

†Asst.

## Surgery

Kiely, P., BSc MD MCh BAO, FRCS

†Prof.

Kiely, J., MD MCh BAO, FRCSEd

†Lectr.

Kelly, J., MB BCh BAO, FRCS

†Lectr.

Donovan, E., MD MCh MAO

†Lectr.

O'Connell, St. J. G., MB BCh BAO,

FRCSEd (Orthopædic S.)

†Lectr.

.....

2 Demrs.

## Therapeutics

Loughnan, O. T. D., MD BCh BAO,  
MRCP

†Lectr.

## ADMINISTRATIVE AND OTHER STAFF

ASSISTANT SECRETARY: D. L. Whyte, BA  
BComm.

APPOINTMENTS BUREAU. Sec.: Mary Manning,  
BComm.

OFFICERS OF RESIDENCE. Catholic—Dean of  
Residence: Rev. J. J. O'Sullivan, DD *Maynooth*,  
BSc HDipEd; Asst. Officers of Residence: Mrs.  
Kate Madden, BComm HDipEd, Rev. Mother  
of La Retraite Hostel, Prof. C. Ó Cuilleánáin, MA  
PhD HDipEd, Rev. J. O'Leary, MA. Church  
of Ireland—Dean: Rev. C. W. C. Quin, BD;  
Asst. Officer: Mrs. Jane Hingston. Presby-

terian—Dean: Rev. T. Blakely, MA ThM BD;  
Asst. Officer: Mrs. Elizabeth M. Farrington,  
MA HDipEd. Methodist—Dean: Rev. F. E.  
Hill, BA. Warden, Honan Hostel—Prof. C. Ó.  
Cuilleánáin, MA PhD HDipEd.

STUDENTS' HEALTH SERVICE. Sec.: Mrs. Maev  
Morrogh, MB BCh BAO DPH.

CORK UNIVERSITY PRESS. Manager: Prof. D. R.  
Gwynn, BA DLitt.

ADULT EDUCATION DEPT. Dir. of Studies:  
Rev. J. O'Leary, MA.

## GENERAL INFORMATION

Queen's Coll., Cork, was founded in 1845 and  
opened to students in 1849. A new charter was  
granted to the coll. on Dec. 2, 1908, in which its  
name was changed to Univ. Coll., Cork. On the  
same date the coll. became a constituent coll. of  
the newly incorporated National Univ. of Ireland.

INCOME. Total for yr. ended June 30, 1960:  
£303,000 (govt. grants, 62·8 per cent.; fees, 21·9  
per cent.; coll. funds, 13·7 per cent.). Also govt.  
capital grant, £9000.

FACULTIES AND DEANS (academic yr. 1960-61).  
*Arts*, Prof. S. Pender (Irish hist.); *Celtic studies*,  
Prof. S. Caomhánach (Celtic langs. & philol.);  
*comm.*, Prof. J. Busteded (econ.); *dairy sci.*, Prof.  
C. Boyle (agric.); *engin.*, Prof. P. Coffey (civil

engin.); *law*, Prof. E. F. Ryan; *med.*, Prof. J. C.  
Saunders (hyg. & pub. health); *sci.*, Prof. J. J.  
McHenry (exper. phys.).

LIBRARIES (incl. depl. libraries). Approx.  
470,000 vols.

LABORATORIES. Anat., biochem., bot., chem.,  
civil engin., dairy chem., dairy engin., dairy  
microbiol., dairy technol., electr. engin., geol.,  
pathol., pharmacol., phys., physiol., statistics,  
zool. Exper. creamery. FIELD STATION (zool.)  
at Lough Ine, Skibbereen, Co. Cork.

MUSEUMS. Nat. hist., med., Cork public  
museums. Bot. gdns. and plant houses. Coll.  
farm.

**CRAWFORD OBSERVATORY.** Equatorial telescope (8 in.) and transit telescope (5 in.).

**TEACHING HOSPITALS.** North Charitable Infirmary and County & City of Cork General H., South Infirmary and County of Cork General H., St. Finbarr's H. (general, fever, midwifery), St. Mary's Orthopædic H., Mercy H. (general, ophthalmic, aural), Cork Mental H., Cork Eye, Ear & Throat H., Erinville H. (County & City of Cork Lying-in H.), Cork Dental H.

**UNIVERSITY ENTRANCE REQUIREMENTS.** Matric. of N.U.I., or its equivalent. Sp. fac. requirements: *engin.*—entrance exam. in maths. Non-Irish-born students must also apply to the pres. of the coll. for admission.

**NON-MEMBERS OF UNIVERSITY** may be admitted to classes if permission is granted by the pres. of the coll.

**FIRST DEGREES** (of N.U.I.). 3 yrs. (separate pass and hon. courses)—BA, BSc. Normally 3 subjs. for BA or BSc pass degree. Normally 2 principal subjs. for BA hon. degree, with certain grouping restrictions. Subjs. available: Irish, Engl., French, German, Greek, Italian, Latin, Spanish, Welsh, archæol., econ., geog., hist., mathl. phys., maths., philos., psychol., sociol., statistics. Normally 1 principal and 1 subsidiary subj. for BSc hon. degree. Principal subjs. for BSc hon.: biochem., bot., chem., exper. phys., geol., mathl. phys., maths., physiol. (4 yrs.), psychol., statistics, zool. Regns. for BSc are being changed to provide for BSc (general) in 3 yrs., with 4th yr. for hon. 3 yrs. (pass and hon. on same course)—BCL, BComm, BMus. 4 yrs. (pass and hon. on same course)—BE (civil or electr.), BScDairying. 5 yrs. (pass and hon. on same course)—BDS. 6 yrs. (pass and hon. on same course)—MB BCH BAO.

**HIGHER DEGREES** (of N.U.I.). 1 yr. min.—LLB, MA, MEconSc, MEngSc, MSc, MSc Dairying. 3 yrs. min.—MComm, ME, MCh, MAO, MDS, MD, PhD. 5 yrs. min.—DLitt, DLittCelt, DEconSc, DSc, DMus, LLD.

In certain circumstances grads. of other univs. may be admitted to higher degrees. Courses of instrcn. are available for the MA or MSc degree in mathl. phys., maths. and stats.; also for LLB degree.

**DIPLOMAS.** *Univ. dipls.*: 1 yr.—HDipEd (postgrad.); 2 yrs.—dairy sci., comm., chem. technol. *Coll. dipls.*: obstet. (1 yr. postgrad.), comml. educn. (1 yr. from BComm).

**STUDY LEAVE.** No standard practice. Leave-of-absence granted to members of staff, who make own arrangements, provided coll. satisfied with purpose of leave and with arrangements for teaching during absence.

**ANNUAL FEES.** First degrees—arts, comm., law or music, £45; dairy sci., £60; *engin.* or

sci., £65. *Med.*: pre-med., £65; 1st or 2nd yr., £70, 3rd yr., £65; 4th yr., £45; 5th yr., £35. *Clin. and hosp. fees*—conjoint hosp. ticket (3 hosp.): 3rd yr., £15; 15s.; 4th or 5th yr., £33. *Spec.*—anæsth., £2; 2s.; post-mortems, £2; fever, £3; 3s.; mental hosp. (3 mos.), £4; 4s.; ophthalmic hosp. (3 mos.), £5; 5s.; maternity hosp. (6 mos.), £12; 12s. *Dentistry*: pre-dent., £65; 1st or 2nd yr., £70; 3rd yr., £40; 4th yr., £35. *Dent. hosp. fees*—2nd yr., £47; 12s.; 3rd or 4th yr., £75. Equipment & instruments, £35 total approx.

Higher degrees—LLB, £45; MSc, MSc (Dairying), MEngSc, ME, £35. All others, £25.

Diplomas—HDipEd or dipl. in comml. educn., £30; dipl. in dairy sci., £28 each yr.; dipl. in comm. or in chem. technol., £1 each yr.

Foreign students pay 50 per cent. in excess of the above fees.

**ACADEMIC YEAR.** Term dates, 1960-61: Michaelmas, Oct. 1-Dec. 31; Hilary, Jan. 1-March 31; Trinity, April 1-June 30. Christmas and Easter recesses: med. and dent., Dec. 23-Jan. 1 (incl.) and March 31-April 3 (incl.); all others, Dec. 17-Jan. 9 (incl.) and March 18-April 10 (incl.).

**ADULT EDUCATION.** The adult educn. cttee., in co-operation with local cttees. of vocational educn., conducts various courses in adult educn. and arranges for lectures and conferences. Coll. dipl. in soc. & econ. sci. (2 yrs.); coll. dipl. in soc. study (2 yrs.); coll. dipl. in rural & soc. sci. (2 yrs.); coll. dipl. in soc. & home sci. (2 yrs.). These dipls. are open only to pt.-time adult educn. students.

**GRADUATES' ASSOCIATIONS.** Univ. graduates' club, Cork (non-official); N.U.I. graduates' assocn.

**STUDENT RESIDENCES.** Honan Hostel, College Rd., Cork (approx. 38 men students), fee 110 gs. per session; La Retraite, Cork (approx. 30 women students), fee from 100 gs. per session. General system of licensed lodgings. Students subject to supervision by officers of residence.

**UNIVERSITY MILITARY FORMATION.** F.C.A. (Fórsa Cosanta Áitiúla).

**STUDENTS' HEALTH SERVICE.** Available to all students. Med. exam. compulsory for all freshmen.

**ATHLETIC FACILITIES.** Athletic and cycling club, assocn. football, basketball, boxing, camogie, hurling, Gaelic football, golf, lawn tennis, rowing, rugby football, swimming, women's hockey. Coll. athletic grounds, 15 acres. 20 student socs.

**PUBLICATIONS.** Annual: *Calendar* (3s.), *Cork Univ. Record*, *Quarryman* (students' magazine), *Entrance Scholps.*, *Regns. & Courses*, *Univ. Exam. Papers*.

## THE YEAR 1959

NEW CHAIR. Dent. surg.

RETIREMENT. Prof. J. Reilly (chem.).

DEATH. Prof. M. A. Roche (dent. prosth.).

New admissions, 394.

Students from other countries, 49. (Countries from which largest numbers came : Africa, 21 ; U.S.A., 11 ; W. Indies Fed., 5).

## Statistics

## STUDENT NUMBERS, 1959-60

(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	962	129
Women . . .	342	31
Total . . .	1304	160

Distribution by Faculties. *Agric.*, 14 ; *arts*, 541 ; *comm.*, 176 ; *dairy sci.*, 87 ; *engin.*, 135 ; *law*, 12 ; *med.* & *dent.*, 219 ; *sci.*, 280. Total: 1464.

Included in the figures above are :—  
Postgraduate students, 121.

DEGREES AWARDED (by N.U.I.) (1959-60).  
*Arts* : BA, 95 (incl. 41 hon.); BMus, 4 ; MA, 12 (incl. 9 hon.); PhD, 2. *Comm.* : BComm, 41 (incl. 3 hon.); MComm, 1. *Dairy sci.* : BSc Dairying, 9 (incl. 4 hon.); MScDairying, 2. *Engin.* : BE, 29 (incl. 9 hon.); PhD, 1. *Law* : BCL, 1 ; LLB, 1. *Med.* : MB BCh BAO, 24 (incl. 1 hon. MB, 18 hon. BCh, 8 hon.); BDS, 14 ; MDS, 1. *Sci.* : BSc, 35 (incl. 18 hon.); MSc, 5 ; PhD, 1. Total number of first degrees awarded, 252.

DIPLOMAS AWARDED (by N.U.I.) (1959-60).  
HDipEd (postgrad.), 87 (incl. 34 hon.); Dip DairySc, 45 ; DipComm, 7 ; DipChemTech, 4.

[Information compiled as at 20/9/60]

## UNIVERSITY COLLEGE, GALWAY

Founded 1845

Postal Address : Galway, Republic of Ireland

Telephone : Galway 2322

PRESIDENT—M. Ó TNUTHAIL, DSc

REGISTRAR—Professor J. MITCHELL, BSc BE, FGS

BURSAR—Professor P. LARKIN, BA HDipEd

## TEACHING STAFF

[† = Part-Time]

## Anatomy

Shea, S., MD BCh BAO  
Doyle, J. F., MB BCh BAO  
3 Assts.†, 6 Demrs.

Killeen, F., MA Lectr.  
O'Suilleabháin, Rev. P., BA Asst.

## Economics, Commerce and Accountancy

Ó'Buachalla, L., MComm HDipEd Prof.  
Ó'Nualláin, L., BA BComm DEconSc Lectr.

## Archæology, Celtic

Duignan, M. V., MA HDipEd

Prof. Education  
Larkin, P., BA HDipEd Prof.  
MacFhinn, Rev. P. E., MA DD HDipEd

## Celtic Languages

deBurca, S., MA PhD

Lectr. (in Irish)  
MacCabe, Br. L., BA HDipEd Asst.

## Chemistry

O'Colla, P., MSc PhD  
Ó hEocha, C., MSc PhD  
Lee, Elizabeth, MSc  
MacCraith, D., MSc  
6 Assts.†, 4 Demrs.

Prof. Engineering, Civil  
Lectr. O'Keeffe, J. D., BE PhD Prof.  
Asst. O'Lochláinn, P., BE MSc Lectr.  
Asst. Tobin, P., ME Asst.  
Lee, G. J., DIC, BE Asst.

## Classics, Ancient

Heavey, Margaret M., MA HDipEd

Prof. Engineering, Electrical  
Ryan, E. R., BSc ME Asst.

**English Language and Literature**

Murphy, J., MA PhD Prof.  
 Diskin, P., MA Asst.  
 Brennan, P., BA HDipEd Asst.

**Geology and Geography**

Mitchell, J., BSc BE, FGS Prof.  
 1 Demr.

**German**

Shea, Mrs. Margaret M., MA Prof.

**History**

Hayes-McCoy, G., MA PhD DLitt BComm Prof.  
 Kennedy, Sheila G., MA HDipEd Lectr. (in Irish)

**Irish, Modern**

O'Maille, T. S., BA PhD HDipEd Prof.  
 O'Broin, T. P., MA Asst.  
 4 Assts.†

**Irish, Old and Middle, and Celtic Philology**

Ni Maol-Chroin, Miss Caitlin, MA DPhil *Bonn*, HDipEd Prof.

**Law and Jurisprudence**

Gallagher, P. J., BA LLB Prof.

**Mathematical Physics**

MacCionnaith, E., MA MSc Prof.  
 Lectr.  
 Ó Cuirín, M. P. S., MSc Asst.  
 Ó Cearbhaill, M., MA Asst.

**Mathematics**

Tobin, J. J., MSc PhD Prof.  
 Ryan, E. R., BSc ME Lectr.  
 Curran, M., MSc Asst.  
 2 Assts.†

**Medicine, see below****Natural History**

De Valera, Máirin, MSc PhD Prof.  
 O Céidigh, P., MSc Lectr.  
 Birmingham, Margaret, BSc Asst.  
 4 Demrs. Asst.

**Philosophy**

Rabbitte, Rev. E., PhD DD Prof.  
 Ó hEidéain, Rev. Fr. E., DPhil *Rome*, MA Lectr.  
 2 Assts.†

**Physics**

O'Brolchain, C., MSc PhD Prof.  
 Larkin, D. M., MSc Lectr.

O'Connor, T., MSc Asst.  
 de Róiste, S., MSc Asst.  
 1 Asst.†, 8 Demrs.

**Physiology**

Donegan, J. F., BSc MB BCh BAO Prof.  
 Burns, J. K., BSc MB BCh BAO Lectr.  
 O'Toole, S., MB BCh BAO Asst.

**Romance Languages**

MacGiollarnáth, P., MA LLB Prof.  
 O'Reilly, Mary J., MA Lectr.

**MEDICINE**

(for subjs. of first 2 yrs.—Anat., etc., see above)

**Bacteriology**

Folan, M. E., MSc MB BCh BAO Prof.  
 2 Demrs.

**Experimental Medicine and Practical Pharmacology**

Lavelle, J. M., MB BCh BAO Prof.

**Medical Jurisprudence**

Little, M. G., MB MCh PhD

**Medicine**

O'Donnell, M. J., MD Prof.  
 4 Clin. Teachers

**Mental Diseases**

Shea, J. R., DPM Lectr.

**Midwifery and Gynæcology**

O'Dwyer, E. M., MB MAO Prof.

**Ophthalmology and Otology**

Prof.

**Pædiatrics**

McNicholl, B., MD DCH, MRCP Lectr.

**Pathology**

Kennedy, J. D., MD MSc Prof.  
 1 Demr.

**Preventive Medicine**

McConn, C., BSc MD BCh BAO DPH, FRCPI Lectr.

**Surgery**

O'Beirn, S., MCh MB BAO Prof.  
 2 Clin. Teachers

**Therapeutics**

O'Driscoll, B. J., MD BCh BAO Lectr.

**Therapeutics, Materia Medica and Pharmacology**

McDermott, E. N., BSc MD, FRCSI Prof.

## ADMINISTRATIVE AND OTHER STAFF

DEANS OF RESIDENCE. Rev. Fr. M. Spelman, BA; Rev. R. Harris, BA; Rev. S. C. Edgar; Rev. C. McNeill Caldwell, MA.

LADY SUPERINTENDENT. Mrs. Mary O'Driscoll, BComm.  
ASSISTANT LIBRARIAN.

## GENERAL INFORMATION

Queen's Coll., Galway, was founded in 1845 and opened to students in 1849. In 1908 the coll. became a constituent coll. of the newly incorporated National Univ. of Ireland. A new charter for the coll. was issued on Dec. 20, 1908, changing the name of the coll. to Univ. Coll., Galway.

LIBRARY. 80,000 vols.

LABORATORIES. Phys., chem., biol., physiol., pathol., geol., engin.

MUSEUMS. Nat. hist., archaeol., mat. med., gynaecol., anat.

FIRST DEGREES (of N.U.I.). BA, BA (Celt. studies)—3 yrs. (hons. degree may be obtained in Irish, Engl., Latin, Greek, French, Italian, Spanish, German, mod. hist., Breathnais, Celtic archaeol., econ., sociol., philos., legal & pol. sci.); BSc—3 yrs. (hons. degree may be obtained in maths., mathl. phys., exper. phys., chem., zool., bot., bacteriol. (indust.)); BComm—3 yrs.; LLB—2 yrs. after BA (legal & pol. sci.) or 3 yrs. after BA (ordinary subjs.); BE (Civil)—4 yrs.; MB BCh BAO—6 yrs.

HIGHER DEGREES (of N.U.I.). MA, 1 yr. from BA; MSc, 1 yr. from BSc; PhD, 3 yrs. from 1st degree (all facs.).

DIPLOMAS, CERTIFICATES. HDipEd, 1 yr. from BA or BSc; DipEd, 1 yr. from 2-yr. course in teachers' trg. coll.; CertComm, 1 yr.

FEES. Coll., £5 p.a. Inclusive approx. fee for complete degree course: arts, 3 yrs., £102; sci., 3 yrs., £144; law, at least 6 terms after BA, £78; med., 6 yrs. (incl. 2 yrs.' gen. hosp. fees), £343;

engin., 4 yrs., £192; comm., 3 yrs., £102. Postgrad. or res. course, £22.

ACADEMIC YEAR. Oct. to June, 3 terms of 10 weeks each. Term dates, 1960-61: Michaelmas, Oct. 11-Dec. 17; Hilary, Jan. 11-March 25; Trinity, April 18-June 30.

LANGUAGE OF INSTRUCTION. Full courses of lectures are given in the Irish lang. in Irish, Latin, Greek, hist., geog., maths., Celtic archaeol., econ., comm., accounting, educn., exper. phys., chem., bot., philos. and mathl. phys. Full courses of lectures are given in the English lang. in the subjs. of the professorships and lectureships of the coll., except in the case of the subjs. of the professorship of econ., comm. and accountancy, lectures on which are given through the medium of Irish alone.

RESIDENCE. The cost of bd. and lodging for a student varies from 7os. to 8os. a week. Every student is required to register under a dean of residence, who exercises supervision over the general conduct of students outside the precincts, and every woman student under a lady supt., who exercises supervision over their conduct within the precincts of the coll.

There is a UNIVERSITY APPOINTMENTS BUREAU and a STUDENT HEALTH SERVICE.

PUBLICATIONS. List of licensed lodging-houses, free; *Coll. Calendar* (2s. 6d.); univ. exam. papers (post free, 2s. 6d.), from O'Gorman and Co., Galway.

## THE YEAR 1959

RETIREMENTS. Rt. Rev. Mgr. P. de Brun (pres.); Prof. C. C. O'Malley (ophthalmol. & otol.).

## Statistics

STUDENT NUMBERS, 1959-60  
(as at the beginning of the academic year)

	Full-Time	Part-Time
Men . . .	670	61
Women . . .	275	11
Total . . .	945	72

Distribution by Faculties. Agric., 39; arts, 343; comm., 157; engin., 69; law, 7; med., 189; sci., 213. Total: 1017.

Included in the figures above are :—

Postgraduate students, 100.

New admissions, 256.

Students from other countries, 64. (Countries from which largest numbers came: U.S.A., 15; Trinidad, 15).

DEGREES AWARDED (by N.U.I.) (1958-59). Arts: BA, 51; MA, 4. Comm.: BComm, 39; MEconSc, 1. Engin.: BE, 7. Med.: MB BCh BAO, 27; MD, 2. Sci.: BSc, 30; MSc, 3. Total number of first degrees awarded, 154.

DIPLOMAS AWARDED (1958-59). HDipEd, 53; DipEd, 3.

## APPENDIX II

# UNIVERSITY ADMISSION

### QUALIFICATIONS FOR ENTRY TO FIRST DEGREE COURSES:

(A) <i>Australia</i> . . .	p. 1326
(B) <i>Canada</i> . . .	p. 1336
(C) <i>South Africa</i> . . .	p. 1358
(D) <i>United Kingdom</i> . . .	p. 1360

#### (A) AUSTRALIA

[The statement which follows relates only to the admission of students proposing to take full courses leading to a first degree. For information regarding admission to courses leading to higher degrees, see the entries for the several univs., above.]

#### GENERAL NOTE

The primary and secondary educnl. systems of the Australian states are the responsibility of the various state govts. Consequently they differ in many respects. However, they are all alike in that they prepare students to the standard necessary for matric. at the univ. or univs. establ'd. in their home state. In all cases there is some liaison between the state educnl. system and the univs. in that state to ensure that candidates coming forward to the univs. will be able to comply with the matric. requirements.

There is no provision for jt. matric. in Australia, each univ. controlling its own admission requirements. Thus the Univs. of Adelaide, Melbourne, New England, New South Wales, Queensland, Sydney, Tasmania and Western Australia, and the Australian National Univ., have individual matric. requirements which are specified below.

The Australian National Univ. comprises 2 sections, namely the inst. of advanced studies and the sch. of general studies. The inst. is concerned with postgrad. res. and study and does not conduct courses leading to a first degree. The minimum academic requirement for admission as a student studying for a doctor's degree is a first degree with honrs. from a recognized univ., but the inst. needs to be satisfied as to the student's

capacity for res. The sch. of general studies (formed from the former Canberra Univ. Coll.) offers courses leading to the degrees of bachelor or master. For 1961 and 1962 a person qualified to be admitted to any Australian univ. will be granted matric. status in the sch.

The admission requirements of the Australian univs. have the same purpose, being designed to ascertain whether candidates are educationally fitted to undertake courses leading to a first degree. This may be done either at a public exam. open generally to secondary sch. students or at a sp. matric. exam. conducted by the univ. In some cases passes are required in sp. subjs. for entrance to the different facs., in addn. to the requirements for matric.

Although the requirements for entrance to the various univs. are not uniform, all possible reciprocity is exercised in the interchange of students, whether from Australian or British univs. In general the univs. will admit to matric. *ad eundem statum* a student who has matriculated or qualified to matric. at another univ. of recog. standing, but in some cases passes in particular subjs. at matric. standard, or in compulsory 'pre-requisite' subjs. for particular courses, may be required.

Sp. facilities are offered for matric. in some univs. to persons of mature age who have not had the opportunity of qualifying in the ordinary way and who pass certain sp. entrance tests.

The table below shows the public exams. in each state recog. by the univs. for matric. purposes,

except as indicated by an asterisk. The exams. are fully recog. only by the univ. conducting them, though, as mentioned above, qualification by a student for matric. at the univ. of his home state is generally recog., in so far as standard is concerned, by the other Australian univs.

## PUBLIC EXAMINATIONS IN AUSTRALIA

<i>State</i>	<i>Examination</i>	<i>Secondary School Year in which Examination normally taken</i>	<i>Conducting Body</i>
New South Wales and Australian Capital Territory	*Intermediate Cert. Leaving Cert. Matric. § Qualifying § Qualifying (Deferred)	3rd yr. 5th yr. 5th yr.	N.S.W. Dept. of Educn. N.S.W. Dept. of Educn. Univ. of Sydney N.S.W. Dept. of Tech. Educn. N.S.W. Dept. of Tech. Educn.
Queensland	*Junior Public Senior Public Matric.	2nd yr. 4th yr.	Queensland Dept. of Educn. Univ. of Queensland Univ. of Queensland
South Australia	*Intermediate Leaving Leaving Hons.	3rd yr. 4th yr. 5th yr.	Univ. of Adelaide Univ. of Adelaide Univ. of Adelaide
Tasmania	Schools Board Cert. Matric.	4th yr. 5th yr.	Schools Bd. of Tasmania Univ. of Tasmania
Victoria	*Intermediate School Leaving Matric.	4th yr. 5th yr. 6th yr.	Univ. of Melbourne Univ. of Melbourne Univ. of Melbourne
Western Australia	Junior Cert. Leaving Cert. Matric.	3rd yr. 5th yr. 5th yr.	Univ. of Western Australia Univ. of Western Australia Univ. of Western Australia

§ Recognized by the Univ. of Sydney only under certain conditions.

|| Not recognized by the Univ. of New England.

*Note.* The age of transfer from primary to secondary sch. varies from state to state, ranging from 12 yrs. in Victoria to 14 yrs. in Queensland.

The average age of entrance upon univ. study is 17 plus in most states, 18 plus in Queensland.

Exams. are also conducted in music in each state under the general auspices of the Australian Music Exams. Bd. Passes in appropriate grades at these exams. are accepted as passes at leaving

cert. standard and, consequently, for matric. purposes, in most states. In Victoria, however, the exams. are recog. for purposes of inter. and leaving cert. exams. but the Univ. of Melbourne conducts its own exams. in matric. music.

## SPECIFIC CONDITIONS

## ADELAIDE

The minimum age for matric. is 16 yrs.

*South Australian Candidates*

In general the requirements for matric. in the Univ. of Adelaide are 5 subjs. taken at the leaving exam. held annually in Nov.-Dec. and chosen from the following groups with certain subjs. specified for the various facs. as follows :

Group A. Engl.

Group B. (i) Latin, Greek, French, German, and such other langs. as may be approved for matric. purposes by the council on the recommendn. of the matric. bd. ;  
(ii) anc. hist., mod. hist., econ. hist., econ., geog., music.

Group C. (i) maths. pt. I, maths. pt. II ;



- (ii) phys., chem., geol., bot.,  
physiol., agric. sci.

Group D. Arith., drawing, book-keeping.

(a) To fulfil the educnl. requirements for matric. a candidate must

- (i) pass in at least 5 subjs. from groups A, B, C and D, above, incl. at least one subj. from each of groups B and C; *provided that* if either maths. pt. I or maths. pt. II is counted, arith. cannot be counted;
- (ii) include in his 5 subjs. at least one subject from section (i) of either group B or group C;
- (iii) *either* pass in Engl. lit. as one of the 5 subjs., *or* satisfy the examiners of his ability to use the lang. as an instrument of expression.

The qualif. in Engl. obtained by a candidate who has satisfied the examiners of his ability to use the lang. as an instrument of expression shall not count as a subject.

(b) The attention of intending candidates is drawn to the fact that, although such requirements do not form part of the general requirements for matric., in some 1st-yr. subjs. at the univ. either a pass in the corresp. subject at matric. standard is prescribed for admission to the class or a knowledge of the subject at matric. standard is assumed.

Attention is drawn to the following :

(a) *Lang. other than Engl.* At least one course in Greek, Latin, French or German is compulsory for the ord. BA degree. No candidate may take the course in Greek I, Latin I, French I or German I until he has passed in the corresp. subject at the leaving exam. or at an exam. accepted by the univ. as equivalent.

(b) *Maths.* Courses in maths. are compulsory subjects in the engin. course; further, a 1st-yr. course in maths. will for many candidates be an essential or desirable subj. in certain other courses (e.g. sci.). No candidate may be admitted to a 1st-yr. class in either until he has passed *either* in leaving maths. pts. I and II *or* in an exam. accepted by the univ. as equivalent.

(c) *Phys. and Chem.* Although a pass at leaving standard is not a prerequisite for admission to the classes in 1st-yr. phys. and chem., the syllabuses in these subjs. presuppose a knowledge of phys. and chem. at leaving standard.

(d) *Music.* Harmony II is a compulsory subject in the 1st yr. of the course for the MusBac degree, and no candidate will be admitted to the class in that subj. until he has *either* passed in the theory of music at the 7th grade of the public exams. in music *or* in a sp. entrance exam. in the theory of music of equivalent standard.

(e) *Law.* A pass in Latin at leaving standard is prerequisite for entry to the class in Roman law.

#### *Candidates from other Australian States*

Matric. in any other Australian univ. is accepted provided that the subj. and grouping

requirements, as prescribed for S. Australian students, are met. A candidate whose qualifs. for matric. in the univ. of his own state do not incl. one or more of the subjs. specified by Adel. is required to pass in only the outstanding subj. or subjs.

#### *Overseas Candidates*

(a) *United Kingdom, Canada, Ceylon, New Zealand and South Africa.* Qualifs. which entitle the holder to matric. in the corresp. fac. in any recog. univ. of any of the Commonwealth countries listed above are accepted, provided that the subj. and grouping requirements, as prescribed for S. Australian candidates, are met. The English G.C.E. is accepted on a basis similar to that required by English univs., provided that certain subjs. (other than Engl.) specified at leaving standard by Adel. have been passed at the advanced level.

(b) *Other parts of the British Commonwealth.* The requirements for candidates from other parts of the Commonwealth, esp. from southern and eastern Asian countries, in general conform to those of U.K. univs., so far as standard is concerned, and incl. the specially prescribed subjs. required by Adel. of its local candidates.

Candidates from India and Pakistan are required to have passed at a good standard in their own univ.'s inter. exam. in arts or sci. and to have incl. in that exam. Engl. and such other subj. or subjs. as may be prescribed for S. Australian candidates.

(c) *Other overseas students.* A candidate may be admitted to matric. who (i) holds a cert. which qualifies him for matric. in a recog. European or United States univ., provided that the subjects specified in the Adel. requirements are included and provided also that the cert. contains at least one mod. lang. and lit.; (ii) in the case of a candidate whose native lang. is not Engl., has passed in a standard Engl. test; and (iii) has passed in the prescribed fac. prerequisites as follows :

*Sci. and engin.* (and for admission to the class in maths. I). Either maths. I and II at the S. Australian leaving exam. or (in approved cases only) a sp. exam. in maths. of equivalent standard.

A candidate who is unable to present acceptable evidence of matric. work done elsewhere must pass in appropriate subjects at the S. Australian leaving exam.

#### *Mature Age*

No provision is made for modification on account of age of the normal requirements for matric.

#### *Special Cases*

The matric. bd. may consider applicns. from candidates who have qualifs. in secondary educn. but have not satisfied the normal requirements for matric. The bd. usually does not exempt such a candidate from the specified entrance requirements, but it may admit him for 1 yr. under con-

ditions which it specifies and which must be fulfilled within 1 yr.

## *Last Date for Receipt of Applications*

The last day of enrolment for local candidates is the 7th Monday in the yr. Late enrolments may be accepted on payment of a late-enrolment fee. The last day of applicn. for admission by overseas candidates is Sept. 30 of the preceding yr. In facs. in which there are quotas this date is rigidly applied.

## AUSTRALIAN NATIONAL UNIVERSITY

### School of General Studies

#### *Special Requirements for Admission*

'There is no min. age for admission to the sch. of general studies. There are no sp. fac. requirements.

#### *Candidates from N.S.W. and the A.C.T.*

A person is eligible to be admitted to matric. if he has, at the one exam., passed the N.S.W. Leaving Cert. exam. in Engl. ; a branch of maths. or a foreign lang. ; and 3 other approved subjs. For 1961 and 1962 a person who satisfies the admission requirements of the Univ. of Sydney or the Univ. of N.S.W. or the Univ. of New England, but who does not satisfy the preceding requirement, may also be admitted.

#### *Candidates from other Australian States*

A person qualified to matriculate in another Australian univ. will be admitted to matric. status.

#### *Overseas Students*

'The matric. qualifs. of certain overseas instns. are accepted as grounds for admitting students to matric. status. However, a person whose native lang. is other than Engl. may be required to show that he has an adequate knowledge of the Engl. lang. by passing a standard Engl. test while still resident in the overseas country.

#### *Provisional Matriculation*

A person who is at least 25 by Dec. 31 in the yr. preceding that in which he proposes to enrol may be admitted to provisional matric. providing he can satisfy the matric. cttee. that he has a reasonable prospect of success in the course for which he proposes to enrol. A person so admitted will be fully matriculated and permitted to sign the matric. roll after having : (i) as a full-time student passed in 2 units by the end of the 1st yr. ; (ii) as a pt.-time student passed in 2 units by the end of the 2nd yr. A person who fails to satisfy this requirement will have his provisional matric. cancelled and will not be eligible for readmission.

#### *Last Date for Receipt of Applications*

Applicns. for admission will usually be received up to the 2nd Tuesday in Feb. of the yr. in which

admission is sought but overseas students are strongly advised to seek admission at least 3 mos. before this date.

## CANBERRA UNIVERSITY COLLEGE

See Australian National University, School of General Studies, *above*.

## MELBOURNE

### *General Requirements*

In order to become qualified to matric., candidates must (a) obtain the Melbourne Sch. Leaving Cert. and be credited therein with 5 subjs. incl. (i) Engl. ; (ii) a branch of maths. or sci. ; (iii) one other subj. chosen from the langs. other than Engl., Greek and Roman hist., mod. hist., British hist., econ., soc. studies ; (b) pass the matric. exam. by passing or obtaining hons. in 4 subjs., incl. Engl. expression ; (c) attain the age of 17 yrs. by March 31 in the yr. concerned.

### *Special Faculty Requirements*

In addition to qualifying to matric., for the following facs. the prerequisites set out below must have been passed at a standard equivalent to that of the Melb. matric. exam. :

*Arts.* A lang. other than Engl.

*Med.* Chem. and either phys. or a branch of maths. It is necessary to pass the Melb. matric. exam. incl. the prerequisites at not more than 2 attempts.

*Agric. sci.* Either phys. or chem.

*Dent. sci.* Chem. and either phys. or a branch of maths.

*Music.* Music (theoretical) and music (practical).

For admission to most facs. it is necessary to be selected primarily on the basis of academic merit at the Melb. matric. exam.

### *Overseas Students*

The matric. qualifs. of the following instns. are accepted as grounds for admitting overseas students to matric. status without further requirements (although they may have to make up the fac. prerequisites at the Melb. matric. exam.) :

*Canada.* Sr. matric.

*Ceylon.* Matric. of the Univ. of Ceylon.

*Egypt.* Secondary Educn. Cert. pt. II (sp. course) of the Egyptian Ministry of Educn.

*Continent of Europe.* Cert. of maturity or equivalent cert. qualifying student to enter a continental univ.

*Republic of Ireland.* Matric. of Trinity Coll., Dub., or N.U.I.

*United Kingdom.* Matric. of any English or Scottish univ., or Univ. of Wales, or Queen's Univ., Belf.

*Greece.* Matric. of Univs. of Athens and Salonika.

**Holland.** (i) Leaving cert. from 'gymnasium' after 6-yr. course. (ii) Dipl. of H.B.S. (iii) Cert. of completion of 6-yr. course at 'lyceum'.

**Hong Kong.** Matric. of Univ. of Hong Kong.

**India.** Pass in the 1st division of inter. sci. or arts exam.—prerequisites, if involved, to be at inter. standard.

**Israel.** Qualif. to enter either Hebrew Univ., Jerusalem or Hebrew Tech. Inst., Haifa.

**Malaya.** Univ. of Malaya matric.

**Pakistan.** Pass in the 1st division of inter. exam. in sci. or arts—prerequisites, if involved, to be at inter. standard.

**South Africa.** Matric. of Jt. Matric. Bd. of Univs. of S.A.

**Syria.** Matric. of American Univ. of Beirut.

**Thailand.** Completion of 1st yr. in Univ. of Chulalongkorn.

**U.S.A.** Qualif. to enter a univ. accredited with the Assocn. of American Univs.

#### *Other Australian Institutions*

Persons qualified to matric. in another Australian univ. will be admitted to matric. status, but will be required to satisfy sp. fac. requirements either at the Melb. matric. exam. or at an equivalent standard.

Provision is made for the recog. of qualifs. gained at certain Australian service establs., and at certain Victorian tech. colls.

#### *University Entrance for Adults*

Sp. provision is made for persons who are at least 20 yrs. of age and have left sch. 4 full yrs. These provisions apply to local students only.

#### *Last Date for Receipt of Applications*

Applicns. for admission may usually be received up to the 3rd Friday of the yr. in which admission is sought by Victorian applicants.

Applicns. for admission *ad eundem statum* should be lodged before Dec. 24 in the preceding yr.

### **MONASH**

#### *General Requirements*

As for Melbourne (see above).

#### *Special Faculty Requirements*

In 1961 teaching will begin in the facs. of arts, econ. & pol. sci., engin., med. and sci., courses being available in the following subjs. at 1st-yr. level: biol., chem., phys., maths., Engl., French, hist., German, philos. and econ. There will be no formal fac. prerequisite subjs. but teaching in the subjs. mentioned above will assume a knowledge of the corresponding subj., except possibly a foreign lang., to Melbourne matric. level.

\* Maths. I or maths. II may be counted as a matric. subj. only if the candidate presented himself for exam. in both maths. I and maths. II.

§ Candidates who have not met requirements under (a) or (b) but who have meritorious passes may be considered for sp. matric.

#### *Overseas Students*

Owing to limited facilities overseas students will not be eligible for admission in 1961 unless qualified to matric. as a result of qualifs. gained at the Victorian Sch. Leaving and matric. exams.

#### *Last Date for Receipt of Applications*

Applicns. for admission will be received up to the 6th Wed. in the yr. in which applicn. is sought.

### **NEW ENGLAND**

#### *Ordinary Matriculation*

1. All candidates for ordinary matric. shall be required to pass at the N.S.W. Leaving Cert. exam. or at the matric. exam. of the Univ. of Sydney in approved subjs. grouped as below:

Group A. Engl.

Group B. (i) Latin, Greek, French, German, Italian, Hebrew, Chinese, Japanese, Russian, Dutch.

(ii) Geog., econ., anc. hist., mod. hist.

Group C. (i) \*Maths. I, maths. II, gen. maths.,

(ii) Agric., appl. maths., biol., bot., chem., geol., phys., phys.-and-chem., physiol., zool.

Group D. Music, theory & practice of music.\*

2. To qualify for matric. a candidate shall either pass:

(a) in at least 5 approved subjs. of which one shall be Engl., one shall be chosen from each of the groups B and C, and of these 2 subjs., one shall be chosen from section (i) of either group B or C; or

(b) in at least 5 approved subjs. of which one shall be Engl. and one shall be chosen from section (i) of either group B or C provided that the passes include one with honours and 2 'A' passes, or 2 with honours.†

3. The following combinations of subjs. are not approved: phys. or chem. with phys.-and-chem.; bot. or zool. with biol.; zool. or biol. with physiol.; maths. I or maths. II with gen. maths.; music with theory & practice of music.

4. All subjs. must be passed at one exam. except that a candidate for ordinary matric. who presents himself for the Leaving Cert. exam. in 1960, or in a subsequent yr., in 5 or 6 subjs. chosen in accordance with the requirements of regns. 1, 2 and 3 and who passes in any 4 of these subjs. shall be granted ordinary matric. status if:

(a) he is awarded passes classified as 'A' standard or passes with honours in at least 2 of these 4 subjs., and

(b) he passes at the matric. exam. of the Univ. of Sydney in the following yr. in at least one addnl. subj. in which he had presented

himself at the preceding Leaving Cert. exam., and

- (c) the 5 passes thus obtained satisfy the requirements of regns. 1, 2 and 3.

5. These regns. shall not affect the right any person had under any matric. regns. in force before July 1, 1960.

### *Special Matriculation*

Sp. matric. may be granted to persons who, while not meeting in full the ord. requirements of this univ., possess exam. qualifs. considered to be of equivalent status. Such persons shall incl. the following :

- (a) Any person who has completed the 1st yr. of a course at the Royal Military Coll. of Australia or the Royal Australian Air Force Coll.
- (b) Any person who has completed satisfactorily the passing-out exam. of the Royal Australian Naval Coll.
- (c) Diplomates of the Hawkesbury or Wagga Agric. Colls. who have obtained hons. or persons with similar qualifs. which are deemed by the bd. of studies to be equivalent.
- (d) Diplomates of the Sydney, Broken Hill, Newcastle or Wollongong tech. coll. who have obtained hons. or credit or persons with similar qualifs. which are deemed by the bd. of studies to be equivalent.
- (e) Persons with war service, having educnl. qualifs. approved by the bd. of studies.
- (f) A person who is qualified to matric. in one of the following univs. : Adelaide, Australian National, Melbourne, Queensland, Tasmania, Western Australia, or a univ. in the U.K. or N.Z., who at the time of qualifying was not normally resident in N.S.W.
- (g) Persons of foreign nationality and educn. who are deemed by the bd. of studies to be capable of undertaking a degree course at this univ. with reasonable prospects of success.
- (h) A grad. of any univ.

### *Provisional Matriculation*

The bd. of studies may grant provisional matric. to a person, of not less than 21 yrs. of age on March 1 of the yr. in which he intends to enrol, who :

- (a) satisfies the bd. of studies that he has reasonable prospects of success at the univ., or
- (b) passes such exams. as the bd. may prescribe.

A person granted provisional matric. shall be granted sp. matric. when he has fulfilled the following requirements :

- (a) if a full-time student, to pass 2 courses by the end of the 1st academic yr. (incl. de-

ferred and sp. exams. where granted) in which he is eligible to enrol after the granting of his provisional status ;

- (b) if a pt.-time student, to pass 2 courses by the end of the 2nd academic yr. (incl. deferred and sp. exams. where granted) in which he is eligible to enrol after the granting of his provisional status.

A person granted sp. matric. in this way may count the courses passed as a provisionally matriculated student for degree purposes provided such courses otherwise satisfy the requirements of the fac. in which he is enrolled.

A person who has not fulfilled these requirements and who fails to satisfy the bd. of studies that there are sp. reasons for extending the period of his provisional matric. status shall have that status withdrawn and may not count for degree purposes any course passed during that period of provisional matric.

## NEW SOUTH WALES

(Matriculation requirements are at present under review)

### *Faculties other than Arts*

(a) No min. age limit for admission to the univ. Applicants for entry to undergrad. courses leading to a degree may satisfy entrance requirements by passing the N.S.W. Leaving Cert., or the Qualifying or Qualifying (Deferred) exams. of the N.S.W. Dept. of Tech. Educn., or equivalent exam., in at least 5 subs., of which one must be Engl. and one other must be maths. I, or maths. II, or general maths., 3 other subs. being chosen from the following groups, at least one of the 3 being from group A.

Group A. Latin, French, Greek, German, Italian, Hebrew, Chinese, Japanese, Russian, Dutch, geol., geog., agric., econ., mod. hist., anc. hist., combined phys. & chem., phys., chem., physiol., biol., bot. or zool.

Group B. Appl. maths., music, theory & practice of music, general maths., maths. I, maths. II or descriptive geometry & drawing.

(b) General requirements. The following general provisions apply : candidates must meet the requirements set out in section (a) above at one exam., provided that

(i) neither phys. nor chem. be taken along with the combined subj. phys. & chem. ;

(ii) neither bot. nor zool. be taken with biol. ;

(iii) neither bot. nor zool. nor biol. be taken with physiol. ;

(iv) neither maths. I nor maths. II be taken with general maths. ;

(v) a candidate who offers maths. and elects to take general maths. may not sit for maths. I or maths. II ; a candidate who offers maths. and does not elect to take general maths. must take both maths. I and maths. II ; a pass in either maths. I or maths. II will count as a pass in 1 subj. ; a pass in both papers will count as passes in 2 subs. ;

(vi) theory & practice of music is accepted only from March 1946 ;

(vii) anc. hist. and agric. are accepted only where the pass was obtained at an exam. held in 1945 or in a subsequent yr. ;

(viii) econ. is accepted only where the pass was obtained at an exam. held in 1947 or in a subsequent yr. ;

(ix) descriptive geometry & drawing is accepted only where the pass was obtained at an exam. held in 1954 or in a subsequent yr.

(c) Notwithstanding the foregoing, candidates may be accepted under the following conditions :

(i) any person who has satisfied the exam. requirements for entrance to the dipl. courses of the Dept. of Tech. Educn., N.S.W., since and including the qualifying exams. of the Dept. of Tech. Educn. held at the end of 1940, may be admitted as a 'registered student' of the Univ. of N.S.W., but this provision shall not apply to exams. held later than March 1961.

(ii) (a) a grad. of any approved univ.

(b) an applicant who presents a cert. from any univ. showing that he is qualified for entrance to that univ., provided that, in the opinion of the professorial bd., there is an acceptable correspondence between the qualifying conditions relied upon by the applicant and the conditions laid down for ordinary entrance to the nominated fac. of the Univ. of N.S.W.

#### *Faculty of Arts*

1. For the purposes of matric. approved subjs. will be grouped as below :

A. Engl.

B. (i) Latin, Greek, French, German, Italian, Hebrew, Chinese, Japanese, Russian and Dutch.

(ii) Geog., econ., anc. hist., mod. hist.

C. (i) Maths. I, maths. II, gen. maths.

(ii) Agric., appl. maths., biol., bot., chem., geol., phys., phys.-and-chem., physiol., zool.

D. Theory & practice of music.

2. Candidates seeking admission to undergrad. courses leading to a degree in arts may satisfy entrance requirements by passing the N.S.W. Leaving Cert. or equivalent exam., either

(a) in at least 5 approved subjs. of which one shall be Engl., one shall be chosen from each of the groups B and C, and of these 2 subjs., one shall be chosen from section (i) of either group B or C ; or

(b) in at least 5 approved subjs. of which one shall be Engl., and one shall be chosen from section (i) of either group B or C provided that the passes include one hon. and 2 'A's or 2 hon.

3. The following combinations of subjs. are not permitted : phys. or chem. with phys.-and-chem. ; bot. or zool. with biol. ; zool. or biol. with physiol. ; maths. I or maths. II with gen. maths.

4. All subjs. must be passed at one exam. (The Leaving Cert. exam. in one yr. and the matric. exam. of the Univ. of Sydney in the following yr. will for the purposes of these requirements be regarded as one exam.) 'The qualifying and the qualifying (deferred) exams. of the dept. of tech. educn. are recognized for entry to arts courses in the same way as for other courses in the univ.

#### *Adult Matriculation*

Sp. provision is made for persons who are at least 25 yrs. of age and who have satisfactorily completed a systematic course of study extending over at least 3 yrs. from the Inter. Cert. level.

#### *Last Date for Receipt of Applications*

Applicns. for admission may be received up to Dec. 31 of the yr. preceding that in which admission is sought.

### QUEENSLAND

#### *General Requirements*

The min. age for admission of matriculated or non-matriculated students is 16 yrs. For the dipl. in physiotherapy course, a candidate must have attained the age of 17 yrs. on or before June 30 of the year in which he enters the course.

A candidate for matric. in any fac. must pass exams. in the subjs. specified for that fac., at the Jr. Public exam. or the Sr. Public exam., as prescribed. The subjs. may be passed at the Sr. or Jr. Public exams. held annually in Nov.-Dec. or at the matric. exam. held annually in Feb. At the matric. exam., subjs. may be taken at sr. or at jr. standard. Passes in required subjs. obtained at other exams., held within or outside Queensland, will be accepted if, in the opinion of the dean of the fac. concerned, they are equivalent to passes at the required standard.

A candidate may pass the subjs. prescribed for any fac. at more than 1 sitting ; but he must at 1 of the sittings either (a) pass at sr. standard in at least 4 subjs. whether or not prescribed for that fac., or (b) pass at sr. standard in 3 of such subjs. and at jr. standard in 1 subj. for which a pass at jr. standard is prescribed for that fac. A sitting in Nov. and a sitting in the following Feb. will be classed as 2 sittings.

If a candidate satisfies the registrar of the univ. that he is not attending a secondary sch. and that (a) there is no secondary sch. near enough to his home for him to be reasonably expected to attend it as a day pupil, or (b) he is in full-time employment, or (c) he suffers from physical disability preventing attendance as a day pupil at a secondary sch., he may pass the subjs. prescribed for any fac. at more than one sitting, but shall not be given credit for a pass in one prescribed subj. only at any sitting unless it is the last subj. to be passed by him and must obtain credit for 4 passes in prescribed subjs. within 3 successive academic yrs., and where 5 subjs. are prescribed for 5 such passes within 4 successive academic yrs.

If a candidate has qualified for matric. in another Australian univ. he may be admitted to such matric. in this univ.

A person who has matriculated in a fac. at a United Kingdom univ. and has completed 1 yr. of a degree course in that univ. is not required to pass any further exams. for a corresponding matric. in this univ. In any other case where a candidate for matric. has pursued a course at this or any other univ., the fac. concerned may exempt him from such of the exam. requirements for matric. in that fac. as it thinks fit.

The following subjs. are available for matric. purposes: Latin, Greek, Engl., French, German, music or art, maths. I, maths. II, chem., phys., bot., zool., Italian, mod. hist., anc. hist., logic, econ., geol., physiol., geog., home sci. A, book-keeping & accounts, geometrical drawing & perspective, elementary surveying & astron.

### Special Faculty Requirements

**Arts.** A candidate is required to pass at sr. standard in at least 4 subjs. covering 4 of the following groups of subjs.: (a) Engl.; (b) French, German, Greek, Latin; (c) maths. I, maths. II; (d) bot., chem., geol., phys., physiol., zool.; (e) mod. hist., anc. hist., geog. The 4 subjs. must incl. Engl. and a subj. from group (b), the other 2 subjs. being selected from any 2 of groups (c), (d) and (e).

**Note.**—The above requirements are min. requirements, and a student intending to pursue an arts course would benefit by taking more than 4 subjs. either to lead up to subjs. he intends to take at the univ. or to give him the advantage of a wider background of general knowledge.

**Sci. (incl. pharmacy).** A candidate is required to pass at sr. standard in 4 subjs. incl. Engl., maths. I and a sci. subj., and in so far as chem., phys. and a lang. other than Engl. are not incl. in the 4 subjs., must pass or have passed them at not less than jr. standard.

A person desiring to pursue the course in indust. chem. must pass at sr. standard in both chem. and phys. and otherwise fulfil the requirements set out above.

**Engin.** A candidate must pass at sr. standard in Engl., maths. I, maths. II, phys. and chem.

A lang. other than Engl. must be passed at not less than jr. standard.

**Note.**—The matric. exam. for the fac. of engin. is recog. by the Engin. Jt. Exam. Bd., London, as qualifying in lieu of their prelim. exam.

**Surveying.** A candidate must pass at sr. standard in Engl., maths. I, phys. and 2 other subjs.

**Comm. and econ.** (1) A candidate must (i) pass at sr. standard in Engl. and maths. I; and (ii) either (a) pass at sr. standard in 3 of the following subjs.: anc. hist., bookkeeping, bot., chem., econ., French, geog., geol., German, Greek, Italian, Latin, maths. II, mod. hist., phys., physiol., zool.

or (b) pass in all the subjs. required for the cert. in accty. or the dipl. in pub. admin., or obtain, in 1956 or later, the dipl. of the Queensland Agric. High Sch. & Coll., Lawes.

(2) A candidate who has qualified for the dipl. in comm. may matric. in the fac. of comm. and econ. before the commencement of the academic yr. 1964 if he has passed in maths. I at sr. standard, or in inter. maths., or in the univ. subj. statistics, but may not be a candidate for the degree of bachelor of econ. unless he has passed in maths. I at sr. standard.

**Agric.** A candidate is required to pass in 4 sr. subjs., incl. Engl., maths. I and a sci. subj.

If chem., phys. and a lang. other than Engl. be not passed at sr. standard, these subjs. must be passed or have been passed at jr. standard in addn. to 4 sr. subjs.

A student of the Queensland Agric. High Sch. & Coll., Lawes, may matric. if he has: (1) been awarded the pass dipl. of the coll.; and (2) passed in phys. and chem. in the Jr. Public exam.; and (3) attained at least 2nd class hon. standard at the coll. in (a) Engl., (b) chem. and (c) agric. bot. or microbiol.; and (4) passed in sp. maths. for coll. students or the sp. course in maths. up to inter. standard.

Students who have matriculated in the fac. of agric. are regarded as having also satisfied the requirements for matric. in forestry.

**Law.** The requirements are the same as for the fac. of arts. A barrister or solicitor of the supreme court of Queensland is exempt from these requirements.

**Dent.** A candidate shall pass in 4 subjs. at sr. standard incl. Engl., maths. I, and at least one of the 2 subjs. chem. and phys. If chem. and phys. are not both passed at sr. standard the one not passed at sr. standard shall be passed at jr. standard. Zool., although not compulsory for matric., is recommended as an extra subj.

**Vet. sci.** The matric. requirements are the same as those for the fac. of agric.

**Med.** A candidate is required to pass in 5 sr. subjs. incl. Engl., maths. I, chem. and phys. German, French or Latin must be passed or have been passed at not less than jr. standard.

A person who has qualified for the dipl. in physiotherapy or the dipl. in occupational therapy may without fulfilling any further requirements be admitted to matric. for the purpose only of qualifying for the degree of bachelor of physiotherapy.

**Education.** A candidate must either (i) fulfil the requirements for matric. in the fac. of arts or the fac. of comm.; or (ii) pass at sr. standard in Engl. and in 4 other subjs. selected from the following groups of subjs. and covering at least 2 of the groups: (a) mod. hist., anc. hist., geog., econ., music; (b) Latin, Greek, French, German, Italian; (c) maths. I, maths. II; (d) chem., phys., bot., zool., physiol., geol. A person who has qualified for the dipl. in soc. studies may matric. in the fac. of educn. without further exam.

**Archit.** A candidate is required to pass at sr.

standard in (a) Engl., maths. I and phys. (b) 2 other subjs. If the subjs. fulfilling the requirement of para. (b) do not incl. art (pts. A and B) or geometrical drawing & perspective, a pass in pt. A of art will also be required. If the subjs. fulfilling the requirement of para. (b) do not incl. chem., a pass in chem. at jr. standard will also be required.

#### *Adult Matriculation*

A candidate who is normally resident in Australia and who has attained the age of 23 yrs. may be admitted to matric. in the several facs. on passing a sp. exam. The candidate may, if he so chooses, matric. under the ordinary regns. There is no provision for adult matric. in the fac. of med.

#### *Last Date for Receipt of Applications*

Applicns. for admission may be received up to Jan. 31 of the yr. in which admission is sought.

Applicns. from overseas students should be made by Sept. 30 in the preceding yr.

### **SYDNEY**

There is no min. age limit for admission to the univ., except that candidates for admission to the fac. of law must be 17 yrs. of age.

#### *Matriculation*

Candidates for any of the degrees granted by the Univ. of Sydney will be required to matric. before entering upon the prescribed course for the degree. Before being admitted to matric., candidates must have passed one of the exams. required by the by-laws for admission to the prescribed courses in the different facs., or must have been admitted *ad eundem statum*.

#### *Matriculation Examination*

The exam. will be in the following subjs. :

Group A. Engl.

Group B. (i) Latin, Greek, French, German, Italian, Hebrew.

(ii) Anc. hist., mod. hist., geog. (from July 1, 1960), Chinese, Japanese, Russian, Dutch or such other lang. as shall be approved by the professorial bd.

Group C. (i) Maths. I, maths. II, general maths.

(ii) Geog. (prior to July 1, 1960), appl. maths., phys., chem., geol., phys.-&-chem., bot., zool., biol., agric.

Group D. Econ., music, theory & practice of music.

In order to qualify for matric., candidates must pass at one exam. in at least 5 subjs., of which one must be Engl., one must be chosen from each of group B and group C, and of these 2 subjs., at least one must be chosen from section (i) of either group B or group C. The remaining subjs. may be chosen from one or more of the groups B, C and D, provided that :

- (a) neither phys. nor chem. may be taken along with the combined subj. phys.-&-chem. ;
- (b) neither bot. nor zool. may be taken with biol. ;
- (c) neither maths. I nor maths. II may be taken with general maths. ;
- (d) a candidate who offers maths. and elects to take general maths. may not sit for maths. I or maths. II ; a candidate who offers maths. and does not elect to take general maths. must take both maths. I and maths. II ; a pass in either maths. I or maths. II will count as a pass in one subj., passes in both papers will count as passes in 2 subjs. ;
- (e) music is accepted for matric. only where the pass was obtained at an exam. held after July 1, 1958, and provided that it is not taken with theory & practice of music.

There are no sp. requirements for matric. in any fac.

These requirements shall not affect the right which any person would have had, because of a qualif. obtained before March 1, 1959, to matric. or to matric. into any particular fac. Persons who passed an exam. approved for matric. before March 1, 1959, should check their qualifs. with the registrar.

#### *Leaving Certificate Examination*

A candidate who has passed at the Leaving Cert. exam. of the Dept. of Educn., N.S.W., in the subjs. and at the standards (an hon., an 'A' or a 'B' pass) required for matric., may be admitted to matric. without further exam.

A candidate for matric. who has presented himself for the Leaving Cert. exam. held in 1959 and subsequent yrs. in 5 or 6 subjs. selected in accordance with the above requirements, and who has passed in Engl. and 3 other of these subjs., shall be granted matric. status provided that he has been awarded 'A' passes or passes with hon. in at least 3 of these 4 subjs. or is awarded passes with hon. in at least 2 of these 4 subjs.

#### *General*

Any person who produces evidence that he has completed (a) the 1st yr. of the course at the Royal Military Coll. of Australia, or (b) the passing out exam. of the Royal Australian Naval Coll., or (c) the 1st yr. of the course at the Royal Australian Air Force Coll., may be admitted to matric. without further exam.

Holders of the dipl. with hon. of an approved agric. coll. or holders of a dipl. with hon. or credit of an approved tech. coll. may be admitted to matric.

Persons of foreign nationality and educn. may be admitted to matric. by a sp. exam. if they give evidence that satisfies a three-fourths majority of the fac. of arts and of the professorial bd. that they are of good fame and character, and personally and educationally qualified for entrance to the univ.

*Provisional Matriculation*

Provisional matric. may be granted to any person of not less than 25 yrs. of age who produces satisfactory evidence that he is of educnl. merit and who passes such exams. as may be prescribed. Provisional matric. granted to a person under these conditions shall be confirmed when he has fulfilled such requirements as the professorial bd. shall determine.

*Admission ad eundem statum*

The professorial bd. may admit as a matriculated student in any fac., with such status as the bd. thinks proper in the circumstances, a person :

- (a) who is a grad. of any other univ., or
- (b) who presents a cert. from an approved univ. showing that he is qualified for matric. and entrance to that univ. and setting out the grounds of that qualif., provided that, in the opinion of the bd., there is a reasonable correspondence between the qualifying conditions relied on by the applicant and the conditions laid down for ordinary entrance to the Univ. of Sydney.

An applicant shall not be admitted unless he gives evidence of his degree or status and of good conduct.

Before being admitted to matric., foreign students are required to show that they have an adequate knowledge of the Engl. lang.

**TASMANIA***General Requirements*

Exams. at which qualifs. for matric. are obtained are (a) the matric. exam. conducted by the univ. ; (b) the Schools Bd. Cert. exam. conducted by the Schools Bd. of Tasmania. The latter is the sch. leaving exam. and is normally taken 1 yr. before matric., i.e. at the age of 15 or 16 yrs.

Students are required to pass 6 subjs., incl. (a) Engl. expression ; (b) one of Engl. lit., mod. hist., anc. hist. and soc. studies ; (c) one of French, German, Latin and Greek ; (d) maths. The remaining subjs. may be chosen from the above groups and from appl. maths., phys., chem., biol., geol., geog., econ., music and art.

Engl. expression and 2 other subjs. may be passed at the Schs. Bd. exam. or at the lower pass standard of the matric. exam. The remaining 3 subjs. must be passed at the higher pass standard of the matric. exam. Students may be exempted from the requirement of having to pass in subjs. of both groups (c) and (d), provided that a subj. of one of the groups is passed and that a certain subsidiary standard is reached in a subj. of the other group. One lower pass and the 3 higher passes must be gained in 2 sittings, exams. held in Dec. and the following Feb. counting as 1 sitting for this purpose. Engl. expression and the remaining lower pass may be gained at any sitting or sittings. Schs. Bd. subjs. and corresp. matric. subjs. may not both be counted, e.g. Schs. Bd. maths. It may not be counted if matric. maths. A has been passed.

The normal min. age for admission to matric. is 17 yrs. but students under this age may be admitted if considered by the professorial bd. to be of exceptional ability. Persons over the age of 23 yrs. may be admitted to matric. without having complied in full with the ordinary requirements.

*Prerequisites*

There are no fac. prerequisites as such, but the following prerequisites for specific subjs. are required :

*Foreign lang.* A higher pass in the corresp. matric. subj.

*Maths.* A higher pass in matric. maths. A.

*Phys.* A higher pass in matric. maths. A, or a pass in prelim. maths. at the univ.

*Exempting Examinations*

The univ. will admit to matric. students who are qualified for admission to other Australian univs., to univs. in the United Kingdom or New Zealand, and (subject to proficiency in Engl.) to other univs. of standing throughout the world. Students who gain partial qualifs. elsewhere may be awarded matric. on passing such subjs. of the matric. exam. as may be prescribed by the professorial bd.

*Last Date for Receipt of Applications*

The last date for receipt of applicns. for admission is Feb. 15 for all students.

**WESTERN AUSTRALIA***General Qualifications for Matriculation*

The min. age for admission is 17 yrs. The normal method of satisfying min. entrance requirements is by means of a qualifying exam. in which candidates must pass in Engl. and 4 other prescribed subjs. The qualifying exams. incl. the Western Australian Leaving Cert. exam. held annually in Nov. and the matric. exam. conducted by the Univ. of W. Aust. in Feb. each yr. Admission to the matric. exam. is restricted to persons who seek to complete matric. requirements.

There are no spec. requirements for entrance to any fac.

(1) The subjs. for matric. are (i) Engl. ; (ii) French, German, Greek, Hebrew, Italian, Latin, Spanish, or any other lang. approved from time to time by the bd. ; (iii) geog., hist., econ. ; (iv) maths. A, maths. B, music ; (v) biol., chem., geol., phys.

(2) Subject to section (3) (*below*), in order to matric., candidates must at 1 exam. pass in Engl. and in not less than 4 other subjs. chosen from at least 3 of the groups (ii), (iii), (iv) and (v) above. For the purposes of this section the Leaving Cert. exam. and the following matric. exam. shall be counted as 1 exam., provided that only candidates who have passed in not less than 4 prescribed subjs. at the Leaving Cert. exam. shall be permitted to complete the matric. requirements at the following matric. exam.



(3) Candidates may matric. by passing at not more than 2 exams. in the appropriate number of subjs. required by section (2) hereof if they have left sch. before the commencement of the yr. in which the first of such exams. is taken and have since that time been gainfully employed. For the purposes of this section the Leaving Cert. exam. and the matric. exam. shall be regarded as separate exams.

### *Special Exemptions*

Students over the age of 21 may be admitted without passing the normal matric. exam. In the facs. of arts, econ. and educn. a sp. mature age exam. is held, while in the other facs. students are required to provide satisfactory evidence that they possess educn. qualifs. sufficient to enable them to take the proposed course.

### *Candidates from outside Western Australia*

(i) Students from Australia, N.Z. and the United Kingdom. Matric. status is granted to

students qualified for matric. in any other univ. in Australia, N.Z. or the U.K.

(ii) Students from other parts of the British Commonwealth and certain Asian countries where U.K. exams. are taken. Each applicn. is considered on its merits. Applicants are expected to have a sufficient knowledge of Engl. lang. and to have reached a standard of educn. equivalent to that required for matric. in a univ. in the U.K. (e.g. Univ. of Lond.).

(iii) Other overseas students. Students from other countries who have qualified for matric. in approved univs. may be granted matric. status. Each applicn. is considered on its merits and applicants must have a sufficient knowledge of the Engl. lang.

### *Last Date for Receipt of Applications*

Applicns. for admission may be received up to the 1st Monday in Feb. of the yr. in which admission is sought.

## (B) CANADA

(Contributed by Dr. E. F. Shethfield, Research Officer, Canadian Universities Foundation)

[The statement which follows relates only to the admission of students entering at the conclusion of secondary school studies and proposing to take full courses leading to a first degree. For information regarding admission at higher levels and to courses leading to higher degrees, *see* the entries for the several univs., *above*.]

### GENERAL NOTE

The public elementary and secondary schools of Canada are under provincial jurisdiction: each province has its own curriculum and awards its own certs. of completion of secondary school studies. Except in French Canada (*see below*), private schools are relatively few, enrol less than 5 per cent. of the elementary and secondary school population, and usually follow the public school curriculum of the province in which they are located. Courses of study which prepare for entry to univ. are of 11 to 13 yrs.' duration. Secondary school graduation certs. are at two levels, one generally referred to as the *junior matriculation* level (after the 11th or 12th grade or year of schooling), and the other, involving an addtl. year of study, as the *senior matriculation* level (after the 12th or 13th grade or year of schooling).

Some univs. admit at the jr. matric. level, some at the sr., and some at both levels—allowing credit for one yr. of univ. studies on the basis of certs. at the sr. matric. level. Each univ. couches its entrance requirements in terms of the certs. awarded in its own province but all treat certs. of other provinces as if they were approx. equivalent to their own, differentiating only between jr. and sr. levels.

Most exams. marking the completion of high

school (secondary) studies are set and marked by the dept. of educn. of the province concerned. Three of the four Atlantic provinces (Newfoundland, Prince Edward Island and Nova Scotia) co-operate in the support of an Atlantic Provinces Examining Bd. which sets and marks exams. for each of the three provinces. The exams. differ for the various provinces, however, and the results are issued by the provinces on their own certs. rather than by the bd. An exception is made for a few private schools for which statements of exam. results are issued in the bd.'s name. In the province of Quebec there are two public examining bodies: for Catholic schools—the *Comité de Régie du certificat d'études* (of the *Comité Catholique du Conseil de l'Instruction Publique*); and for Protestant schools—the Protestant High School Leaving Bd. (of the Protestant Cttee. of the Council of Education). In Ontario, exams. at the jr. matric. level are set and marked, under the jurisdiction of the provincial dept. of educn., by individual schools, while those at the sr. matric. level are under the supervision of a Univ. Matric. Bd. composed of reps. of the major univs. of the province and reps. of the dept. of educn. In Manitoba, Saskatchewan, Alberta and British Columbia exams. are supervised jtly. by the univ. and the dept. of educn.

A number of the univs. of the Atlantic provinces set their own matric. exam. when necessary, but few students present themselves and seldom does a student take these exams. in all of the required subjs. In the province of Quebec the three French-lang. univs., Laval, Montreal and Sherbrooke, have extensive programmes of exams. (described below). McGill Univ. sets series of papers at both jr. and sr. levels, the former qualifying for the Jr. School Cert. and the latter for the Sr. School Cert. of the univ. The univs. of the other provinces do not set matric. exams. of their own but, as mentioned above, each co-operates with the dept. of educn. of its province.

In French Canada the course leading to the *baccalauréat ès arts* (BA) is given in independent *collèges classiques* affiliated to the univs. It is of 8 yrs.' duration, in two 4-year stages called *cours secondaire* and *cours collégial*. The former is comparable to the high school of English Canada and the latter to the general course in arts. Admission to the 2nd stage is by passing the *immatriculation* exam. set by the univ. at the conclusion of the yr. known as *versification*, which is the 4th (final) yr. of the *cours secondaire* and the 11th yr. of schooling. Compulsory exam. subjs. are: French, Engl., Latin, hist., geog., maths. and sci. Greek is optional. Recent revision of the Quebec French Catholic secondary school curriculum has made it possible for certain schools under provincial control to offer the equivalent of the 1st 4-yr. stage, the classical course preparing for *immatriculation*.

The 4 yrs. of the *cours collégial* are called *belles-lettres, rhétorique, philosophie I* and *philosophie II*. In colls. affiliated to Laval and Sherbrooke, univ. exams. are taken at the end of the 2nd yr. (*rhétorique*), and again at the end of the 4th yr. for the *baccalauréat*. In those affiliated to Montreal, exams. are taken at the end of every yr. of the *cours collégial*.

In order to meet the needs of students wishing to enter certain facs. of the French-lang. univs. by routes other than that offered by the *collège classique* the Univ. of Montreal and the Univ. of Sherbrooke inaugurated within recent yrs. a one-yr. preparatory course open to grads. of other secondary schools and leading to a *certificat d'immatriculation majeur* or *senior*.

In the table which appears on pp. 1338-1340 the most common certs. and records of marks issued by official examining bodies in Canada are listed. The nos. assigned to them are referred to in the statements of requirements for admission to the various univs., which follow. The reader should be aware that some documents issued by examining bodies do not certify graduation but simply list marks obtained on exams., e.g. 'certificates' numbered 1, 2, 4, 9, 26, 27. It should be noted also that some public high schools issue their own graduation dipls. or certs. on bases which may or may not meet the standards set by the provincial dept. of educn., e.g. in Prince Edward Island and New Brunswick.

In order to make these individual statements

somewhat comparable, three common headings are used for each English-language institution: A. Admission at the Junior Matriculation level, B. Admission at the Senior Matriculation level, and C. Students from Abroad. For the French-language univs., in which the terms jr. and sr. matric. have less relevance, the three common headings are: A. Admission to the second stage (*cours collégial*) of the Arts programme in affiliated *collèges classiques*, B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school, and C. Students from Abroad.

It should be noted that in most univs., admission to such professl. schools as med., dent., law, theol., library sci., social work and educn. requires the previous attainment of a 1st degree in arts or sci. or at least 2 yrs. of study, beyond the jr. matric. level, in arts or sci. Reference to these is omitted except in the few cases (e.g. med. and dent. at Toronto) where the pre-professl. studies are followed in the professl. school itself and where admission is normally at the conclusion of secondary school studies.

It is likely that, effective in 1961, a considerable number of the English-language univs. will adopt regns. concerning facility in the English lang., comparable to those now in effect at the Univ. of Toronto. (See p. 1356.)

Some oft-used terms defined:

**Junior matriculation.** Eligibility for admission to univ. at the lower of the two common levels of entry. A student holding a secondary school graduation cert. may or may not have 'junior matriculation' standing, depending on the number and pattern of the subjs. taken and his standing on the exams.

**Senior matriculation.** Eligibility for admission to univ. at the higher of the two common levels of entry. Involves one yr. of study beyond the jr. matric. level.

**Grade, Year.** One yr. of primary or secondary schooling, Sept. to June. Thus grade XI is the 11th yr. of schooling, 12<sup>e</sup> année is the 12th.

**Pass or General Course.** An unspecialized univ. course, commonly leading to a bachelor's degree in 4 yrs. beyond jr. matric., or 3 yrs. beyond sr. matric.

**Honours course.** A specialized univ. course, sometimes of the same length as the pass or general course, more often one yr. longer.

**First year, Second year, etc., of course.** Counting from jr. or sr. matric., depending on which is the minimum level of admission to the fac. concerned.

**Freshman, Sophomore, Junior, Senior year of course.** 1st, 2nd, 3rd, 4th yr., usually counting from the jr. matric. level.

**Subject, Paper.** In any one subject in which a candidate is examined for graduation from secondary school he may be required to write 1, 2 or (occasionally) 3 papers.

**Elective, Option.** A matric. subj. which may be

chosen with more or less freedom from a list of subjs., no one of which is compulsory.

*Credit.* When an entering student is given *credit* for a univ. subj., he is exempted from it and the number of courses required for the degree is thus reduced.

*College aptitude test.* Usually a psychological

exam. of scholastic aptitude : an intelligence test or something similar.

*Music certificates.* Certs. required for admission to facs. of music frequently are referred to in such terms as : grade VIII practical, grade II theory. The reference is to the exams. of one or other of the conservatories of music in the region.

CERTIFICATES AND RECORDS OF MARKS ISSUED BY OFFICIAL EXAMINING BODIES IN CANADA

No.	Certificate or Record of Marks	Level *	Examining Body
1	<i>Atlantic Provinces</i> (Newfoundland, Prince Edward Island, Nova Scotia)	JM	Atlantic Provinces Examining Bd.
	Statement of Exam. Results (grade XI, Newfoundland and Nova Scotia ; grade XII, Prince Edward Island), Atlantic Provinces Examining Bd. (The bd. does not issue a graduation cert.)		
2	Statement of Exam. Results (grade XII, Nova Scotia), Atlantic Provinces Examining Bd. (The bd. does not issue a graduation cert.)	SM	Atlantic Provinces Examining Bd.
3	<i>Newfoundland</i> Matric. Dipl. (grade XI), Dept. of Educn., Province of Newfoundland. (Includes details of marks.)	JM	Atlantic Provinces Examining Bd.
4	<i>Prince Edward Island</i> Exam. Results in grade XII subjs., Dept. of Educn., Prince Edward Island. (Graduation certs. are issued by individual schools.)	JM	Atlantic Provinces Examining Bd.
5	Cert. (or Honour Cert.) of the 2nd Yr., Prince of Wales Coll. and Normal School. (Includes details of marks.)	JM	Prince of Wales Coll.
6	Cert. (or Honour Cert.) of the 3rd Yr., Prince of Wales Coll. and Normal School. (Includes details of marks.)	SM	Prince of Wales Coll.
7	<i>Nova Scotia</i> High School Cert., grade XI, Dept. of Educn., Nova Scotia. (Includes details of marks. The dept. also issues a 'Record of Exam. Marks Only, Grade XI'.)	JM	Atlantic Provinces Examining Bd.
8	High School Cert., grade XII, Dept. of Educn., Nova Scotia. (Includes details of marks. The dept. also issues a 'Record of Exam. Marks Only, Grade XII'.)	SM	Atlantic Provinces Examining Bd.
9	<i>New Brunswick</i> Departmental Exams., on completion of high school subjs. (grade XII), Dept. of Educn., Province of New Brunswick. (Graduation certs. are issued by individual schs. In addition, an Honour Cert. is awarded by the Dept. to those with 75 per cent. average in 8 papers.)	JM	New Brunswick Dept. of Educn.
10	Certificat d'immatriculation (Versification)	JM	Sacred Heart Univ., St. Joseph's Univ., St. Louis Univ.

\* JM=junior matriculation level ; SM=senior matriculation level

No.	Certificate or Record of Marks	Level *	Examining Body
<i>Quebec</i>			
11	Cert. d'immatriculation (Versification)	JM	Laval Univ., Montreal Univ., Sherbrooke Univ.
12	Examen rhétorique	SM+	Laval Univ., Sherbrooke Univ.
13	Cert. lettres-sciences	JM	Laval Univ., Sherbrooke Univ.
14	Cert. d'immatriculation majeur or senior	SM	Montreal Univ., Sherbrooke Univ.
15	Cert. d'Études Secondaires, Onzième Année, Dépt. de l'Instruction Publique, Province de Québec	JM	Comité de Régie du Cert. d'Études (of the Comité Catholique du Conseil de l'Instruction Publique)
16	Cert. d'Études Primaires Supérieures (soon to be renamed Cert. d'Études Secondaires), Douzième Année, Dépt. de l'Instruction Publique, Province de Québec. Details of marks are given in separate documents—one for boys, Cert. d'études de 12 <sup>e</sup> année, Garçons (section scientifique, section commerciale), and one for girls, Cert. d'études de 12 <sup>e</sup> année, Filles (section générale, section commerciale, section spéciale)	SM	Comité de Régie du Cert. d'Études (of the Comité Catholique du Conseil de l'Instruction Publique)
17	Dipl. d'études techniques, 4 <sup>e</sup> année	SM+	Instituts de technologie, Province de Québec
18	Catholic High School Leaving Cert. (grade XI), Dept. of Educn., Province of Quebec	JM	Catholic High School Exam. Bd. (of the Catholic Cttee. of the Council of Educn.)
19	Catholic Sr. High School Leaving Cert. (grade XII), Dept. of Educn., Province of Quebec	SM	Catholic High School Exam. Bd. (of the Catholic Cttee. of the Council of Educn.)
20	High School Leaving Cert. (grade XI), Dept. of Educn., Province of Quebec. (Includes details of marks. The dept. also issues a statement of marks, 'High School Leaving Exam., Quebec', to those who have not qualified for the cert.)	JM	Protestant High School Leaving Bd. (of the Protestant Cttee. of the Council of Educn.)
21	Sr. High School Leaving Cert. (grade XII), Dept. of Educn., Province of Quebec. (Includes details of marks. The dept. also issues a statement of marks, 'Sr. High School Leaving Exam., Quebec', to those who have not qualified for the cert.)	SM	Protestant High School Leaving Bd. (of the Protestant Cttee. of the Council of Educn.)
22	Jr. School Cert., McGill Univ.	JM	McGill Univ.
23	Sr. School Cert., McGill Univ.	SM	McGill Univ.
<i>Ontario</i>			
24	Secondary School Graduation Dipl. (grade XII) of the General Course, Dept. of Educn. Act, Ontario. (Details of marks may be obtained only from the principal of the sch. attended.)	JM	Secondary schools supervised by the Ontario Dept. of Educn.
25	Secondary School Honour Graduation Dipl. (grade XIII) of the General Course, Dept. of Educn. Act, Ontario. (Details of marks are given in a separate document: Grade XIII exam., Dept. of Educn., Ontario.)	SM	Univ. Matric. Bd., Ontario Dept. of Educn.

\* JM=junior matriculation level; SM=senior matriculation level; SM+=beyond senior matriculation level.

[continued from previous page]

No.	Certificate or Record of Marks	Level *	Examining Body
<i>Manitoba</i>			
26	Statement of standing, grade XI schedule, Dept. of Educn., High School Exam. Bd., Province of Manitoba. (The dept. does not issue a graduation cert.)	JM	High School Exam. Bd., Manitoba Dept. of Educn.
27	Statement of standing, grade XII schedule, Dept. of Educn., High School Exam. Bd., Province of Manitoba. (The dept. does not issue a graduation cert.)	SM	High School Exam. Bd., Manitoba Dept. of Educn.
<i>Saskatchewan</i>			
28	Grade Twelve Dipl., Dept. of Educn., Province of Saskatchewan. (Details of marks are given in a separate document : Statement of standing, grade eleven and grade twelve schedules, June exams., Dept. of Educn., Province of Saskatchewan.)	SM	Saskatchewan Dept. of Educn.
<i>Alberta</i>			
29	Sr. High School Dipl. (grade XII), Dept. of Educn., Province of Alberta. (Details of marks are given in a separate document : High School Record, Educn. Dept., Alberta.)	SM	High School and Univ. Matric. Exam. Bd., Alberta Dept. of Educn.
<i>British Columbia</i>			
30	High School Graduation Dipl. (Univ. Programme) (grade XII), Dept. of Educn., The Govt. of the Province of British Columbia. (Details of marks are given in a separate document : British Columbia Transcript of Record, grades IX-XIII.)	JM	Bd. of Examiners, British Columbia Dept. of Educn.
31	British Columbia Transcript of Record, grades IX-XIII	SM	Bd. of Examiners, British Columbia Dept. of Educn.

## SPECIFIC CONDITIONS

## ACADIA

## A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 7. §
2. Other certs. listed as acceptable equivalents : none listed, but equivalent certs. will be accepted.
3. General requirements : applicants must pass the matric. exams. of the univ. (held in Sept.) or present certs. acceptable as equivalents.
4. Specific requirements :

*Arts, sci., engin., comm., home econ., secretarial sci.* (a) Matric. subsj. : (1) Engl., algebra, geom., a lang. other than Engl. ; (2) any 3 of : hist., phys., chem., biol., trig., French, Latin, Greek, German, Spanish, music. (b) Required standing : an average of 60 per cent. with no mark below 50 per cent.

*Music.* As for arts and sci., plus grade VII standing in music.

## B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 8. §
2. Other certs. listed as acceptable equivalents. no. 6. § Other certs. will be accepted.
3. General requirements : credit may be given for a max. of 5 subsj. of the 1st yr., but conditions are attached to the granting of such credit for phys., chem. and maths.

## C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

## ALBERTA

## A. Admission at Junior Matriculation level

None.

\* JM = junior matriculation level SM = senior matriculation level

§ See pp. 1338-1340

**B. Admission at Senior Matriculation level**

1. Cert. in terms of which requirements are expressed : no. 29.\*

2. Other certs. listed as acceptable equivalents : none listed, but equivalent certs. will be accepted.

3. General requirements. (a) students from the high schools of Alberta must present (1) a high school dipl. with (2) 'B' or higher standing in the required courses of grade XII (*see below*), and (3) an average in these courses of at least 60 per cent.; (b) candidates from outside Alberta will be required to meet equivalent standards; (c) a fee of \$5.00 is charged for evaluation of documents issued by Canadian educnl. institutions outside Alberta, and a fee of \$10.00 for documents issued by educnl. institutions outside Canada.

4. Matriculation subjects required :

*Agric.* Engl.; social studies; maths. §; chem.; and 2 of: phys., biol., French or German or Latin (phys. is recommended).

*Arts.* Engl.; social studies; maths. §; French or German or Latin; and 2 of: chem., phys., biol., French or German or Latin.

*Comm.* Engl.; social studies; maths. §; and 3 of: chem., phys., biol., French or German or Latin.

*Alucn.* Engl.; social studies; and 4 of: maths. §, chem., phys., biol., French, German, Latin. Candidates intending to specialize in household econ. or phys. educn. should offer chem.

*Engin.* Engl.; social studies; maths. (2 papers: algebra and trig.); chem.; phys.; and French or German or Latin.

*Household econ.* Engl.; social studies; maths. §; chem.; phys. or biol. (phys. is recommended); French or German or Latin.

*Med. lab. sci.* Engl.; social studies; maths. §; chem.; and 2 of: phys., biol., French or German or Latin.

*Music.* Engl.; social studies; maths. §; French or German or Latin; and 2 of: chem., phys., biol., French or German or Latin. In addition, students must have completed grade VIII practical and grades IV and V theoretical of the Western Bd. of Music exams., or the equivalent.

*Pharmacy.* Engl.; social studies; maths. §; chem.; and 2 of: phys., biol., French or German or Latin. Phys. is recommended.

*Phys. educn.* Engl.; social studies; chem.; and 3 of: French, German, Latin, phys., biol. (recommended), maths.

*Sci.* Engl.; social studies; maths. §; 2 of: chem., phys., biol.; one of: French, German, Latin. Chem. and phys. are strongly recommended. A separate paper in trig. is an addnl. requirement for those intending to follow studies in the phys. scis.

*Nursing.* Engl.; social studies; chem.; and

3 of: maths. §, phys., biol., French or German or Latin.

5. Mature matric.: students of mature age whose high school preparation has not been regular may in certain circumstances be excused from presenting a high school dipl. Such students should apply to the registrar for specific information.

**C. Students from Abroad**

Certs. are evaluated in terms of the requirements stated above.

*U.K.* The G.C.E. is accepted as sr. matric. with standing at the advanced level in at least 2 appropriate subjs. and at the ordinary level in the remainder of the 5 subjs. prescribed for admission to the fac. concerned.

*Other Commonwealth.* Applicants from other countries of the Commonwealth are generally deemed eligible for admission if they have the standing prescribed for admission to their 'home' univ. as outlined in the *Commonwealth Universities Yearbook*.

*U.S.A.* Applicants generally must have high school graduation plus at least one full yr. (the freshman yr.) of coll. work with satisfactory standing in Engl., a lang. other than Engl., maths., and 2 of: biol., chem., phys. The univ. is experimenting with the use of the Coll. Entrance Exam. Bd. aptitude and achievement tests as an aid to the selection of students from the U.S.A.

*Europe.* Students who have completed the requirements for admission to a European univ. are deemed eligible for admission at the sr. matric. level upon passing a special oral and written Engl. lang. exam. Such students, therefore, are not granted firm admission until they have taken up residence in Alberta and have passed this exam.

*Middle East, Asia, West Indies, South America.* Because the univ. has not a satisfactory procedure for the selection of students from these areas, admission to undergrad. programmes is granted only under special circumstances. The univ. is prepared, however, to consider applicants for admission from students in the following categories : (a) those who are applying for admission to a univ. programme which is not offered in their own country, and who submit an official statement to that effect from their Ministry of Educn.; (b) those who are sponsored by their home govt. under the Colombo Plan or some similar official arrangement; those who have been admitted to Canada by the Canadian immigration authorities, and have satisfied the Univ. of Alberta's requirements for matric. and for proficiency in the Engl. lang. In all cases the univ. will require proof of proficiency in Engl. and of financial competence.

**ASSUMPTION, WINDSOR****A. Admission at Junior Matriculation level**

1. Cert. in terms of which requirements are expressed : no. 24.\*

§ One paper in algebra and trig.

\* See pp. 1338-1340

2. Other certs. listed as acceptable equivalents : equivalent certs. will be accepted. *See C below.*  
 3. General requirements : jr. matric. admits to the 'prelim. yr.'

4. Specific requirements :

*Arts.* (a) Matric. subjs. : (1) Engl. ; (2) hist. ; (3) Latin or maths. ; (4) one of : Latin, French, German, Spanish or Italian, Greek ; (5) two of : maths., sci. or agric., music (grade III theory, or grade VII practical and grade II theory), geog., another from (4) above. (b) Required average : at least 65 per cent.

*Sci.* As for arts, but with an average of at least 66 per cent. in maths. and sci.

5. Mature matric. : mature students who lack normal admission requirements but who can give evidence of likelihood of success in univ. studies may be admitted *on probation*. Satisfactory completion of one yr.'s work will fulfil matric. requirements for degree candidacy.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 25.\*

2. Other certs. listed as acceptable equivalents : equivalent certs. will be accepted. *See C below.*

3. General requirements : satisfactory completion of the prelim. yr. or of 9 papers of grade XIII (cert. no. 25 \*) or the equivalent admits to the first yr. (an applicant may be admitted with one condition, i.e. lacking one subj.).

4. Specific requirements :

*Arts.* Matric. subjs. : Engl. (2 papers) ; another lang. (2 papers) ; and *either* maths. (2 papers) or a 3rd lang. (2 papers) and any 3 other papers, or music and any 4 other papers.

*Comm.* (bus. admin.). Matric. subjs. : Engl. (2 papers), another lang. (2 papers) ; algebra and one other maths. paper ; and any 3 other papers.

*Pure sci.* (a) Matric. subjs. : Engl. (2 papers), another lang. (2 papers) ; algebra, geom., trig., chem. and phys. (b) Required standing : an over-all average of 60 per cent., plus an average of 60 per cent. in maths. and sci.

*Nursing.* Matric. subjs. : Engl. (2 papers), another lang. (2 papers) ; bot., chem., zool. ; and any 2 other papers.

*Appl. sci.* (engin.). Matric. subjs. and required standing : algebra, geom., trig. (60 per cent. average) ; chemistry and physics (60 per cent. average) ; Engl. (2 papers) ; *either* another lang. (2 papers) or 2 papers from bot., geog., hist., zool. (60 per cent. over-all average and grade XII, i.e. jr. matric., lang. also required.)

5. Mature matric. : mature students may be excused part of the normal sr. matric. requirements at the discretion of the cttee. on admissions.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

*U.S.A.* (a) Graduation from a U.S. high school will admit to the prelim. yr. provided the applicant has completed at least 16 academic units, incl. 4 units in Engl., and sequences (at least 2 and preferably 3 units) in each of maths., sci., social studies and one foreign lang. An applicant for arts may substitute addtl. units in another foreign lang. for either maths. or sci. (b) In addition the applicant must receive a favourable recommendation from his principal, be ranked in the upper half of his class, and obtain a score on a psychological exam. satisfactory to the cttee. on admissions.

*Latin America.* For admission to the prelim. yr. an applicant must present a cert. showing satisfactory completion of the *bachillerato universitario* necessary for admission to univ. in his own country.

*U.K.* The G.C.E. (or an equivalent cert. from elsewhere in the Commonwealth) will admit to the prelim. yr. provided it indicates satisfactory completion of 5 subjs. at the ordinary level (3 of which must be Engl., another lang., maths.). If 2 of the 5 subjs. are at the advanced level, the G.C.E. will admit to first yr., provided the subjs. chosen are appropriate to the course to which admission is sought.

### BISHOP'S

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 20.\*

2. Other certs. listed as acceptable equivalents : no. 24.\* Other equivalent certs. will also be accepted. *See also C below.*

3. General requirements : subjs. accepted for entry are classified in 3 groups : *group I*—Engl. (2 papers), French (2 papers), Latin (2 papers) ; maths. (algebra and geom.) ; *group II*—biol., chem., geog., German (2 papers), Greek (2 papers), hist., inter. algebra, N. American lit., phys., Spanish (2 papers), trig. ; *group III*—agric., arts and crafts, household sci., music. \*

4. Specific requirements :

*Arts, bus. admin.* (a) Matric. subjs. (10 papers) : Engl. and 2 other subjs. (6 papers) from group I ; the remaining 4 papers may be from groups I, II and III, with not more than one from group III.

(b) Required standing : an average of at least 70 per cent. with no failures ; however, a student may be admitted with an average between 65 and 70 per cent. if he has high marks in arts subjs.

*Sci.* (a) Matric. subjs. (10 papers) : Engl., maths. and one other subj. (6 papers) from group I ; the remaining 4 papers may be from groups I, II and III, with not more than one from group III. The subjs. chosen from group II should include at least 2 of : biol., chem., phys. (b) Required standing : an average of at least 70 per cent. with no failures ; however, a student may be admitted

with an average between 65 and 70 per cent. if he has high marks in sci. subjs.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 21.\*

2. Other certs. listed as acceptable equivalents : no. 25.\* Other equivalent certs. will also be accepted. *See also B 3 below.*

3. General requirements : satisfactory standing in 5 subjs. at the sr. matric. level may be accepted as the equivalent of a full 1st yr. Teachers holding the Quebec Permanent or Advanced Elementary Cert. shall be granted credit for the 1st yr. of the arts course.

### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

*U.S.A.* Students from the U.S.A. will be admitted on the basis of the Coll. Entrance Exam. Bd. (2) aptitude tests, and achievement tests in Engl. and 2 other subjs.

## BRITISH COLUMBIA

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 30.\*

2. Other certs. listed as acceptable equivalents : none listed, but equivalent certs. will be accepted.

3. General requirements : minimum age, 16 yrs.

4. Specific requirements :

*Arts, sci., agric., educn.* Cert. no. 30,\* or the equivalent. Students entering arts and sci. with the intention of entering appl. sci., archit., or for. after one yr. are advised to offer jr. matric. standing in chem., maths. and phys.

*Home economics.* As for arts and sci., preferably including standing in home econ.

*Phys. educn.* As for arts and sci., preferably including standing in chem.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : first yr., fac. of arts and sci., Univ. of British Columbia.

2. Other certs. listed as acceptable equivalents : no. 31.\* Other equivalent certs. will also be accepted.

3. General requirements : a student, qualified for admission, who has cert. no. 31\* or its equivalent, may be given credit for not more than 5 subjs. in the first yr. of the fac. of arts and sci., the fac. and coll. of educn., or the fac. of agric. For admission to appl. sci., archit., nursing, pharmacy, for., or comm. & bus. admin. a student must have completed the first yr. in arts and sci.

at the Univ. of British Columbia (which is recommended) or its equivalent at an approved univ. or by sr. matric.

4. Specific requirements :

*Arts, sci., home econ., phys. educn., agric., educn.* A student qualified for admission and who has cert. no. 31\* or its equivalent may be given credit for subjs. passed which meet the requirements of the first yr.

*Appl. sci.* (a) Required subjs. : Engl., maths., chem., phys., and one of : Latin, French, German, Russian. (b) Required grades : 60 per cent. in maths., chem. and phys., and 50 per cent. in other subjs.

*Comm. & bus. admin.* (a) Required subjs. : Engl., maths., and 3 others.

*For.* (a) Required subjs. : bot. or phys.; chem.; Engl.; maths.; and one other.

*Nursing.* (a) Required subjs. : Engl.; chem.; zool., or biol.; maths.; and one other. (b) Required grades : 60 per cent. in either chem. or zool., or an over-all average of at least 60 per cent. In other subjs. at least 50 per cent. is required.

*Pharmacy.* (a) Required subjs. : chem.; Engl.; maths.; phys. or zool. or biol.; and one other. (b) Required average : 60 per cent.

### C. Students from Abroad

(a) General : a student from a country where Engl. is not the common lang. must satisfy the registrar that his knowledge of Engl. is adequate to permit the successful pursuit of his studies.

All foreign students, and students who have not matriculated from a high school where Engl. is the lang. of instructn., shall report for screening tests on the Friday preceding the week of registration ; students who fail so to report may be denied admission to the univ. No such student shall be allowed to register before he has taken the screening test. The cttee. in charge of the preparatory Engl. classes shall, upon reading the screening tests, recommend as to the students' admission and to the level and no. of courses in which registration should be permitted. A student for whom the preparatory Engl. course is prescribed must attend classes in this subj. regularly if he wishes to continue with his univ. course. He will be admitted to the credit courses in Engl. and certain other subjs. only after he has achieved reasonable competence in the work of the preparatory classes.

Advanced standing granted to a student on the basis of work completed in other countries will be tentative only, and is subject to review after the student has completed one or more sessions at this univ.

A student coming directly from another country must give satisfactory evidence of his ability to meet the costs of tuition, board and room, books, and incidentals.

(b) Standing : certs. are evaluated in terms of the requirements stated above.



**U.K.** The G.C.E. is accepted as jr. matric. if it includes ordinary level standing in Engl. (lang. & lit.), another lang., maths., a lab. sci., or a 2nd foreign lang., and either hist. or geog. or an approved option. No student is admitted unless he has met these requirements in full. Credit is then given at the sr. matric. level for approved subjs. passed at the advanced level for the G.C.E. An applicant with acceptable ordinary level standing may be exempted from the pre-engin. (appl. sci.), pre-for. or pre-comm. yr. in arts and sci. if he has 3 appropriate subjs. at the advanced level. For appl. sci. (engin.)—maths., phys. and chem. are required; for comm.—Engl., maths. and one other subj.; for for.—chem., maths. and either bot. or phys. Three advanced level subjs. will admit to the 2nd yr. of arts, sci., agric. or educn. Such subjs. as art, religious knowledge, mechanical drawing, etc., are not recognized for admission at either jr. or sr. matric. levels.

**West Indies.** The minimum requirement for admission is a Cambridge Oversea School Cert., grade I or grade II, incl. Engl. (lang. & lit.), another lang., a lab. sci., maths., and either hist. or geog. or an approved option such as a 2nd sci. or a 2nd lang. No student is admitted unless he has met these requirements in full. The G.C.E. of a British examining body is acceptable provided it shows ordinary level standing in the required subjs. These certs. admit to the 1st yr. of the 4-yr. course leading to the degree of BA or BSc. Credit is given at the sr. matric. level for approved subjs. passed at the principal level on the Higher School Cert. or at the advanced level on the G.C.E.

**Hong Kong, China.** In general, a student from Hong Kong or China must have reached an educn. level which would admit him to the Univ. of Hong Kong, and must have taken the subjs. required for admission to the Univ. of British Columbia. A student who has matriculated in the Univ. of Hong Kong with 2 subjs. at the advanced level, incl. Engl., another lang. (which may be Chinese), maths., a lab. sci., and either hist. or geog. or an approved option such as a 2nd sci. or a 2nd lang. may be admitted to the Univ. of British Columbia. No student is admitted unless he has met these requirements in full.

## CARLETON

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 24.\*

2. Other certs. listed as acceptable equivalents : nos. 3, 5, 7, 9, 20, 22, 26, 30,\* and completion of grade XI in Alberta or Saskatchewan. Other equivalent certs. will also be accepted.

4. Specific requirements : *arts, comm., journalism, sci.* (a) Matric. subjs. : (1) Engl.; (2) maths. (algebra and geom.); (3) hist.; (4) a lang. other than Engl.; (5) sci. (phys. and chem., or agric. sci.) or an addtnl. lang.; (6) one of : music, art, home econ., commercial work, geog., shop work,

agric., an addtnl. lang. (b) Required average : at least 60 per cent.

5. Mature matriculation : A person over the age of 23 years who, though lacking the admission requirements specified above, can give evidence of the likelihood of success in univ. studies, may be admitted *on trial*. If he completes successfully the subjs. of the 1st yr., his matric. will be confirmed and he will be given credit for the yr.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 25.\*

2. Other certs. listed as acceptable equivalents : nos. 6, 8, 21, 23, 27, 28, 29, 31.\* Other equivalent certs. will also be accepted.

3. General requirements : (a) admission will be granted to the 2nd yr. of arts, comm., journalism or sci., or to the 1st yr. of engin., to candidates who offer (1) jr. matric. or mature matric. as prescribed in A above and, in addition, (2) completion of 1st yr. or attainment of cert. no. 25\* or an equivalent cert. with required standing in 5 appropriate subjs.; (b) no more than 5 sr. matric. subjs. taken in a secondary school may be counted toward a Carleton degree.

4. Specific requirements :

*Arts.* Matric. subjs. : Engl. composition & lit.; a lang. other than Engl.; maths. (2 or 3 of algebra, geom., trig.) or an addtnl. lang.; a sci. (biol. or chem. or phys.); one other, preferably hist.

*Comm.* Matric. subjs. : Engl. composition & lit.; a mod. lang. other than Engl.; maths. (algebra, geom. and trig.); a sci. (biol. or chem. or phys.); one other, preferably hist.

*Engin.* (a) Matric. subjs. : Engl. composition & lit.; maths. (algebra, geom., incl. analytic geom., and trig.); phys.; chem.; one of : Latin, Greek, French, German, Spanish, Italian, hist., biol. (bot. and zool.). (b) Standing required. 1st or 2nd class standing in maths., phys. and chem.

*Journalism.* Matric. subjs. : Engl. composition & lit.; a lang. other than Engl.; maths. (2 or 3 of algebra, geom., trig.) or Latin; a sci. (biol. or chem. or phys.); one other, preferably hist.

*Sci.* (a) Matric. subjs. : Engl. composition & lit.; a lang. other than Engl.; maths. (algebra, geom. and trig.); 2 of : phys., chem., biol. (b) Standing required : at least 3rd-class standing in maths. and sci. subjs.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

**U.K.** The G.C.E. is recognized as equivalent to cert. no. 25\* if the candidate offers passes in 6 subjs., including 2 at the advanced level. The Scottish Higher Leaving Cert. is also equated to cert. no. 25.\*

\* See pp. 1338-1340

**DALHOUSIE****A. Admission at Junior Matriculation level**

1. Cert. in terms of which requirements are expressed : no. 7.\*

2. Other certs. listed as acceptable equivalents : nos. 1 and 5.\* Other equivalent certs. will also be accepted.

3. General requirements : (a) minimum age, 16 yrs. ; (b) the univ. conducts matric. exams. in Sept. of each yr., applicn. for which must be received by mid-Sept. Applicn. for exam. at an outside centre should be made one month earlier, and permission will be granted only in exceptional circumstances.

**4. Specific requirements :**

*Arts, sci., comm., engin., nursing, pharmacy* (Maritime Coll. of Pharmacy). (a) Matric. subjs. : (1) Engl., (2) algebra, (3) geom., (4) a lang. other than Engl., (5) any three of : hist., phys., chem., biol., trig., Latin, Greek, French, German, Spanish. (A student who, by reason of race or trg., is fluent in a lang. other than those listed in (5) may offer it instead of one of them.) (b) Required standing : a mark of 50 per cent. in each subj. with an average of 60 per cent.

*Music.* (a) Jr. matric. as for arts, (b) a grade VIII cert. in a practical musical subj. from the Maritime Conservatory of Music, or its equivalent, and (c) the theoretical subjs., incl. aural tests, and rudiments of music and harmony, required for the cert. named in (b).

**B. Admission at Senior Matriculation level**

1. Cert. in terms of which requirements are expressed : no. 8.\*

2. Other certs. listed as acceptable equivalents : none listed, but equivalent certs. will be accepted.

3. General requirements : credit may be given for a max. of 5 subjs. of the 1st yr., but conditions are attached to the granting of such credit for maths. and sci. subjs.

**C. Students from Abroad**

Certs. are evaluated in terms of the requirements above. Note permission to offer a lang. other than Engl., other than those listed. (See A 4 (a) above.)

**UNIVERSITY OF KING'S COLLEGE**

Admission requirements are those of the fac. of arts and sci. of Dalhousie Univ.

**LAVAL****A. Admission to the second stage ('cours collégial') of the Arts programme in affiliated 'collèges classiques' and to the 'collège universitaire'**

1. Cert. in terms of which requirements are expressed : no. 11.\*

2. Other certs. listed as acceptable equivalents : none listed.

3. General requirements : completion of the *cours secondaire* and success in the *immatriculation exam.*, no. 11.\*

**B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school**

1. Cert. in terms of which requirements are expressed : no. 16.\*

2. Other certs. listed as acceptable equivalents : none listed.

3. General requirements : (a) 4 copies of a recent photograph ; (b) letter of recommendation from the candidate's pastor ; (c) cert. of birth or baptism ; (d) cert. of vaccination ; (e) the prerequisite dipl. ; (f) cert. of admission to the appropriate professl. body. In all cases admission may be granted to a candidate presenting the *baccalauréat ès arts*. One presenting a lesser qualif. ordinarily will be required to take an *examen d'admission* set by the univ.

**4. Specific requirements :**

*Agric., fisheries, pharmacy, sci. and engin., surveying and for. engin.* Cert. no. 16 (*scientifique*).\*

*Comm.* Cert. no. 16 (*spéciale* or *scientifique*).\*

*Dom. sci.* Cert. no. 11 or no. 16.\*

**C. Students from Abroad**

Certs. are evaluated on the basis of the requirements stated above.

*U.K.* The G.C.E. is accepted for admission to sci., engin., for., comm. and agric.

**McGILL****A. Admission at Junior Matriculation level**

1. Cert. in terms of which requirements are expressed : no. 22.\*

2. Other certs. listed as acceptable equivalents : nos. 3, 5, 7, 9, 18, 20, 24, 26, 30,\* and completion of grade XI in Alberta or Saskatchewan. Other equivalent certs. will also be accepted. See also C below.

3. General requirements : (a) minimum age, 16 yrs. ; (b) a confidential report from the principal of the applicant's school is required ; (c) students whose native lang. is not Engl. must satisfy the univ. that their command of written and spoken Engl. is adequate ; (d) in June and Aug. of each yr. the univ. conducts the exams. of its Jr. School Cert., the examinations set being as follows : Engl. (lit. & composition), French (written & oral), algebra, geom., chem., phys., bot., biol., inter. algebra, trig., German (2 papers), Spanish (2 papers), Latin (2 papers), Greek (2 papers), general hist., British hist., Canadian hist., geog., drawing, music.

\* See pp. 1338-1340

## 4. Specific requirements :

*Agric.* (Macdonald Coll.). Matric. subjs. (10 papers): Engl.; hist.; Latin or French or German or Spanish (French preferred); elem. algebra and elem. geom.; phys. or chem. or biol.; either Latin, French, German or Spanish (if not already chosen) or 2 of the following papers not already chosen: inter. algebra, trig., bot. or biol. (not both), chem., phys., drawing, geog., British or Canadian hist.

*Arts.* (a) Matric. subjs. (10 papers): Engl.; general hist.; Latin or Greek; French (written & oral) or Greek or Latin (the one not already chosen) or German or Spanish; elem. algebra and elem. geom.; one of: biol., bot., chem., drawing, geog., phys., music, inter. algebra, trig., Canadian or British hist., a lang. not already chosen (the average of the 2 lang. papers is counted). (b) Standing required: an average of at least 65 per cent. If neither Latin nor Greek is included the average required is 70 per cent.

*Comm.* As for arts or sci.

*Educn.* (Macdonald Coll.). (a) As for arts or sci. (b) Students applying for admission by means of cert. no. 20\* may offer agric., household sci. or N. American lit. as optional papers. (c) Candidates are also required to meet the Admissions Cttee. of the School for Teachers before their applicns. are approved.

*Engin., archit.* As for sci.

*Household sci.* (Macdonald Coll.). As for agric. except that music is an addnl. option. Music and drawing may not both be chosen.

*Music.* (a) Matric. subjs. (10 papers): Engl.; general hist.; French, German, Latin, Spanish or Greek; elem. algebra or elem. geom.; music—practical: instrument or voice 9 for candidates seeking admission to the MusB programme in either composition or school music; instrument or voice 11 for MusB in performance. Theoretical: theory 9; 3 of: biol., bot., chem., art, geog., phys., inter. algebra, trig., British or Canadian hist., a lang. not already chosen. (b) Required average: at least 65 per cent.

*Phys. and occupnl. therapy.* (a) Sex—female. (b) Matric. subjs. and required standing: as for sci.

*Phys. educn.* As for educn., notes (a) and (b) above.

*Sci.* (a) Matric. subjs. (10 papers): Engl.; general hist.; French (written & oral) or German; elem. algebra and elem. geom.; one of: biol., bot., chem., phys.; either Latin, Spanish, French or German (if not already chosen) or any 2 of the following papers not already chosen: inter. algebra, trig., biol. or bot. (not both), chem., geog., phys., British or Canadian hist., music or drawing (not both). (b) Required standing: an average of at least 70 per cent. Special consideration may, however, be given to BSc candidates who have secured an average of 65 per cent. to 70 per cent.

and have shown distinction in subjs. related to the course they wish to enter.

## B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 23.\*

2. Other certs. listed as acceptable equivalents: nos. 6, 8, 19, 21, 25, 27, 28, 29, 31.\* (Other equivalent certs. will also be accepted. See also C below.

3. General requirements: (a) a candidate may be considered for admission to the 2nd yr. of the fac. of arts and sci. or the fac. of engin. if he has jr. matric. as prescribed in A above and sr. matric. as prescribed below; (b) in June and Aug. of each yr. the univ. conducts the exams. of its Sr. School Cert., the exams. set being as follows: Engl. (lit. & composition), accountancy, biol., chem., drawing, French (2 papers), geog., German (2 papers), Greek (2 papers), hist., Latin (2 papers), maths. (3 papers), music, Spanish (2 papers), phys.

## 4. Specific requirements :

*Arts.* (a) Matric. subjs.: Engl.; Latin or Greek; maths. (for which, under certain conditions, a substitute may be offered); 2 of: hist., Latin or Greek (the one not already chosen), French, German, Spanish, sci. (phys., chem. or biol.), music, geog. (b) Required standing: an average of at least 70 per cent. Special consideration may, however, be given to candidates who have an average of 65 per cent. to 70 per cent. if they have obtained high standing in Engl., langs., hist.

*Comm.* (a) Matric. subjs.: Engl.; maths. (algebra, and trig.—or co-ordinate geom. as for sci.); accountancy (for which, under certain conditions, a substitute may be offered); a mod. lang. other than Engl.; one of: hist., a 2nd lang. other than Engl., a sci. (incl. geog.). (b) Required standing: as for arts, with special consideration to those with an average of 65 per cent. to 70 per cent. and high standing in Engl., hist., maths.

*Engin., archit.* (a) Matric. subjs.: Engl.; maths. (all 3 papers); phys.; chem.; one of: French, German, Spanish, Latin, Greek, hist., biol., geog. (b) As in note (c) for sci.

*Sci.* (a) Matric. subjs.: Engl.; maths. (algebra and trig.) [Candidates who have passed jr. matric. trig. may offer co-ordinate geom. instead of sr. matric. trig., and are advised to offer co-ordinate geom. if they intend to study for hons. in maths., phys. or chem.; phys.; chem.]; one of: French, German, Spanish, Latin, Greek, hist., biol., geog. (b) Required standing: as for arts, with special consideration to those with an average of 65 per cent. to 70 per cent. and high standing in maths., phys., chem., biological sci. (c) A candidate who has jr. matric. French may satisfy the sr. matric. German requirement by offering jr. matric. German.

## C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

**U.S.A.** (re admission at jr. matric. level). All candidates from the U.S.A. must write the tests conducted by the Coll. Entrance Exam. Bd. Applicants should preferably write the Jan. or March tests, taking the scholastic aptitude test and 3 achievement tests, the latter chosen in consultation with the school principal. In addition, applicants must submit their complete high school record and should arrange for a confidential letter from the school principal or other competent officer to be mailed directly to the univ. Further particulars are obtainable from the registrar of the univ.

**U.K.** For admission at the jr. matric. level: the G.C.E. with passes at the ordinary level in 5 subjs. (other than religious knowledge), chosen in accordance with fac. requirements. For admission at the sr. matric. level: the G.C.E. with passes in 5 subjs. at the ordinary level and, in addition, in 2 appropriate subjs. at the advanced level.

## McMASTER

### A. Admission at Junior Matriculation level

None.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 25.\*

2. Other certs. listed as acceptable equivalents: nos. 6, 8, 21, 23, 27, 29, 31.\* Other equivalent certs. will also be accepted.

3. General requirements: certs. nos. 24 and 25,\* or the equivalent, the latter showing standing in 5 subjs., comprising 9 papers with an average of at least 60 per cent.—Engl. (2 papers); a lang. other than Engl. (2 papers); an addnl. lang. (2 papers) or maths. (2 papers); and 3 addnl. papers—chosen to meet the specific requirements of the course to which admission is sought.

#### 4. Specific requirements:

**Arts** (general and philosophical studies; social studies), **comm.** Matric. subjs.: as listed in B 3 above.

**Arts** (lang. & lit. studies). Matric. subjs.: Engl., 2 langs. other than Engl., and 3 addnl. papers.

**Engin.** As for sci. but with an average of at least 64 per cent.

**Nursing.** Matric. subjs.: as listed in B 3 above, preferably incl. chem. as one of the '3 addnl. papers'.

**Sci.** Matric. subjs.: Engl., a lang. other than Engl., maths. (algebra, geom. and trig.), chem. and phys.

5. Mature matriculation: candidates over 21

yrs. of age, even though they may not meet the ordinary entrance requirements, may apply for admission. Their applicants will be considered on their merits.

## C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

**U.S.A.** A student from the U.S.A. may be admitted to yr. I on submitting a cert. of high school graduation recognized by the Coll. Entrance Bd. of the region from which he comes, plus an addnl. yr. of study in a recognized univ. The attention of such students is especially directed to the subj. requirements for admission to McMaster Univ.

**U.K.** Students offering the G.C.E. should have 5 subjs., 2 of them at the advanced level and the others at the ordinary level. Subj. requirements are as outlined in B above, with the advanced level subjs. appropriate to the course desired. Students entering sci. should have at the advanced level at least 2 of: chem., phys., pure or appl. maths. Students entering engin. should have at the advanced level: chem. or phys., and pure or appl. maths.

## MANITOBA

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 26.\*

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: required standing is either (a) pass, at one sitting, in all the subjs. prescribed for complete jr. matric., or (b) pass, at 2 or more sittings, in all the subjs. prescribed for complete jr. matric. with an average of at least 60 per cent.

#### 4. Specific requirements:

**Arts and sci., fine arts, home econ.** Matric. subjs.: Engl.; social studies (Canadian hist.); maths.; a 2nd lang. (Latin, French or German); sci. (phys., chem. or biol.); one of: another lang. (Latin, French or German), another sci., music, home econ., general shop, art, commercial work, or geog.

**Interior design.** (a) Matric. subjs. as for arts and sci. French is the preferred lang. other than Engl. (b) Required average: at least 60 per cent.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 27.\*

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: sr. matric. or completion of the 1st yr., admits to the 2nd yr. of arts and sci., fine arts or home econ. Sr. matric., or

completion of the 1st yr. of arts and sci., admits to the 1st yr. of agric., archit., engin., pharmacy or comm. Full requirement is 5 subjs. : no advanced standing will be granted to a student who offers fewer than 5 sr. matric. subjs.

#### 4. Specific requirements :

*Agric.* Matric. subjs. : Engl. ; maths. ; phys. ; chem. ; and one of : another lang. (French, German or Latin), biol., hist.

*Archit., engin., pharmacy.* Matric. subjs. : Engl. ; maths. ; phys. ; chem. ; and one of : French, German, Latin.

*Arts and sci.* Matric. subjs. : Engl. ; maths. ; one of : French, German, Latin ; and 2 of : phys., chem., biol., mod. hist., music, another lang. (Students intending to enter sci. must include both phys. and chem.)

*Comm.* (a) Matric. subjs. : Engl. ; maths. ; one of : French, German, Latin ; and 2 of : phys., chem., biol., mod. hist., music, another lang. (b) Required average : at least 63 per cent.

*Fine arts.* Matric. subjs. : Engl. ; hist. or a lang. other than Engl. ; one of : phys., chem., biol. ; and 2 others. 5 sr. matric. subjs. must be offered but advanced standing can be given for only 4 because art, the 5th subj. in the 1st yr. of fine arts, is given only at the univ.

*Home econ.* Matric. subjs. : Engl. ; chem. ; biol. ; one of : hist., maths., phys., French, German ; and one other. 5 sr. matric. subjs. must be offered but advanced standing can be given for only 4 because art, the 5th subj. in the 1st yr. of home econ., is given only at the univ.

#### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above. A placement test in the Engl. lang. is given on the Monday preceding registration to all entering students whose native tongue is not Engl.

*Hong Kong.* Applicants from Hong Kong must present evidence of having reached the matric. standard of the Univ. of Hong Kong or an equivalent standard. Those who offer advanced level standing in maths., phys. or chem. will be given sr. matric. credit for not more than 2 of them.

*West Indies, Nigeria.* Students from these areas must present evidence of having attained a 1st or 2nd class Cambridge Oversea School Cert. or an equivalent standard. Applicants with the Higher School Cert., or the G.C.E. with passes at the advanced level, will be given credit for not more than 5 1st-yr. subjs. in arts and sci. (i.e. one course-yr.).

### MEMORIAL, NEWFOUNDLAND

#### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 3.\*

2. Other certs. listed as acceptable equivalent

lents : none listed, but equivalent certs. will be accepted.

3. General requirements : minimum age, 16 yrs.

4. Specific requirements (effective 1961-62) : *arts, educn., sci., comm.* (a) Matric. subjs. : Engl. lit. & Engl. lang. ; maths. (algebra, geom. & trig.) ; hist. ; one of : French, German, Greek, Latin, Spanish ; one of biol., chem., gen. sci., phys. (b) Required average : at least 55 per cent.

#### B. Admission at Senior Matriculation level

No published regns.

#### C. Students from Abroad

Admission is dealt with on an individual basis, in terms of the requirements stated above.

### MONTREAL

#### A. Admission to the second stage ('cours collegial') of the Arts programme in affiliated 'collèges classiques'

1. Cert. in terms of which requirements are expressed : no. 11.\*

2. General requirement : completion of the *cours secondaire* and success in the *immatriculation* exam., no. 11.\*

#### B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school

1. Cert. in terms of which requirements are expressed : nos. 11, 16.\*

2. Other certs. listed as acceptable equivalents : equivalent certs. will be accepted.

3. General requirements : (a) birth cert. ; (b) cert. of vaccination ; (c) 3 copies of a recent photograph ; (d) cert. of good conduct signed by a recognized authority (collegiate, univ. or religious) ; (e) complete record of prerequisite studies (in French, Engl. or Latin or translated into one of these langs.). In most cases admission may be granted to a candidate presenting the *baccalauréat ès arts*. One presenting a lesser qualif. may be required to take an entrance exam. set by the univ.

#### 4. Specific requirements :

*Arts* (course for adults offered by the univ.), *comm.* (École des Hautes Études Commerciales), *music.* Cert. no. 16.\*

*Nutrition.* The course of the 1st yr. is that of *immatriculation senior* offered by the fac. of sci. Candidates may be admitted with certs. nos. 11 or 15\* or the equivalent, or completion of the 11<sup>e</sup> année.

*Pedagogy.* Cert. no. 11.\*

*Sci., engin.* (École Polytechnique), *vet. med.*

(École de Médecine Vétérinaire). Cert. no. 16  
(scientifique).<sup>\*</sup>  
Social sci. Cert. no. 16 (spéciale).<sup>\*</sup>

5. Special courses for adults: the extension dept. of the univ. offers special evening and summer courses for adults in arts (see above). Minimum age for admission: 20 yrs.

### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

## MOUNT ALLISON

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 9.<sup>\*</sup>
2. Other certs. listed as acceptable equivalents: nos. 1, 3, 4 and 5.<sup>\*</sup> Other equivalent certs. will also be accepted.
3. General requirements: (a) to be admitted to a regular course leading to a degree a student must have jr. matric. standing with at least 50 per cent. in each of 7 subjs. and an average of at least 60 per cent.; (b) students, especially those of mature yrs., who cannot meet these requirements may apply to the cttee. on admissions for a ruling; (c) the univ. holds matric. exams. in Sept.
- 4.<sup>\*</sup> Specific requirements:

*Arts, sci., comm., secretarial sci., fine arts, engin., home econ.* Matric. subjs.: Engl.; algebra; geom.; a lang. other than Engl.; and 3 options chosen from chem., phys., biol., geol., geog., hist., econ., music, trig., and not more than 2 other lang. subjs. Another subj. approved by the cttee. on admissions may be offered in place of one of the electives named above.

*Music.* As for arts, but with music as one of the chosen options. The entrance requirement in music is grade IV standing in a practical subj. and a knowledge of the rudiments of music.

5. Mature matric.: see 3 (b) above.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no specific cert.
2. Other certs. listed as acceptable equivalents: no. 6.<sup>\*</sup> Other equivalent certs. will also be accepted.
3. General requirements: a student who has completed jr. matric. or the equivalent and has a mark of 50 per cent. or more in certain subjs. of sr. matric. standing, or the equivalent, will get credit for corresponding 1st yr. subjs. up to the number of five. Conditions are attached, however, to the granting of such credits in maths., chem. and phys.
4. Specific requirements:

*Engin.* Students who have completed sr. matric. in Engl. and French or hist., and have 70

per cent. or over in maths., phys., and chem., may enter the 2nd yr. of the engin. course provided that work completed in phys. and chem. is considered adequate.

*Teaching.* Students with complete jr. matric. who hold a 1st class licence obtained after one yr. in an approved teacher trg. inst. with an average mark of 65 per cent. will be allowed to proceed to the degree of bachelor of teaching.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

*U.S.A.* A satisfactory transcript from a high school of recognized standing and a statement from the principal, recommending the student for admission to univ. (jr. matric. level).

*U.K. and West Indies.* The G.C.E., or equivalent, is accepted if the required subjs. are included and is equated to jr. or sr. matric. depending on evaluation of the individual cert. and the conditions under which it was obtained. Credit in a 1st-yr. subj. is allowed for any one subj. at advanced level for the G.C.E.

*Hong Kong.* Univ. of Hong Kong matric., or equivalent, is required for admission.

*Europe.* European certs. which admit the student to a European univ. are equated to sr. matric.

## MOUNT SAINT VINCENT COLLEGE

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 7.<sup>\*</sup>
2. Other certs. listed as acceptable equivalents: equivalent certs. will be accepted.
3. General requirements: (a) admission restricted to women; (b) every candidate for entrance is required to present: (1) an applicn. filled out by the student, (2) satisfactory references, business and social, and (3) an official transcript of her high school record; (c) all candidates for a degree must satisfy the requirement for matric., either by presenting acceptable certs. or by passing matric. exams.
4. Specific requirements:

*Arts, elementary educn.* Matric. subjs.: Engl.; Latin or Greek; algebra; geom.; hist.; a mod. lang. other than Engl.; one elective.<sup>§</sup>

*Music.* Matric. subjs.: Engl.; French; German; hist.; algebra or geom.; 2 electives.<sup>§</sup>

*Sci. (pure).* Matric. subjs.: Engl.; algebra; geom.; hist.; a mod. lang. other than Engl.; 2 electives,<sup>§</sup> one of them from the field of sci.

*Home econ.* Matric. subjs.: Engl.; a mod. lang. other than Engl.; hist.; algebra and geom.; a sci.; one elective.<sup>§</sup>

*Secretarial studies.* Matric. subjs.: Engl.; a mod. lang. other than Engl.; hist.; algebra and geom.; 2 electives.<sup>§</sup>

<sup>\*</sup> See pp. 1338-1340.

<sup>§</sup> Electives may be chosen from the following: hist. (anc., mediæv., mod., Canadian, Engl. or U.S.), sci. (phys., chem., bot. or biol.), econ., algebra, geom., or trig., where not already required.

**Nursing.** Matric. subsj.: Engl.; algebra; geom.; a lang. other than Engl.; a sci.; 2 electives chosen from hist., phys., chem., biol., econ., trig.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 8.\*

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: a student who has completed jr. matric., and who holds a cert. indicating that she has done work in advance of that standard, may be allowed to take a degree in 3 yrs.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

## NEW BRUNSWICK

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 9.\*

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: (a) the following subsj. of New Brunswick Jr. Matric., or its equivalent, are required for entrance to the 1st yr. at the univ.: algebra, geom., Engl., and 4 of: biol., chem., French, hist., Latin, phys., sr. maths. (trig.); (b) required standing: 50 per cent. in each subj. and an average of at least 60 per cent.

4. Specific requirements:

*Arts.* General requirements as in A 3, preferably incl. French.

*Bus. admin., phys. educn.* General requirements as in A 3.

*Sci., engin., for.* General requirements as in A 3, preferably incl. sr. maths. (trig.), phys. and chem.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: successful completion of the freshman yr. of the univ.

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: (a) candidates will be accepted for entrance to the 2nd yr. of courses other than that leading to the degree of bachelor of teaching if they have completed the freshman yr., or present equivalent certs. of another province or univ.; (b) the univ. conducts a sr. matric. exam. in Sept.

4. Specific requirements: *teaching.* In addition to the jr. matric. requirements a 1st class licence obtained after 1 yr. in a teacher-trg. institution, with an average grade of 65 per cent., is required for admission to the bachelor of teaching course.

### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

## NOVA SCOTIA AGRICULTURAL COLLEGE

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 7.\*

2. Other certs. listed as acceptable equivalents: nos. 3, 5 and 9.\* Other equivalent certs. will also be accepted.

3. General requirements: all candidates for admission to the degree course in agric. must (a) be at least 16 yrs. of age, (b) be of good moral character, (c) present a med. cert. dated not more than 30 days previous to registration, (d) have at least one season's farm experience, (e) have an acceptable matric. cert.

4. Specific requirements: *agric.* Matric. subsj.: Engl. (2 papers); algebra; geom.; 2 of: chem., phys., biol., 2 of: hist., econ., a lang. other than Engl.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 8.\*

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: students with at least 60 per cent. in sr. matric. Engl. will be granted an exemption from the 1st-yr. class in Engl. No other exemptions will be granted for sr. matric. standing.

4. Specific requirements: candidates who look forward to completing their course at the Ontario Agric. Coll. should possess a cert. at the sr. matric. level, with standing in Engl., algebra, trig., chem., phys., and a lang. other than Engl.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above. Candidates presenting the G.C.E. must have standing at the ordinary level (at least) in the subjects listed in A 4 above.

## NOVA SCOTIA TECHNICAL COLLEGE

Students are admitted only by transfer from other colls. and univs., after completion of 3 yrs. of engin. studies beyond the jr. matric. level.

## OTTAWA

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 24.\*

2. Other certs. listed as acceptable equivalents:

\* See pp. 1338-1340

nos. 3, 5, 7, 9, 11, 15 (*scientifique*), 20, 26, 30 \* ; completion of grade XI in Alberta or Saskatchewan. Other equivalent certs. will also be accepted.

3. General requirements : (a) applications for admission must be received by Sept. 1 ; (b) at the time of application each candidate must ensure submission to the registrar of an official transcript of academic record and a letter of recommendation, and with his applic. he must pay an applic. fee of \$5 (not refundable) and include 2 passport-size photographs.

#### 4. Specific requirements :

*Arts, comm., educn., home econ., phys. educn., and soc., econ., and pol. sci.* (a) Matric. subjs. : Engl., French, hist. (anc. & mod.), maths. (algebra and geom.), and one of : Greek, Latin, German, Spanish, Italian, sci. (phys. and chem.), geog., agric. (b) Required average : at least 60 per cent. (c) Candidates for hon. courses must have obtained at least 3rd class hon. in the subjs. related to the hon. courses they plan to enter.

*Nursing.* Matric. subjs. : Engl., French, maths. (algebra and geom.), sci. (phys. and chem.), hist. (anc. & mod.), and one of : Latin, Spanish, Italian, commercial work, household sci., art, music, agric.

*Sci., engin.* (a) Matric. subjs. : French, Engl., maths. (algebra and geom.), sci. (phys. and chem.), hist. (anc. & mod.), and one of : Latin, German, Spanish, Italian. (b) Required standing : at least 60 per cent. in each of the maths. and sci. subjs. and an over-all average of at least 60 per cent.

5. Mature matriculation : candidates 21 yrs. of age or over who have not obtained matric. standing but have, through personal study, acquired an educn. deemed sufficient, may be admitted conditionally. If they successfully pass the 1st 5 exams. they may pursue their studies on the basis of this 'adult' matric.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 25.\*

2. Other certs. listed as acceptable equivalents : nos. 6, 8, 16, 23, 27, 28, 29, 31.\*

3. General requirements : as outlined in A 3. above. Note, however, that applicns. for admission to the fac. of med. must be received by Aug. 1.

#### 4. Specific requirements :

*Arts, comm., educn., home econ., phys. educn., social sci.* Normally candidates with cert. no. 25 \* or the equivalent will be admitted to the 2nd yr. providing they have an average of at least 60 per cent.

*Med.* For admission to the 1st pre-med. yr. the candidate should have cert. no. 25 \* or the equivalent with hon. standing in : French (composition & lit.), Engl. (composition & lit.), maths. (2 of algebra, geom., trig.), chem., phys., and one of : hist., bot., zool., a 3rd maths. paper, a 3rd lang.

*Sci., engin.* Completion of the 1st yr. in the fac. of sci. of the univ., or presentation of cert. no. 25 \* or the equivalent with standing in : Engl. and French, and an average of at least 60 per cent. in each of chem., phys. and maths. (algebra, geom. and trig.). A candidate with a *baccalauréat* (sci. option) will be admitted.

#### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

### QUEEN'S

#### A. Admission at Junior Matriculation level

None, but jr. matric. as well as sr. matric. is required for admission to applied sci. and nursing.

1. Cert. in terms of which requirements are expressed : no. 24.\*

2. Other certs. listed as acceptable equivalents : nos. 3, 5, 7, 9, 20, 22, 26, 30,\* and completion of grade XI in Alberta or Saskatchewan.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 25.\*

2. Other certs. listed as acceptable equivalents : nos. 6, 8, 21, 23, 27, 28, 29, 31.\* Other equivalent certs. will also be accepted. See also C below.

3. General requirements : certs. nos. 24 and 25,\* or the equivalent, with required standing in 5 subjects. Grade XIII (cert. no. 25\*) exams. are held in the following subjs. : Latin, Engl., hist., maths. (algebra, geom., trig.), Greek, German, French, Spanish, Italian, music, phys., chem., biol. and geog. The pass standard is 50 per cent. in each paper.

#### 4. Specific requirements :

*Arts and sci.* (a) Matric. subjs. : Engl. ; Latin or maths. (at least 2 papers) ; a lang. other than Engl., which may be Latin if maths. is offered ; and 2 other subjs. (b) Required average : at least 60 per cent. (c) Candidates offering only 4 of the subjs. specified may be admitted providing they have at least 2nd class hon. standing on 3 of them. These students are 'conditioned' in the subj. in which they lack standing and they may remove this condition by writing off the grade XIII paper or papers in the subj. concerned or by taking an extra course at the univ. (d) Candidates for admission to hon. courses should offer the 2 subjs. which will be the major and minor for the degree of BA or BSc (hons.) and 3 others chosen from the compulsory courses on the degree programme they wish to follow.

*Appl. sci. (engin.).* (a) Jr. matric. standing must include Engl. and another lang. (b) Sr. matric. subjs. and minimum standing required : Engl. ; maths. (algebra, geom., incl. analytical geom., and trig., with an average of at least 60 per cent.) ; phys. (with at least 60 per cent.) ; chem. (with at



least 60 per cent.); and one of: a lang. other than Engl., hist., biol. (bot. and zool.), geog. (c) Candidates who have had practical engin. trg. or who are otherwise specially qualified for an engin. course may be admitted at the discretion of the fac., on conditions to be determined in each case, even though they do not present precisely the subjs. named above.

*Comm. and bus. admin.* (a) Matric. subjs.: Engl., maths. (3 papers) or Latin, a lang. other than Engl., which may be Latin if maths. is offered; and 2 other subjs. (b) Required average: at least 60 per cent. (c) A student may enter with 4 subjs. under conditions similar to those outlined for arts above. (d) Students from high schools of comm. may offer grade XIII standing in maths. of investment in place of algebra as part of the requirement in maths.

*Med.* Matric. subjs. (a min. of 9 papers) for admission to the 1st pre-med. yr.: Engl.; maths. (2 of algebra, geom., trig., preferably incl. trig.); one of: Latin, Greek, French, German, Italian, Spanish; chem.; phys.; one of: bot., zool., hist., a maths. paper not already chosen, another lang., geog.

*Nursing.* (a) Jr. matric. standing must include phys. (b) Sr. matric. subjs.: Engl., chem., biol. and 2 other subjs. (c) Required average: at least 60 per cent. (d) When possible a personal interview with the dir. of the school is arranged.

*Phys. and health educn.* (a) Matric. subjs.: Engl.; maths. (at least 2 papers, one of which should be trig.); a lang. other than Engl.; chem.; phys. (b) Required average: at least 60 per cent.

5. Mature matriculation: unmatriculated candidates for admission to extra-mural instructn. who are over 23 yrs. of age, or alternatively, if 21 and if they have been out of school for at least 2 yrs., may be admitted 'conditioned' in the subjs. of matric. which they lack, if they satisfy the bd. of studies that they can undertake univ. work with profit. *See also note (c) under appl. sci.*

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

*U.K.* Certs. considered equivalent to no. 25\* include the Scottish Higher Leaving Cert., and the G.C.E. in at least 5 subjs. of which 2 must be at the advanced level.

## ROYAL MILITARY COLLEGE OF CANADA

### A. Admission at Junior Matriculation level

None, but those with jr. matric. standing may be admitted to another of the 3 Canadian Services Colls., Collège Militaire Royal de Saint Jean, in the 'preparatory yr.'

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no particular cert.; students are admitted from all provinces of Canada.

2. Other certs. listed as acceptable equivalents: *see above.*

3. General requirements: (a) sex—male; (b) citizenship—Canadian citizen, or British subject resident in Canada with status of a landed immigrant; (c) marital status—must be single and remain so until commissioned; (d) health—must be medically fit for enrolment in the Service of his choice; (e) age—on 1st Jan. of the yr. of entrance the candidate must have reached his 16th birthday but not his 21st. Consent of parents or guardian is required if he is under 18.

4. Specific requirements: *arts, engin., sci.* Matric. subjs.: Engl.; French or hist. (preferably French); phys.; chem.; maths. (algebra, geom. and trig.).

### C. Students from Abroad

Students from abroad must meet all requirements, including those of citizenship stated in B 3 (b).

*U.K.* Students presenting the G.C.E. should offer ordinary level standing in Engl.; French or hist.; and chem.; and advanced level standing in maths. and phys.

## SAINT DUNSTAN'S

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 4.\*

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted. Those presenting 'equivalent' certs. must meet specific requirements listed in 4 below.

3. General requirements: successful completion of the high school course in Prince Edward Island (cert. no. 4)\* or the grade XII cert. of St. Dunstan's High School.

4. Specific requirements (applicable to those who offer certs. other than those mentioned in para. 3 above):

*Arts.* Matric. subjs.: Engl., Latin, French, hist., algebra, geom., and phys. or chem. or biol.

*Sci.* Matric. subjs.: Engl., French, hist., algebra, geom., phys. and chem.

*Comm.* Matric. subjs.: Engl., French, hist., algebra, geom.; and 2 of: Latin, phys., chem., biol.

Students who offer credits in different but equivalent subjs. will be accepted but may be required to do remedial work in order to qualify for admission to specific univ. courses required by their programme.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 2.\*

\* See pp. 1338-1340

2. Other certs. listed as acceptable equivalents : none listed, but equivalent certs. will be accepted.
3. General requirements : credit may be given for subjs. of the freshman yr., except for phys., chem., econ.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above. Students from colls. or high schools in the Orient are required to present evidence of successful completion of 'lower level form six' or the equivalent for admission at the jr. matric. level.

## SAINT FRANCIS XAVIER

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 7.\*
2. Other certs. listed as acceptable equivalents : nos. 1, 5, 9, 20, 24.\* Other equivalent certs. will also be accepted.
3. General requirements : (a) each candidate for admission is requested to present a letter of recommendation from his pastor or from some other person known to the univ. authorities ; (b) a candidate for admission to the freshman yr. must either pass the univ. matric. exams. (given in Sept.) or present a cert. showing that he has sufficient academic preparation ; (c) prelim. applicn. for admission should be made before Aug. 1.
4. Specific requirements : *arts, comm., engin., home econ., sci.* (a) Matric. subjs. : Engl. ; a mod. lang. ; hist. ; algebra ; geom. ; 2 of : Latin, phys., chem., biol., another hist., another lang. (b) Required standing : an average of at least 60 per cent. with a minimum of 50 per cent. in each subj. (c) A student not sufficiently prepared to follow a univ. course in any subj. will be required to take a preparatory course in that subj.
5. Mature matriculation : students of mature age may be admitted as special students on the basis of a satisfactory score on a coll. aptitude test. Satisfactory standing in an assigned course of studies will fulfil matric. requirements for degree candidacy.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 8.\*
2. Other certs. listed as acceptable equivalents : none listed, but equivalent certs. will be accepted.
3. General requirements : (a) see A 3 (a) above ; (b) unless a student has made an excellent record in his grade XII work, he will require 4 yrs. to complete a univ. degree course.
4. Specific requirements :

*Arts, sci., etc.* Credit may be given for a maximum of 5½ subjs. (32 semester hours) of the

freshman yr., but conditions are attached to the granting of such credit for maths. and sci. subjs.

*Nursing.* Jr. matric. as for arts or sci., plus a sr. matric. cert. : no. 8 \* or the equivalent.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

## SAINT JOSEPH'S

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 10.\*
2. Other certs. listed as acceptable equivalents : no. 9.\* Other equivalent certs. will also be accepted.
3. General requirements : applicn. for admission must be made before Aug. 15 and must be accompanied by (a) an official and detailed transcript of academic record, (b) a cert. of good character and (c) a cert. of good health from a physician.
4. Specific requirements :  
*Arts.* Matric. subjs. : Engl., French, Latin, algebra, geom., hist., phys., chem.  
*Sci., engin., comm.* As for arts, except that Latin is not required.  
*Music.* Cert. no. 9,\* plus grade IX standing in music.  
*Home econ.* Cert. no. 9,\* or an equivalent cert.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no specific cert.
2. Other certs. listed as acceptable equivalents : no. 16.\*
4. Specific requirements : *Comm.* Candidates holding cert. no. 16 (*scientifique*) \* will be admitted to the 2nd yr.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

## SAINT MARY'S

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 7.\*
2. Other certs. listed as acceptable equivalents : nos. 1, 5 and 9.\* Other equivalent certs. will also be accepted.
3. General requirements : (a) applicn. for admission must be accompanied by (1) a testimonial of good character, (2) official matric. cert., (3) a recent photograph (passport size), (4) a \$3 applicn. fee if the applicant is not a resident of Canada, (5) where necessary, a cert. stating that the student's mastery of Engl. is such as to enable him to

follow courses at univ. level; (b) to be admitted to the univ. as an undergrad. a candidate must offer credit in 7 matric. subsjs.; (c) for admission to any of the courses for which only one lang. other than Engl. is required, the jr. matric. standing must be 50 per cent. in each subj. with a general average of 60 per cent.

#### 4. Specific requirements:

**Arts.** Matric. subsjs.: Engl.; Latin; French; algebra; geom.; and 2 of: chem., phys., biol., hist., econ., another lang.

**Comm.** Matric. subsjs.: Engl.; French, German or Spanish; algebra; geom.; and 3 of: chem., phys., biol., hist., econ., another lang.

**Sci.** Matric. subsjs.: Engl.; French or German; algebra; geom.; and 3 of: chem., phys., biol., hist., econ., another lang.

**Engin.** Matric. subsjs.: Engl.; French or another lang. other than Engl.; algebra; geom.; chem.; phys.; and one of: biol., trig., hist., econ., another lang.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 8.\*

2. Other certs. listed as acceptable equivalents: nos. 2 and 6\* and the cert. of the 1st yr. of Memorial Univ. of Newfoundland. Other equivalent certs. will also be accepted.

3. General requirements: credits may be given for a max. of 5 subsjs. of the 1st yr., but in all subsjs. a mark of 60 per cent. is required and further conditions are attached to the granting of such credit in maths. and sci. subsjs.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above. Note requirement of cert. of facility in the Engl. lang. See A 3 above.

## SASKATCHEWAN

### A. Admission at Junior Matriculation level

None, but those with jr. matric. standing may be admitted to the (sr.) matric. course at Regina Coll.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 28.\*

2. Other certs. listed as acceptable equivalents: cert. of the matric. course at Regina Coll. Other equivalent certs. will also be accepted.

3. General requirements: (a) minimum age, 16 yrs.; (b) satisfactory standing in six subsjs. (see 4 below): (1) cert. no. 28\* with an average of 60 per cent., (2) an equivalent cert., (3) the matric. course at Regina Coll., or (4) the matric. exams.

conducted by the univ. in Aug.; (c) for combined courses in two colls. (facs.) the admission requirements of both colls. must be met.

#### 4. Specific requirements:

**Agric.** Matric. subsjs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths (algebra, combined geom. and trig.); (4) chem.; (5) biol. or phys.; (6) one other: a lang., hist. of Engl. lit., agric. econ., an addnl. sci. (biol., phys., or geol.), art, or agric.

**Arts and sci.** Matric. subsjs.: (1) Engl. (lit. & composition); (2) another lang.; (3) social studies (hist.); (4) maths. (algebra, combined geom. and trig.) or Latin (students intending to take a lit. course should offer Latin; those intending to take a scientific course should offer maths.); (5) a sci. (biol., chem. or phys.); (6) one other: a lang., a sci. (incl. home econ., geol.), maths., music, agric. econ., hist. of Engl. lit., or art.

**Comm.** Matric. subsjs.: (1) Engl. (lit. & composition); (2) another lang.; (3) social studies (hist.); (4) maths. (algebra, combined geom. and trig.); (5) a sci. (biol., chem. or phys.); (6) one other: another lang., a sci., home econ., music, agric. econ., bus. econ., hist. of Engl. lit., or art.

**Educn.** Cert. no. 28\* or its equivalent with an average of at least 60 per cent. Applicants should note, however, that certain academic classes may be selected for the BED curriculum only if they are sequent to subsjs. studied in grade XII.

**Engin.** Matric. subsjs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) another lang.; (5) chem.; (6) phys.

**Home econ.** Matric. subsjs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) another lang.; (5) chem.; (6) one other: another lang., a 2nd sci. (incl. geol.), home econ., hist. of Engl. lit., or art.

**Nursing.** Matric. subsjs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) another lang.; (5) chem.; (6) one other: another lang., biol., phys. (preferred), geol., or home econ.

**Pharmacy.** Matric. subsjs.: (1) Engl. (lit. & composition); (2) social studies (hist.); (3) maths. (algebra, combined geom. and trig.); (4) another lang.; (5) chem.; (6) one other: biol., phys., geol., another lang., hist. of Engl. lit., art, music, home econ., or agric. econ.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

**U.K.** Candidates offering the G.C.E. should have passes in 5 suitable subsjs. (other than religious knowledge), 2 or 3 at the ordinary level and 2 or 3 at the advanced level, depending on the course of study to be followed at the univ. The 5 subsjs. must in all cases include Engl., maths. and a sci. (chem., phys. or biol.).

\* See pp. 1338-1340

For admission to arts and sci., comm., engin., home econ., nursing and pharmacy the 5 subjs. should include a lang. other than Engl. (French, German or Latin) at the advanced level. For admission to agric., home econ. and pharmacy the 5 subjs. should include chem. at the advanced level. For admission to engin. and nursing the 5 subjs. should include chem. and phys. at the advanced level. For admission to agric., a scientific course in arts and sci., comm. and engin., the 5 subjs. should include maths. at the advanced level. No special papers, other than those mentioned in the previous para., are required for admission to educn.

Comparable regns. govern those presenting the Higher School Cert.: for passes at the ordinary level, G.C.E., read passes at the School Cert. level; for passes at the advanced level, G.C.E., read passes at the Higher School Cert. level.

**Hong Kong.** (a) The minimum requirement is passes in 5 subjs. of the Matric. Exam. of the Univ. of Hong Kong, 2 at the ordinary level and 3 at the advanced level. The 5 subjs. must in all cases include Engl., maths. and a sci. (chem., phys. or biol.) and specific requirements are as outlined above for candidates presenting the G.C.E. (b) A confidential letter of recommendation from the applicant's school principal also is required and must be sent by the principal direct to the registrar, Univ. of Saskatchewan. (c) Each applicant for admission must report to the Canadian Dept. of Citizenship and Immigration in Hong Kong to take a test of his knowledge of Engl. and have that dept. forward a cert. to the registrar, Univ. of Saskatchewan. The applicant also may be required to take a test of his knowledge of Engl. after his arrival at the univ. and if it is not satisfactory he will not be permitted to register.

## SHERBROOKE

### A. Admission to the second stage ('cours collégial') of the Arts programme in affiliated 'collèges classiques' and to the 'collège universitaire'

1. Cert. in terms of which requirements are expressed: no. 11.\*
2. Other certs. listed as acceptable equivalents: nos. 13, 15.\*
3. General requirements: completion of the *cours secondaire* and success in the *immatriculation* exam., no. 11.\* A candidate for admission to the 'collège universitaire' who has not cert. no. 11, 13 or 15\* must take the admission exam. of the 'collège'.

### B. Admission to certain degree courses in the University proper by a certificate of completion of secondary school

1. Certs. in terms of which requirements are expressed: nos. 11, 13, 16.\*
2. Other certs. listed as acceptable equivalents: equivalent certs. will be accepted.

3. General requirements: (a) birth cert.; (b) cert. of vaccination; (c) 4 copies of a recent photograph; (d) cert. of good conduct signed by a recognized authority (collegiate, univ. or religious); (e) complete record of prerequisite studies. In all cases admission may be granted to a candidate presenting the *baccalauréat ès arts* (often with advanced standing). One presenting a lesser qualif. may be required to take an entrance exam. set by the univ.

#### 4. Specific requirements:

**Arts** (course for adults offered by the univ.). Cert. nos. 11, 13 or 15,\* or the equivalent.

**Comm.** Cert. nos. 11 or 15.\*

**Dom. sci.** As for comm.

**Engin.** Cert. nos. 16 or 17.\*

**Hospital sci.** Cert. nos. 11 or 13.\*

**Music.** Cert. nos. 11 or 13,\* plus dipl. in music.

**Pedagogy.** As for comm.

**Sci.** Cert. nos. 16 (*scientifique*) or 12,\* or completion of the 3rd yr. of the *cours technique* in a provincial *institut de technologie*.

5. Special course for adults: the fac. of arts offers a special course for adults, in arts (see above). Minimum age for admission: 20 yrs.

## C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

## SIR GEORGE WILLIAMS

### A. Admission at Junior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 20.\*
2. Other certs. listed as acceptable equivalents: nos. 3, 4, 5, 7, 9, 12, 18, 22, 26, 30\* ; the graduation dipl. of Sir George Williams High School. Other equivalent certs. will also be accepted, but students will not be accepted at the jr. matric. level on the basis of Ontario grade XII (cert. no. 24\*) nor on completion of grade XI in Alberta or Saskatchewan. However, students presenting Ontario grade XIII (cert. no. 25\*), Alberta grade XII (cert. no. 29\*) or Saskatchewan grade XII (cert. no. 28\*) may be admitted at the sr. matric. level.

3. General requirements: in addn. to the specific requirements listed below, students entering the day div. must also present a satisfactory report from a high school principal. The coll. may at its discretion require certain students to take prescribed tests. Students whose mother tongue is not Engl. must show, on certain tests administered by the coll., that they have sufficient knowledge of the Engl. lang. to be able to follow a coll. programme conducted in that lang.

#### 4. Specific requirements:

**Arts.** Cert. no. 20,\* or the equivalent, with an average of at least 60 per cent. on 10 papers, incl. Engl. lit. & composition.

*Comm.* As for arts, but incl. Engl. lit. & composition, and algebra.

*Sci.* As for arts, but incl. Engl. lit. & composition, algebra, geom. and at least one sci.

5. Mature matriculation : persons over 21 yrs. of age who have not satisfied the technical requirements for high school graduation but who have the capacity to do coll. work are admitted as 'conditioned' undergrads. in arts, comm. or sci. (but not engin.) by fulfilling the special entrance requirements for persons over 21 yrs. of age, details of which may be obtained from the registrar.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 21.\*

2. Other certs. listed as acceptable equivalents : none listed, but equivalent certs. will be accepted.

4. Specific requirements :

*Arts, comm., sci.* Students presenting sr. matric. certs. will, in general, be given credit in the 1st yr., course for course, for subjs. completed. Owing to the special requirements of the curricula of the coll. it is not possible for a student to obtain complete 1st-yr. standing in this way. Deficiencies may be made up, however, during the remainder of the course provided that they are not too great and, further, that the student does the extra work necessary.

*Engin.* Students must have completed the 1st yr. of sci. or present cert. no. 21 \* or its equivalent with the following subjs. : Engl. (lit. & composition) ; maths. (algebra, trig., analytic geom.) ; general phys. ; inorg. chem. ; and one other subj.

#### C. Students from Abroad

Certs. are evaluated on the basis of the requirements stated above.

*U.S.A.* These certs. are treated as at the jr. matric. level : the Coll. Entrance Bd. Cert. ; the Bd. of Regents Cert., State of New York ; the graduation dipl. of accredited high schools.

*U.K.* Candidates who have 6 subjs. on the G.C.E. at the ordinary level are admitted to the 1st yr. of arts, sci. or comm. Credit towards the degree is given for subjs. passed at the advanced level.

### TORONTO

#### A. Admission at Junior Matriculation level

None.

#### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed : no. 25.\*

2. Other certs. listed as acceptable equivalents : nos. 6, 8, 21, 23, 27, 28, 29, 31.\* Other equivalent certs. will also be accepted. *See also C below.*

#### 3. General requirements :

(a) Minimum age for admission : med., 17 ; household sci., 16 ; for., 17.

(b) A candidate for admission to the 1st yr. must present cert. no. 25 \* or an equivalent cert., showing standing in one subj. from each of the following 5 groups, with an average of at least 60 per cent. in the 9 required papers : (1) Engl. ; (2) Latin, maths. (2 papers) ; (3) French, German, Greek, Italian, Latin, Russian, Spanish ; (4) a lang. other than Engl., 2 of : algebra, geom., trig., bot., chem., phys., zool. ; (5) hist., music, a lang. other than Engl. (2 papers), maths. (one paper), sci. (one paper), geog.

(c) *Facility in the Engl. lang.* All candidates are required to submit evidence, acceptable to the univ., of facility in the Engl. lang. Submission of one of the following will satisfy this requirement. (1) standing, in accordance with the general admission requirements in Engl. (*see B 3 (b) above*) on cert. no. 25 \* or other certs. recognized by the univ. ; (2) the cert. of proficiency in Engl. issued by the Univs. of Cambridge or Michigan, or satisfactory achievement in the Univ. of Michigan English lang. test. (Details regarding these may be secured from the registrar, Univ. of Toronto.) The univ. is also prepared to consider other evidence that may be submitted.

#### 4. Specific requirements :

*Agric.* (Ontario Agric. Coll.). General requirements as in B 3 above, incl. maths. (any 2 papers), phys. and chem.

*Appl. sci. and engin.* General requirements as in B 3 above, incl. maths. (3 papers), phys. and chem. with an over-all average of 64 per cent in the 9 required papers. For entry to the engin. phys. course candidates must have an average of at least 75 per cent. in algebra, geom., trig. and phys.

*Archit.* General requirements as in B 3 above, incl. maths. (3 papers with an average of 60 per cent.), phys. and chem.

*Arts.* General requirements as in B 3 above, plus specific requirements regarding choice of subjs. and required standing, varying for the various honour courses.

*Comm. and finance.* General requirements as in B 3 above, incl. maths. (3 papers). Required average on 9 papers : 64 per cent.

*Dent.* General requirements as in B 3 above, incl. maths. (2 papers), phys. and chem. (*Note* : 3 maths. may be required in the session 1962-63.)

*For.* General requirements as in B 3 above, incl. maths. (3 papers), phys. and chem.

*Household sci.* Univ. of Toronto : general requirements as in B 3 above, incl. maths. (any 2 papers) and sci. (2 papers) ; Macdonald Inst. : as for Univ. of Toronto except that sci. papers must be chem. and one of bot., phys., zool.

*Med.* General requirements as in B 3 above, incl. maths. (3 papers), phys. and chem. Jr. matric. standing in Latin is recommended.

**Music.** (a) 4 subjs. (exclusive of music) with an average of 60 per cent., incl. Engl.; Latin or maths. (2 papers); a lang. other than Engl. if Latin is not offered. (b) Music requirements (Royal Conservatory of Music of Toronto): (1) theory: grade II theory and grade III harmony; (2) performance: Ontario grade XIII music with R.C.M.T. grade VI piano, or R.C.M.T. grade VI (practical) in singing or an instrument with grade VI piano, or R.C.M.T. grade VIII (practical) in piano or organ, or R.C.M.T. grade VIII (practical) in singing or an instrument.

**Nursing.** General requirements as in B 3 above, preferably incl. chem. and zool.

**Pharmacy.** As for dent.

**Phys. and health educn.** General requirements as in B 3 above, preferably incl. chem. and phys.

**Sci. (pure).** General requirements as in B 3 above, incl. maths. (3 papers) and sci. (2 papers), plus specific requirements regarding choice of subjs. and required standing, varying for the various honour courses.

**Vet. med.** (Ontario Vet. Coll.). As for agric.

### C. Students from Abroad

(a) Certs. are evaluated on the basis of the requirements stated above.

**U.S.A.** A U.S. high school graduation dipl. will not admit to any course. 1st yr. coll. credits (a minimum of 30 semester hrs.) in the required subjs. from approved institutions will be accepted as the equivalent of Ontario grade XIII (cert. no. 25)\*. It is regretted that consideration cannot be given to applicns. for admission to the facs. of med. and dent.

**U.K.** G.C.E. showing at least 4 subjs. at ordinary level and 2 subjs., appropriate to the course to which entry is sought, at advanced level.

(b) Note requirement of cert. of facility in the Engl. lang. See B 3 (c) above.

## • WESTERN ONTARIO

### A. Admission at Junior Matriculation level

None, but students may enter the 'prelim. yr.' at affiliated colls. (Huron Coll., Coll. of Christ the King and Ursuline Coll.) at the jr. matric. level and in that yr. prepare for admission to the univ. at the sr. matric. level.

1. Cert. in terms of which requirements are expressed: no. 24.\*

2. Other certs. listed as acceptable equivalents: none listed, but equivalent certs. will be accepted.

3. General requirements: all candidates who apply with less than 9 papers in grade XIII (cert. no. 25\*) and who have not passed in 6 papers (3 complete subjs.) of grade XIII with an average of 60 per cent. (a) must have an average of 60 per cent. in grade XII (cert. no. 24\*) and (b) must

take the entire prelim. yr. with no advance credit except in a subj. in which the papers average at least 66 per cent.

4. Specific requirements: (a) matric. subjs.: Engl.; hist.; Latin or maths.; one of: Latin, Greek, French, Spanish, Italian, German; and one of: maths., sci., agric., music, geog., another lang.; (b) required average: at least 60 per cent.

5. Mature matriculation: adult students over 21 yrs. of age, who are without normal admission requirements and have been out of school for at least 2 yrs., may be admitted to the prelim. yr. if they have creditable results in a college aptitude test.

### B. Admission at Senior Matriculation level

1. Cert. in terms of which requirements are expressed: no. 25.\*

2. Other certs. listed as acceptable equivalents: equivalent certs. will be accepted. See C below

3. General requirements: jr. matric. as prescribed in A above, plus cert. no. 25\* or the equivalent with an average of 60 per cent. in Engl. (lit. & composition); Latin (2 papers) or maths. (2 papers); another lang. (2 papers); and 3 other papers selected according to the course the student wishes to enter. The grade XIII (cert. no. 25\*) subjs. are: Engl. (lit. & composition), maths. (algebra, geom., and trig. and statics), hist., Latin (2 papers), Greek (2 papers), French (2 papers), German (2 papers), Spanish (2 papers), Italian (2 papers), phys. sci. (chem. and phys.), biol. (bot. and zool.), geog., music, maths. of investment, accountancy practice, secretarial practice. (Note that a 'subj.' may include 1, 2 or 3 'papers'.)

4. Specific requirements:

**Arts, secretarial sci., journalism.** Matric. subjs.: Engl.; another lang.; Latin or maths. (2 papers); and 3 other papers. Students intending to take the hon. course in Engl. or in another lang. will offer another lang. among the '3 other papers'. Those entering hon. bus. admin. will include 2 maths. papers. Those entering hon. hist. will include hist. Those entering hon. maths. will include a 3rd maths. paper, and those entering hon. maths. and phys. will include also chem. and phys.

**Home econ., nursing.** Matric. subjs.: Engl.; another lang.; Latin or maths. (2 papers); bot., chem. and zool., with at least 60 per cent. in each of these 3 sci. papers.

**Music** (Music Teachers' Coll.). (a) Satisfactory results in audition test. (b) Matric. subjs.: Engl.; French; Latin or maths. (2 papers); music (grade VIII practical and grade II theory or grade IV theory); and one other paper, preferably hist.

**Phys. and health educn.** Matric. subjs.: Engl.; another lang.; Latin or, preferably, maths. (2 papers); biol. (bot. and zool.) or chem. and phys.; and one other paper, preferably hist.

*Sci., pre-med., engin.* Matric. subjs.: Engl.; another lang.; maths. (3 papers); chem. and phys. An average of at least 66 per cent. in maths. and sci. is advisable. For admission to the pre-med. course or to the honours course in biol., bot. or zool. may replace trig. and statics.

5. Mature matric.: a student 21 yrs. of age or over who has been away from formal education for at least 3 yrs. will be admitted and excused from further sr. matric. studies when he obtains standing at that level in Engl., another lang. and one other subj.

### C. Students from Abroad

Certs. are evaluated in terms of the requirements stated above.

*U.S.A.* Students with high school graduation dipl. should apply for admission to the prelim. year in one of the affiliated colls. or complete the freshman yr. in an accredited coll. or jr. coll. in the U.S.A. before seeking admission to the univ. at the sr. matric. level.

*U.K.* The local exams. formerly conducted for the School Cert. and the Higher School Cert. are accepted as sr. matric. standing in some subjs., providing that they were passed with 'credit' or higher standing. The G.C.E. is accepted as sr. matric. if it shows standing in 5 or 6 subjs. with at least 2 of them at advanced level. Engl. lit., a lang. other than Engl. and either maths. or an approved sci. must be included. For admission to sci. or engin., advanced level standing is required in chem., maths. and phys.

## (C) SOUTH AFRICA

**GENERAL.** The qualif. for entrance to a course of study for a first degree of any univ. in South Africa is the matric. cert. of the Joint Matric. Bd. for the nine univs. in South Africa, or a cert. of exemption issued by that bd. The bd. was establd. by act of parliament passed in 1916 and has conducted the matric. exam. since 1918. Before that the matric. exam. was conducted by the now defunct Univ. of the Cape of Good Hope. For all practical purposes, therefore, the only recog. qualif. for admission to a course of study for a first degree is the matric. cert. or the exemption cert. of the bd. A successful candidate at the matric. exam. may be awarded *either* a sch. leaving cert. *or* a matric. cert., depending upon the subjs. passed, the standards attained in specific subjs. and aggregate marks. The sch. leaving cert. is not an entrance qualif. for a course leading to a degree, although it may be accepted by the univs. for admission to courses of study leading to certain dipls. and certs.

**APPROVED SUBJECTS FOR THE MATRIC. EXAM.** The list of approved subjs. is as follows:

Section A. (1) Afrikaans (H. or L.)\*; (2) Engl. (H. or L.); (3) Nederlands (H. or L.); (4) German (H. or L.); (5) Bantu langs. (H. or L.); (6) Latin; (7) Greek; (8) French; (9) Hebrew; (10) Portuguese; (11) Italian; (12) maths.; (13) phys. sci. (not to be taken with 14 or 15); (14) phys.; (15) chem.; (16) biol. (not to be taken with 17 or 18); (17) bot.; (18) zool.; (19) geol.; (20) geog.; (21) hist.

Section B. (22) agric.; (23) housecraft & hygiene; (24) book-keeping & comml. arithmetic; (25) shorthand & typewriting; (26) addnl. maths. (may not be taken without maths.); (27) mech-

anics (may not be taken with phys. or without maths.); (28) art; (29) music.

No lang. may be taken on both the higher and the lower grade.

Candidates are required to take, at one and the same exam., not fewer than 6 or more than 7 subjs., and to pass in not fewer than 5 subjs. with not less than 33½ per cent. in each of the 5, and obtain a fixed min. aggregate, the aggregate for the matric. cert. being 1000 marks and that for the sch. leaving cert. being 800 marks. Candidates so passing obtain *EITHER sch. leaving certs.* of the subjs. passed incl. (i) an official lang. (*i.e.* Engl. or Afrikaans) § on the higher grade and (ii) another lang.; *OR matric. certs.*, if the subjs. passed incl. 4 subjs. in each of which the candidate has obtained the matric. standard of 40 per cent., viz. (I) an official lang. (*i.e.* Engl. or Afrikaans) on the higher grade; (II) the other official lang., on the higher or lower grade, or an approved Bantu lang. on the higher grade or Latin or Greek or French or German or Italian or Portuguese or Hebrew, (III) maths. or a sci.; (IV) maths. if not taken under (III) or another lang. from (II) or hist. or geog. or a Bantu lang. on the lower grade (provided that a Bantu lang. on the higher grade has not been offered under (II)) or other lang. in which the bd. decides to conduct an exam. Candidates who are awarded a matric. cert. must have *either* (i) included in their 4 subjs. maths. or an approved lang. other than Engl. or Afrikaans *or* (ii) taken maths. or an approved lang. other than Engl. or Afrikaans as a 5th subj., and obtained not less than 33½ per cent. of the total marks. *Note:* (i) as from Nov./Dec. 1963 an approved lang. other than Engl. or Afrikaans will be defined as Latin, Greek, French, German or an approved Bantu

\* H. = higher grade; L. = lower grade.

§ The medium of instructn. in the teaching univs. is predominantly either Engl. or Afrikaans, viz. Engl. at the univs. of Cape Town, Natal, Rhodes and the Witwatersrand, Johannesburg, and Afrikaans at the univs. of the Orange Free State, Potchefstroom, Pretoria and Stellenbosch. The Univ. of South Africa conducts exams. in both media for external students and it has a division of external studies which provides correspondence tuition in both media.

lang.; (ii) as from Nov./Dec. 1962 a candidate must have passed in *either* 2 langs. plus maths. or 3 langs. if he does not pass in maths.

The four provincial depts. of educn. in the union (Cape, Natal, Orange Free State and the Transvaal), and the Dept. of Educn., Arts and Sci., conduct exams. for a sr. cert. on syllabuses approved by the bd. These exams. are recognized by the bd. for exemption from its own matric. exam. subject to conditions prescribed by the bd.

**FACULTY AND DEPARTMENTAL REQUIREMENTS.** Although the bd.'s matric. cert. or cert. of exemption is the normal requirement for admission to a univ., certain subjs. are prescribed by the univs. as prerequisites for enrolment in some depts. or facs. A student is advised to have a broad general educn. and to take for the matric. cert. at least 2 of the subjs., maths., Latin, Greek, French, German, in addn. to both official langs., i.e. Afrikaans and Engl. Maths. is essential for agric., archit., engin., for., med. and quantity surveying, and highly desirable for courses in accty., land surveying and sci. A knowledge of Latin of matric. standard is necessary for law. Further particulars of fac. and deptl. requirements should be obtained direct from the registrars of the individual univs., *not* from the Joint Matric. Bd.

**OVERSEAS EXAMINATIONS.** The bd. recognizes for purposes of exemption sch. certs. issued by a number of overseas bodies if the certs. entitle the holder to unconditional admission to an approved univ. in the country of origin and the subjs. passed and the standard attained are in accordance with the bd.'s regns. for its own matric. cert. As examples, a credit in a subj. for the Cambridge Overseas Sch. Cert. is accepted as equivalent to a '40 per cent. pass', and a pass in a subj. for the Higher Cert. of the Oxford & Cambridge Schs. Exam. Bd. and a pass at ordinary level in the General Cert. of Educn. are similarly accepted. Exemption is given subj. for subj. (Engl. lang. but not Engl. lit., is recog. as fulfilling the requirement for exemption from Engl.). The bd. is, however, not prepared to recognize a Bantu lang. of the Cambridge Overseas Sch. Cert. as equivalent to a Bantu lang. at a South African exam. The bd. may issue either a cert. of full exemption or a cert. of conditional exemption which may be converted into a cert. of full exemption if the holder fulfils specified conditions within a prescribed time. For full exemption on the strength of the Cambridge Overseas Sch. Cert. or the General Cert. of Educn., the bd.'s requirements include passes in 2 subjs. at principal or advanced level.

Overseas qualifs. recog. by the bd. incl.: the Sch. Certs. awarded by each of the 8 examining bodies in England and Wales recog. by the Ministry of Educn. for England and Wales (*see below*); the General Certs. of Educn. awarded, in and after 1951, by the same 8 examining bodies; the Higher Sch. Certs. of 6 of these examining bodies (i.e. Oxford & Cambridge Schs. Exam. Bd.; Northern Jt. Matric. Bd.; London Univ.; Oxford Local Exams. Delegacy; Univ. of Cambridge Local Exams. Syndicate; Central Welsh Bd.); inter. exam., 1st class, of Indian univs.; matric. or other entrance cert. of other approved univs.; leaving cert. of educn. depts. or secondary schs. entitling holder to admission to an approved univ.; leaving certs. of educn. depts. of Scotland and Eire; Sr. Cert. of Educn. Dept., N. Ireland; Forces Prelim. exam.; Passing-out exam. of Royal Naval Coll., Dartmouth; Hoof-dakte (Holland); einddiploma of a gymnasium or hogere burgherschool with 5 yrs.' course (Holland); Akte van Bekwaamheid als Hoofdonderwijzer (Holland); dipl. of the Technische Hooogeschool (Delft); einddiploma of the Middelbare Technische Sch. (Holland); einddiploma of the Middelbare (or Koloniale) Landbouwschool (Holland); einddiploma, gymnasium, Holland; dipl. of the École Supérieure de Jeunes Filles, Switzerland; abiturium at a gymnasium or oberrealschule in Germany or Switzerland; maturitäts-zeugnis or zeugnis der reife at gymnasium or oberrealschule in Germany or Switzerland; baccalauréat (Bès Lettres, or Bès Sciences or BenDroit), France; Italian licenza di maturità classica and licenza di maturità scientifica; matric. cert. of the Ministry of Educn. & Culture, Israel; cert. of the 3rd cycle of a Portuguese Lyceum; Greek apolytirion.

**SPECIAL EXEMPTION.** Non-matriculated candidates over the age of 25 who desire to proceed to a degree and are not eligible for exemption under the ordinary regns. may, under certain conditions, be specially exempted from matric. on the recommendation of a univ. Such candidates cannot be admitted to a degree unless they have not only completed the curriculum for the degree but have also fulfilled any other conditions for exemption from the matric. exam.

*A full and official statement of the matric. requirements of the South African univs. is contained in the annual Matric. Exam. Handbook publ. by the Joint Matric. Bd., P.O. Box 392, Pretoria, South Africa. Full details of each univ.'s fac. and deptl. prerequisites, which are addnl. to the Joint Matric. Bd.'s requirements, should be obtained direct from the registrar of the univ., not from the Joint Matric. Bd.*



**(D) UNITED KINGDOM**

[This statement relates only to the admission of students proposing to take full courses for a first degree. For conditions relating to recognition of study at other univs. and admission for higher degrees, *see* pp. 806-808 and under the several univs., *above*. Provided that accommodation is available, students desiring to study in a univ. without intending to graduate may be admitted if they can satisfy the univ. authorities that they are qualified to profit by the course of study they propose to take.]

For details of the requirements for admission to individual univs., reference should be made to the pages listed below :

Aberdeen (pp. 1391, 1393)  
 Belfast (p. 1396)  
 Birmingham (pp. 1360, 1362)  
 Bristol (p. 1368)  
 Cambridge (p. 1370)  
 Durham (p. 1371)  
 Edinburgh (pp. 1391, 1393)  
 Exeter (p. 1372)  
 Glasgow (pp. 1391, 1394)  
 Hull (p. 1373)  
 Leeds (pp. 1360, 1364)  
 Leicester (p. 1375)

Liverpool (pp. 1360, 1365)  
 London (p. 1376)  
 Manchester (pp. 1360, 1367)  
 North Staffordshire (p. 1380)  
 Nottingham (p. 1381)  
 Oxford (p. 1383)  
 Reading (p. 1385)  
 St. Andrews (pp. 1391, 1396)  
 Sheffield (pp. 1360, 1367)  
 Southampton (p. 1387)  
 Sussex (p. 1389)  
 Wales (p. 1389)

Candidates for admission to a univ. in the United Kingdom must have passed the appropriate entrance exam. for that univ. or an alternative exempting exam. The principal exams. (indicated by a number in this Appendix for the purpose of reference) are as follows :

1. Oxford Responsions (held for last time in 1960).
2. Cambridge Previous exam. (held for last time in 1961).

General Certificate of Education exams. held by the following examining bodies :

3. Oxford and Cambridge Schools Exam. Board.
4. Univ. of Cambridge Local Exams. Syndicate.
5. Oxford Local Exams. Delegacy.
6. Southern Univs.' Joint Board for School Exams. (continues G.C.E. exams. conducted up to 1956 by Univ. of Bristol).
7. Univ. of Durham.
8. Univ. of London.
9. Joint Matric. Board of Manchester, Liverpool, Leeds, Sheffield and Birmingham.
10. Welsh Joint Education Committee.
11. Associated Examining Board.
12. Preliminary exam. of the Scottish Univs. Entrance Board.
13. Leaving Cert. exam. of the Scottish Education Department.
14. Senior Cert. exam. of the Ministry of Education, Northern Ireland.
15. Belfast matric. exam.

16. Univ. of Cambridge Local Exams. Syndicate's Oversea Cert. exams.: (a) School, (b) Higher School.
17. Army Special Cert. of Education exam.

The univs. also recognize certain exams. other than those enumerated above as qualifying for admission. These exams. and the conditions affecting them are referred to in the text below under each univ. or group of univs.

### **JOINT MATRICULATION BOARD OF THE UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD AND BIRMINGHAM**

*Secretary to the Board* : J. A. Petch, MA LL.D.  
 315 Oxford Rd., Manchester, 13

1. Before admission to a degree course in one of the five univs. which constitute the Joint Matric. Bd., a student must satisfy : (a) the requirements of the bd. which are concerned with general educn. and (b) any spec. fac. or deptl. requirements of the individual univ. concerned (*see below*, pp. 1362-1368). Completion of the requirements under (a) and (b) does not automatically give right of entry to a univ. To be accepted by a univ. a student must apply direct to the registrar of that univ. Full information regarding the bd.'s requirements may be obtained from the sec. to the bd., 315 Oxford Rd., Manchester, 13.

2. Until further notice, the univ. entrance requirements of the Joint Matric. Bd. will be satisfied by any one of the following qualifs. :  
 I. A General Cert. of Educn. which fulfils the

prescribed conditions (*see below*). II. A pass in the bd.'s exam. for candidates of mature yrs. (*see below*). III. A pass in the bd.'s exam. for candidates who have been engaged in industry or commerce (*see below*). IV. One of the qualifs. listed under section IV (*see p. 1362*) (the items in this list are subject to annual revision). V. Any qualif. which satisfied the bd.'s requirements in force at the date the qualif. was obtained.

### I. General Certificate of Education

3. The bd.'s univ. entrance requirements will be satisfied by a G.C.E. awarded by the bd. (or (A) or (B) only) by one of the examining bodies referred to in para. 4) which shows: **Either** (A) a pass in 6 subjs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) *either* maths. (para. 6) or an approved sci. (para. 7), (iv) at least 2 subjs. at the advanced level; *provided that* (1) The requirements under (A) must be shown on not more than 3 General Certs. (2) The required subjs. must be selected from the list given in para. 5, except that one, but only one, of certain 'technical' subjs. may be incl. as a subj. at ordinary level, whether passed at ordinary or advanced level. Details from the sec. (3) No subj. may be counted both at the ordinary and at the advanced level. **Or** (B) a pass in 5 subjs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) *either* maths. (para. 6) or an approved sci. (para. 7), (iv) at least 2 subjs. at the advanced level passed at the same sitting as at least one other of the 5 required subjs.; *provided that* (1) The required subjs. must be selected from the list given in para. 5. (2) No subj. may be counted both at the ordinary and at the advanced level. **Or** (C) passes, all at advanced level and at 1 sitting of the bd.'s exam., in general studies and in 2 other advanced subjs. chosen from the list given in para. 5 below.

4. The G.C.E. of the following examining bodies will be accepted under the same conditions as the bd.'s General Cert.; nos. 3-8, and 10.\* The requirements under para. 3 (A) and para. 3 (B) above may be fulfilled by a combination of certs. issued by more than one examining body. Applicants from holders of a G.C.E. awarded by No. 11\* are given individual consideration if gained before June 1959.

5. The following subjs. of the bd.'s G.C.E. exam. and the corresp. subjs. in the exams. of any of the bodies referred to in para. 4, will be accepted for the purposes of para. 3: (1) general paper; (2) Engl. lang.; (3) Engl. lit.; (4) hist.; (5) anc. hist. & lit. (may not be counted with hist.); (6) outlines of British govt.; (7) geog.; (8) econ.; (9) scripture knowledge; (10) art; (11) hist. & appreciation of art (may not be counted with art); (12) music; (13) Greek & Roman lit. in translation (may not be counted with Greek and/or Latin); (14) Greek; (15) Latin; (16) French; (17) German; (18) Spanish; (19) Italian; (20) Russian;

(21) Welsh; (22) spec. approved langs.; (23) maths.; (24) further maths.; (25) pure maths. with statistics; (26) pure maths.; (27) maths. & theoret. mechanics (counts as 2 advanced subjects but may not be counted with any of subjs. 23-26); (28) phys.; (29) chem.; (30) phys.-with-chem. (may not be counted with any of the following: phys., chem., general sci., agric. sci., bldg. sci.); (31) bot.; (32) zool.; (33) biol. (may not be counted with bot. and/or zool.); (34) geol.; (35) general sci. I; (36) general sci. II (general sci. I and/or II may not be counted with any of the following: phys., chem., phys.-with-chem., bot., zool., agric. sci., biol., bldg. sci.); (37) agric. sci. (may not be counted with phys., chem., phys.-with-chem., biol., general sci.); (38) physiol. and hygiene (may not be counted with zool. or biol.); (39) bldg. sci. (may not be counted with any of the following: phys., phys.-with-chem., general sci.).

*Note.*—Passes at advanced level in (24) further maths. and in either (23) maths. or (25) pure maths. with statistics, whether gained at the same or at separate sittings, will count as passes in two advanced subjs.; but (i) none of the four advanced subjs. (23) to (26) will count with a mathematical subj. at the ordinary level, (ii) pure maths. (advanced) will not count with any other mathematical subj., (iii) pure maths. with statistics (advanced) will not count with maths. (advanced).

6. Any of the subjs. (23)-(27) in para. 5 above will satisfy the requirement of maths. under para. 3 (A) (iii) and para. 3 (B) (iii).

7. Of the subjs. listed in para. 5, nos. (28) to (39) (both inclusive) are 'approved scis.' for the purposes of para. 3 (A) (iii) and para. 3 (B) (iii).

8. The bd. will accept subjs. of the Gen. Cert. exams. of examining bds. 3-11\* if it is satisfied that the syllabus of any such subj., even though it bears a different title, is substantially equivalent to a syllabus in one of the subjs. listed in its regns. in its own Gen. Cert. exam.

### II. Examination for Candidates of Mature Years

9. This exam. is to meet the needs of exceptional candidates permanently resident in the U.K. who have been unable to qualify at the normal time but show promise of obtaining more than ordinary success in a univ. course. The exam. may be taken only by candidates who desire to proceed to an approved course in one of the constituent univs. Candidates must be not less than 23 yrs. of age on May 1 of the year of exam.

### III. Examination for Candidates who have been engaged in Industry or Commerce

10. Permission to enter for this exam. is granted only to candidates permanently resident in the U.K. who are not less than 19 yrs. of age on

March 31 of the year of exam. and desire to proceed to a degree course in one of the constituent univs., having been engaged in full-time indust., technical or comml. employment for a period of at least 3 yrs. ; candidates must also have attended systematic courses of instructn. satisfactory to the bd. for a period of at least 3 yrs. and have gained at the end of the course a cert. or dipl. deemed satisfactory by the bd. Details from the sec.

#### IV. Other Qualifications accepted by the Board

11. A candidate will be regarded as satisfying the bd.'s requirements if he holds any one of the following if gained under regns. current on Jan. 1, 1960 : (a) A degree conferred by an approved univ. after exam. (b) A cert. showing that the holder is a barrister called to the English bar or a solicitor admitted on the rolls after passing the final exam. of the Law Society (*fac. of law only*). (c) **Either** (i) no. 12,\* or no. 13\* § provided that the candidate passed at one sitting of one of these exams. in 5 subjs. at the higher grade, such 5 subjs. to include at least 1 subj. of each of groups I, II and III of the bd.'s former Sch. Cert. exam. (each of the subjs. phys., chem., bot., zool. will be counted as one subj. if passed at the higher grade), **or** (ii) by a pass at not more than two sittings of no. 12\* or no. 13\* (or a pass at one sitting of no. 12\* together with a pass at one sitting of no. 13\*) in 4 subjs. at the higher grade and 2 subjs. at the lower grade, such 6 subjs. to incl. passes in Engl., an approved lang. other than Engl., and maths. (or an approved sci.). (d) **Either** (i) no. 14,\* provided that at one sitting after March 1, 1952, the candidate passed in Engl. lang., an approved lang. other than Engl., maths. (or an approved sci.) and 3 other approved subjs., at least 2 of the 6 required subjs. being passed at the advanced level, **or** (ii) no. 14,\* provided that the candidate has by means of this exam. fulfilled the demands of para. 3 (A) or (B) on p. 1361 ; for this purpose subjs. passed *with credit* at ordinary level will be accepted as equivalent to subjs. passed at ordinary level in a G.C.E. Subjs. passed at advanced level in no. 14\* are subject to approval by the bd. (e) The Leaving Cert. of the Dept. of Educn., Republic of Ireland, § provided that the candidate passed with hon. at one and the same sitting in 5 subjs. approved by the bd., such subjs. to incl. at least one subj. of each of groups I, II and III of the bd.'s former Sch. Cert. exam. (f) No. 17.\* (g) *For the time being and subject to review*, a dipl. in technol. awarded by a coll. in the U.K. approved for this purpose by the Natnl. Council for Technological Awards.

12. The following provisions apply to performances in Oversea Sch. Cert. and Higher Sch. Cert. exams. if conducted by one of the bodies referred to in para. 4 : (a) a *pass with credit* in a Sch. Cert. exam. or a *pass* in a subsidiary subj. (incl. 'sub-

sidary standard') in a Higher Sch. Cert. exam. will be accepted in lieu of a pass at the ordinary level in the G.C.E. exam. ; (b) a *pass* at principal standard in a Higher Sch. Cert. exam. will be accepted in lieu of a pass in the corresp. subj. at advanced level in the G.C.E. exam. (Acceptance of a *pass* at principal standard in subj. 22 of para. 5 is subject to the bd.'s approval ; a pass in subj. 1 of para. 5 is not accepted.)

13. The bd. will exercise discretionary power in accepting certs. of having passed other exams. of a standard which it deems to be satisfactory for university entrance purposes. It may, however, require a performance above the minimum prescribed for the award of certain certificates.

### BIRMINGHAM

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (*see above*, p. 1360) and (b) any relevant fac. and deptl. requirements (*see below*).

Min. age for entrance to all facs. of the univ. is 17 yrs.

#### Faculty and Departmental Requirements

**SCI.** Candidates for direct admission to the 1st year of a 1st degree course must have passed in 3 subjs. (at least 2 of which must be sci. subjs.) at advanced level of the G.C.E. exam. In special cases 2 advanced level subjs. only may be considered. The subjs. must constitute a suitable prelim. for the intended course :

#### Pure Science

**Maths.** 3 subjs., 2 of which must be maths. and phys. Alternative to phys. may be considered, but early applicn. essential with full account of circumstances.

**Mathl. phys.** Candidates should apply for admission to maths. or phys.

**Phys.** 3 subjs., 2 of which must be phys. and maths.

**Chem.** Chem. and 2 other subjs., normally phys. and maths. Applicants with biol. qualifs. will, however, be considered.

**Zool. and compar. physiol.** 3 subjs., one of which must be either biol. or zool. If chem. not passed at advanced level, alternative evidence of adequate knowledge of this subj. will be required.

**Bot.** 3 subjs., 2 of which must be (a) bot. or biol. and (b) chem.

**Genetics.** Normally students are admitted to hon. sch. of genetics at commencement of final yr. only, transfer being possible from hon. schs. of zool. and comparative physiol. and bot. and such other schs. as prof. of genetics may determine

\* *See above*, p. 1360.

§ The conditions for the acceptance of this cert. if gained before Jan. 1, 1952, will be supplied by the sec. to the bd. on request.

in consultation with prof. of the other hon. sch. concerned. In exceptional cases admittance may be obtained prior to final yr., in which case 3 subjs., 1 of which must be zool., bot. or biol., must have been passed at advanced level at one and the same G.C.E. exam.

*Microbiol.* 3 subjs., 2 of which must be sci. subjs., preferably chem. phys. or maths.; biol. or other qualifs. may be considered.

*Bacteriol.* Chem., phys. and biol. (or bot. and zool. in lieu of biol.).

*Geol.* 3 sci. subjects, which may incl. geog.

*Geog.* Geog. and 2 other sci. subjs. In exceptional cases, general studies may be accepted in lieu of geog. or 1 of the other sci. subjs.

*Anat. studies, med. biochem. studies, physiol. studies.* Chem., phys. and biol. at advanced level in the G.C.E. exam. or the univ. 1st yr. exam. in those subjs. A sufficient knowledge of maths. is also required.

### Applied Science

*Biochem.* 3 sci. subjs., normally chem., phys. and biol. (or bot. or zool.) at advanced level. Candidates with mathl. qualifs. will, however, be considered.

*Mech. engin., civil engin., electr. engin., mining.* 3 subjs., 2 of which must be maths. & phys. with chem. at least at ordinary level.

*Chem. engin., metall. & minerals engin.* 3 subjs. must be chem., maths. and phys.

*Note.*—There are sp. arrangements by which students who have taken arts subjs. as their main subjs. at sch., and who are qualified to enter upon an arts course in the univ., may obtain a univ. trg. in the scis., by entry to a prelim. yr. course prior to normal 3-yr. course for a degree in sci.; other students who have qualified for entry to a sci. course by normal, 'mature' or 'industrial' matric. may also be considered for entry to the prelim. yr. courses.

**ARTS.** Candidates for direct admission to a degree course, who wish to qualify by means of the G.C.E., must normally have passed in at least 3 subjs. (general studies may be accepted as 1 of these 3 subjs.) at advanced level at one and the same exam., in compliance with the following deptl. requirements:

(1) Degree in combined subjs.: at least 2 of the 3 subjs. must be arts subjects. If Latin, French, German or geog. is to be offered in degree course the subj. concerned must have been passed at advanced level. Latin qualif. not required unless the subj. is to be offered for the degree.

(2) *Sp. schs.*: (a) *mental & moral philos., theol. & archæol.*: any 3 subjs.

(b) *Italian*: 3 arts \* subjs. Latin must have been passed at ordinary level at least.

\* For the purpose of these regns. the following will be considered as arts subjs.: all classical and mod. foreign langs.; Engl. lang., Engl. lit.; anc., mediæv. and mod. hist.; maths., art, music, geog., scripture knowledge, and econ.

(c) *Russian*: 3 arts \* subjs.

(d) *Hist.*: any 3 subjs. Latin must have been passed at ordinary level at least.

(e) *French and Spanish*: 3 arts \* subjs., one of which should be the subj. to be studied for degree course. Latin must have been passed at ordinary level at least.

(f) *Engl.*: 2 of the 3 subjs. should be arts \* subjs., one preferably a lang. other than Engl. Latin or Greek must have been passed at ordinary level at least. As from 1957 all candidates are required to have passed in a lang. other than Engl. at advanced level.

(g) *German*: 2 of the 3 subjs. must be arts \* subjs., one of which must be German. No Latin requirements for admission.

(h) *Classics and Greek*: 2 of the 3 subjs. should be Latin and Greek. Candidates who have not Greek at advanced level must be prepared to attend a spec. preparatory course for a yr. before admission to the spec. sch.

(i) *Latin*: 3 subjs., one of which must be Latin.

(j) *Geog.*: any 3 subjs. No Latin requirements for admission.

(k) *Music*: any 3 subjs., of which music should normally be one. No Latin requirements for admission. Certain conditions have to be fulfilled to the satisfaction of the prof. of music as to adequate power of performance on some musical instrument, etc.

(l) *Maths.*: one of the 3 subjs. must be maths. Some knowledge of phys. very desirable.

**MEDICINE.** Candidates for admission to the 2nd yr. of med. or dent. must have passed in phys., chem. and biol. (or bot. or zool.) at advanced level at the same exam. Such candidates should normally be 18 yrs. of age by Oct. 1 of yr. of admission.

**COMMERCE.** Candidates must normally have passed in 3 subjs. at advanced level. Maths. must have been passed at least at ordinary level.

**LAW.** Candidates should normally have passed in 3 subjs. at advanced level.

*Note.*—Higher and Sch. Cert. qualifs. equivalent to the qualifs. based on the G.C.E. will still be accepted by all facs.

### Admission of Overseas Students

Applicns. from overseas students to enter the univ. must be received by the registrar before April 1, and must be accompanied by testimonials regarding character, educnl. qualifs. and financial standing. Students from overseas are required to submit their applicns. through the appropriate govt. authority (e.g. the High Commissioner for India or Pakistan, Egyptian Educn. Office) or the office of the Hd. of the Students' Branch, Colonial

Office, 2 Sanctuary Buildings, Great Smith St., London, S.W.1.

Intending applicants for admission should particularly note that applications by personal interview in the univ. will not in any circumstances be considered; all applicants must be made in writing in the manner indicated above.

(a) *Admission to first degree courses.* In addn. to satisfying the matric. requirements and the fac. entrance requirements, overseas candidates, whose native lang. is not Engl., must have passed either in Engl. lang. at the ordinary level in the G.C.E. exam., or in the exam. for Cambridge Cert. of Proficiency in Engl., or in Engl. in an exam. in their own country which is acceptable to the Northern Universities Joint Matric. Bd. for the purpose of matric.

(b) *Admission to postgraduate courses.* In addn. to satisfying all other requirements for admission to postgrad. courses, overseas candidates whose native lang. is not Engl. must provide evidence satisfactory to the univ. that they have an adequate knowledge of written and spoken Engl.

(c) *Special pre-admission course.* A spec. course will be arranged in late Sept. for overseas students whose native lang. is not Engl. to familiarize them with living conditions in Birmingham, to give them practice with their Engl., and to discover those who require further help with their written and spoken Engl. if they are to benefit fully from their univ. course.

(d) *Tutor in English for overseas students.* A tutor will provide teaching in Engl. lang. for those overseas students who, after admission, require it.

### *Last Date for Receipt of Applications*

Applicants for admission on prescribed forms should normally be submitted by Jan. 31. Candidates taking the N.U.J.M.B. indust. matric. exam. must apply by Dec. 31.

## LEEDS

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1360) and (b) any relevant fac. and deptl. requirements (see below).

Min. age for admission is 17 yrs.

### *Faculty and Departmental Requirements*

The list below is restricted to formal requirements; further information and advice should be obtained from the registrar as to addnl. subjs. which, in conjunction with the min. and any fac. or deptl. requirements, are considered as

desirable in preparation for univ. courses in specified subjs.

**ARTS.** *Greek:* (A) \* Greek (high standard) and (O) \* Latin (at least a pass).

*Mod. langs.:* candidates wishing to read for sp. studies degrees in French, Italian or Spanish or in a mod. langs. group which includes one of these must have attained a pass at (O) in Latin.

*Russian:* (O) Russian or equivalent required for admission to the 3-yr. degree course: applicants who do not possess this qualif. may be considered for entry to the 4-yr. course.

*Hist.:* candidates must provide evidence of a reading knowledge of 2 langs. other than Engl., of which one should be French. One lang. at (A) and the other at (O), or other evidence, are acceptable.

*Geog.:* (A) geog. (high standard) required; and preferably passes in 2 other subjs. at (A) See BSc scheme, below.

**ECON. AND SOC. STUDIES.** *Dipl. in Soc. Studies.* entrants for the dipl. course must have obtained 2 (A) passes and have worked for at least 1 yr since leaving sch.

**LAW.** No addnl. requirements.

**SCI.** (Note: some modification of the requirements listed below is possible for candidates accepted for a 4-yr. instead of a 3-yr. degree course.)

*Maths.:* high standard in the J.M.B. exam at (A) in the double subj. maths. & theoret. mechanics, or equivalent, required.

*Phys.:* (A) at a good standard in maths. and phys. required.

*Chem.:* (A) at a good standard in chem. and in either phys. or maths. (pure and appl.) required.

*Geol.:* advanced study in chem., phys. and/or maths.

*Geog.:* (A) geog. (high standard) required as part of a good all-round performance based on 3 advanced level subjs.; 1 of these 3 apart from geog. must be an approved sci. (O) maths is required. (See also BA scheme, above.)

*Biochem.:* (A) chem. (good standard) required. (O) phys. and (O) maths. necessary.

*Pharmacol.* (4 yrs.) and *Pharmacy* (3 yrs.): (A) phys., and an approved standard (higher than the pass mark) at (A) in chem., and in either zool. or biol.

*BSc General Studies:* preferably 3 sci. subjs. at (A), 1 of which must be maths., phys. or chem.

*Technol.* (Note: some modification of the requirements listed below is possible for candidates accepted for a 4-yr. instead of a 3-yr. degree course.)

*Engin. (civil and mech.):* good standard in maths. and either phys. or chem. at (A) required.

*Engin. (electr.):* good standard in maths. and phys. at (A) required; (O) chem. desirable.

*Chem. engin.:* prospects of entry slight without a good standard at (A) in maths., phys. and chem.

\* (A) = advanced level; (O) = ordinary level

**Metall.:** good standard at (A)\* required in maths., phys. and chem. If maths. is taken as a double subj. (e.g. maths. & theoret. mechanics in the J.M.B. exam.), either phys. or chem. may be dispensed with.

**Gas engin.:** prospects of entry slight without a good standard at (A) in maths., phys. and chem.

**Ceramics:** prospects of entry slight without a good standard at (A) in maths., phys. and chem.

**Agric.:** 4-yr. hons. course in agric. or the agric. scis. (agric. bacteriol., bot., chem. and zool.)

—(A) at good standard in the appropriate subj(s). expected. 4-yr. hons. course in agric. econ.—no addtnl. requirements; satisfactory attainment in relevant arts subjs. desirable. 3-yr. ordinary degree course—(A) chem. and biol. normally required. **Farming Experience:** 12 consecutive months' work on an approved farm essential before commencing 2nd yr. of BSc course (hons. or ordinary) in agric.; some farming experience desirable before entry to hons. degree courses in the agric. scis.

**MED. MB ChB:** maths. at (O)\* necessary.

**DENT. BChD:** knowledge of maths. equivalent to that of (O) level in a G.C.E. exam. necessary.

### Exemptions

In certain circumstances, applicants for admission to courses leading to the degrees of BA and BSc in spec. or gen. studies may be exempted by the bds. of the facs. concerned from 1-yr. courses and corresp. exams. if they possess qualifs. obtained in the G.C.E. exam. or other equivalent exam. of a sufficiently high standard. Exemptions will not be automatic and, in the case of BA applicants, will be granted only in exceptional cases. Subject to a min. attendance in this univ. of 2 yrs. and to the approval of the senate, members of other univs. which require residence as a condition of graduation may be permitted to count their studies and exams. (other than the final exam.) therein towards graduation in Leeds.

### Overseas Students

Applicants of foreign nationality, whether resident overseas or in the British Isles, should make applicn. through the embassy or educn. bureau of their govt. or through the British Council.

Applicants whose native lang. is not Engl. must, if they wish to read for a first degree, have obtained at least the pass mark in each of the following parts of the exam. for the Cert. of Proficiency in Engl. of the Univ. of Cambridge; *oral*—dictation, reading and conversation; *written*—(i) use of Engl., (ii) Engl. lang. (composition and a passage of Engl. with lang. questions). Applicants will, however, be considered from overseas students with equivalent qualifs. in Engl., e.g. a credit in Engl. in the Oversea Sch. Cert. of the

Univ. of Cambridge or a pass at the ordinary level in Engl. in the G.C.E. exam. of the Univ. of London.

### Last Date for Receipt of Applications

Applicns. from persons whose home is in the British Isles should be returned on the appropriate form by Jan. 31; applicns. received after that date will be considered if places are available. Applicants from persons resident outside the British Isles must be received before May 31.

## LIVERPOOL

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1360) and (b) any relevant fac. and deptl. requirements (see below).

No person may register as a student who will not have attained the age of 17 yrs. on or before Dec. 31 in the yr. for which entry is sought.

### Faculty and Departmental Requirements

**ARTS.** Applicants for admission to a course leading to the degree of BA must have passed in Greek or Latin or maths. at the ordinary or advanced level in the G.C.E. exam.

Candidates who have qualified in maths., but not in Greek or Latin, will be required: (a) For the degree of BA in gen. studies, to take not less than 5 courses of the 9 required from the following subjs.: geog., econ., econ. hist., sociol., pol. theory & instns., psychol. and philos. (b) For the degree of BA in spec. studies to present themselves in any one of the following 6 schs.: geog., econ., soc. sci., pol. theory & instns., psychol., philos.

**ARCHIT. AND COMM.** For admission to courses leading to BArch and BCom there are no requirements addtnl. to those of the Jt. Matric. Bd. (see above, p. 1360).

**SCI.** The amount of knowledge assumed as a basis for introductory courses will be as follows, in terms of the syllabuses given in the Joint Matric. Bd. publicn. *General Cert. of Educn.*, 1961:

**Pure maths.** Maths. (A) or further maths. (A) or pure maths. with statistics (A) or pure maths (A). Maths. (A) and further maths. (A) are preferred.

**Appl. maths.** Maths. (A) or further maths. (A) or pure maths. with statistics (A) or pure maths. (A) plus phys. (A or O).

**Phys.** For introductory standard, phys. (O); for all other standards, phys. (O) plus maths. (O) (syllabus B).

*Chem.* Chem. (O).\*

*Zool.* Nil.

*Bot.* Nil.

*Geol.* Nil.

**Exemption.** Exemption from the 1st yr. of a course of study in subjs. which are to be presented at the subsidiary, normal or higher standards, may be granted by the fac. to candidates who have passed in the G.C.E. exam. in 3 subjs. at the advanced level and have attained a standard deemed to be satisfactory in the subjs. concerned. These 3 advanced level subjs. need not necessarily be all scientific subjs. A standard higher than pass will be demanded in the 2 subjs. for which exemption is claimed. The syllabuses in terms of advanced level subjs. which are desired for entry into the 2nd yr. of study are as follows :

**Pure maths.** Further maths. or maths. plus further maths. Pure maths. for students taking subsid. pure maths.

**Maths. (pure and appl.).** Further maths. plus phys. or maths. plus further maths. Pure maths. with statistics may be considered in place of maths. or further maths.

**Phys.** Maths. plus phys., or maths. plus further maths. and phys.

**Chem.** For students taking higher chem.—chem. plus phys., and maths. or further maths. or maths. plus further maths. or bot. or zool. or biol. or geol. Chem. for students taking normal or subsidiary chem.

**Bot.** Bot. (biol. may be considered).

**Zool.** Zool. (biol. may be considered).

**Geol.** Geol. (geog. may be considered).

Applicants proposing to satisfy univ. entrance requirements by means of passes in general studies and in 2 other advanced subjs. may find it difficult to read for an honours degree in some schs. of the fac. in 3 yrs.

**MED.** There are no spec. addnl. requirements for entry to the fac. of med. It is not necessary for candidates to have taken sci. subjects at advanced level in the G.C.E. exam., but it is advisable that phys. and chem. should have been studied up to ordinary level, since the 1st MB courses are designed on the assumption that students have an elementary knowledge of these subjs. Passes at advanced level in phys., chem. and/or biol. (or bot. and zool.) may entitle a candidate to exemption from the corresp. courses and exam. of the 1st MB. Every endeavour is made to admit all eligible candidates direct to the 2nd yr. of studies, but sometimes the number of eligible candidates exceeds the number of vacancies. Those who cannot secure admission to the 2nd yr., even though they are eligible for complete exemption from the 1st MB, and those with partial exemption, are offered opportunities of attending courses of instructn. in other facs. to broaden their general educn. Students with exemption in phys. and chem. who complete 1st MB biol. by March are admitted to anat. classes during the summer term.

**Dent. surg.** There are no spec. addnl. requirements for entry to the sch. of dent. surg., but it is desirable that phys. and chem. should have been studied up to ordinary level in the G.C.E. exam., as the 1st-yr. course for the BDS is designed on the assumption that students have an elementary knowledge of these subjs. Candidates who have passed at advanced level in phys., chem., biol. or zool. are eligible for exemption from the corresp. courses and exams. for the 1st BDS. If a candidate has passed in all these subjs. at advanced level, he is eligible to commence 2nd-yr. studies.

**LAW.** The fac. will not regard with favour any applicant intending to become a solicitor or a barrister who, at the date of entry into the fac., does not possess the qualif. for exemption from the prelim. exam. of the Law Society or for admission as a student into one of the Inns of Court, as the case may be. Consequently, it is advisable for prospective applicants to acquaint themselves with the requirements of the appropriate professional body, in particular the articulated clerks regns., 1957.

**ENGIN.** Courses in the fac. of engin. are designed on the assumption that students have some previous knowledge of pure and appl. maths., phys. and chem. Candidates are recommended to present in the G.C.E. exam. at the advanced level (a) maths. & theoret. mechanics plus phys., (b) maths. plus phys. plus chem., or (c) maths. plus phys. plus 1 other subj. Where it is possible to present maths. with different alternatives, it is strongly recommended that an alternative which includes appl. maths. should be presented. All candidates are strongly recommended to study chem. to at least the ordinary level of the G.C.E. For admission into the dept. of metall. it is recommended that candidates present combination (b). Applicants from candidates with other suitable combinations of subjs. will be considered.

**Exemption.** The fac. will be prepared to consider for exemption from the 1st yr. of study and the inter. exam. candidates who have passed the exam. for the G.C.E. and whose performance in 1 of the preceding combinations of subjs. is satisfactory to the fac.

Candidates who have passed the G.C.E. exam. but have not reached a sufficiently high standard for exemption from the 1st yr. of study and inter. BEng exam. may be considered for such exemption, provided that they satisfy the examiners in pure maths. and appl. maths. separately in the inter. exam. before entering the univ.

All students entering the fac. are potential honours candidates. Separation into ordinary and honours degree streams normally occurs at the end of the penultimate yr. of the course.

**VET. SCI.** The fac. requires applicants to have attained a standard not less than that of a pass at the ordinary level of the G.C.E. in the separate subjs. of chem. and phys.

Exemptions are not granted in 1st-yr. subjs. passed at principal standard by holders of a Higher Sch. Cert. or at the advanced level in the G.C.E. exam.

### Overseas Students

Overseas students must apply for admission to the fac. or dept., with the exception of students from India and Egypt, who apply for admission through the following official bodies: *India*—the Educn. Office of the High Commissioner for India, Aldwych House, London, W.C.2. *Egypt*—the Egyptian Educn. Bureau, 4 Chesterfield Gardens, Park Lane, London, W.1.

Applicns. from overseas students for admission to the fac. of med., the sch. of dent. surg. or the fac. of vet. sci. must be received not later than Nov. 30 of the yr. preceding that in which admission is required; applicns. for admission to other facs. and schs. must be received not later than Jan. 31 of the yr. in which admission is required, and must be accompanied by detailed references certifying as to character and a detailed record of educnl. qualifs. No overseas student may be registered for entry upon a degree course until he has satisfied the entrance requirements of the Jt. Matric. Bd. and his admission has been approved by the senate. Overseas students must forward with their applicn. for admission a cert. of proficiency in written and spoken Engl., and must satisfy the fac. concerned that they have a knowledge of Engl. sufficient for undertaking their proposed course of study. Except by spec. permission of the senate, students normally resident outside Gt. Britain will not be admitted to classes or courses of study in the univ. unless assured of adequate financial support.

### Last Date for Receipt of Applications

Forms of applicn. should be obtained from the univ. and must be completed and returned by Jan. 31 of the yr. in which admission is sought with the exception of applicns. for admission to the fac. of med., the sch. of dent. surg. or the fac. of vet. sci., which should be received by Nov. 30 of the previous yr.

## MANCHESTER

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1360) and (b) any relevant fac. and deptl. requirements (see below).

Min. age for admission to the univ. is 16 yrs. for men, 17 yrs. for women.

### Faculty and Departmental Requirements

Students entering for the following degree courses must have reached the ordinary or a

higher level in a G.C.E. exam. in the subjs. named or give evidence of having attained an equivalent standard.\*

1. Hons. schs. in *arts* (except archit., town & country planning, pol. & mod. hist., mod. hist. with econ. & pol., philos., psychol., geog., Oriental studies, bibl. studies, maths. & philos.)—Latin (or Greek in case of hons. schs. of Engl. or German, or maths. in case of hons. sch. of maths.) unless prepared to devote 4 yrs. to the course. The requirement of Latin may be waived for students entering by means of mature matric.

2. *Law*—Latin.

### Exemption

The 1st yr. of a degree course is an integral part of the course; in spec. cases, however, students may be admitted to the 2nd or subsequent yr. if they have satisfactorily attended relevant courses at another approved univ.

**ARTS.** Students entering an hons. degree course may be exempted from attendance and exam. in one course of inter. grade, if they have passed sufficiently well in the relevant subject at the advanced level in the G.C.E. exam. A standard considerably above the pass mark is required.

**MED. AND DENT.** Candidates who have been accepted for admission to the course for the degrees of MB ChB and who have passed in chem. or phys. or zool. or biol. at the advanced level in the G.C.E. will be exempted from the corresponding separate subj. or subjs. in the 1st MB ChB exam.

Candidates entering the course for the BDS who have passed in chem. and phys. and zool., or biol., at the advanced level in the G.C.E. exam., may be exempted from the 1st BDS exam.

### Overseas Students

There are no spec. regns. for applicns. from overseas candidates.

### Last Date for Receipt of Applications

Applicns. for admission to first degree courses should be submitted by Jan. 31 in the yr. in which entry is desired. Applicns. after this date will be considered only in exceptional circumstances.

## SHEFFIELD

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Northern Univs. Joint Matric. Bd. (see above, p. 1360) and (b) any relevant fac. and deptl. requirements (see below).

No student under the age of 17 may be admitted to a degree or dipl. course except with the spec. permission of the senate.

\* The attainment of at least Sch. Cert. credit standard in the relevant subj. will continue to be accepted until further notice.

§ A pass at the advanced level in 'maths. & theoret. mechanics' will be accepted.



*Faculty and Departmental Requirements*

**ARTS.** Students must have passed in at least 2 subjs. at advanced level in the G.C.E. exam. With the exception of foreign students, who may be allowed to substitute a course in Engl., every candidate for the degree of BA must incl. a lang. other than Engl. in the 1st yr. of the course. A knowledge of Latin is not compulsory for students who wish to read for a general degree, but a qualif. in Latin is required for entry to honrs. schs. of classics, Engl., French, Spanish, hist. Inter. courses for beginners are available in anc. hist., archit., bibl. hist. & lit., econ., philos., psychol. The following inter. subjs. can be started from the beginning in the univ.: anc. hist., philos., econ., archit., biblical hist. & lit., psychol., and, under certain conditions, Spanish and Greek. Before admission to an inter. course in any other subj., a candidate must provide evidence of his proficiency up to at least ordinary level in the G.C.E. exam.

**ECON. AND SOC. STUDIES.** No requirements addnl. to those of the Jt. Matric. Bd. (*see above*, p. 1360), but as the number of applicants is much greater than the number of places available, the standard needed to gain admission may be higher than the minimum requirements.

**ENGIN.** For admission to the 3-yr. degree courses in civil, mech., electr. engin., mining, or fuel technol. and chem. engin., applicants should have passed at a satisfactory standard the advanced papers of the G.C.E. in pure & appl. maths., phys. and chem. Candidates who have complied with the univ. entrance requirements of the Jt. Matric. Bd. (*see above*, p. 1360), but who have not attained a standard in these subjs. high enough to satisfy the spec. requirements of the fac., may be allowed to take an entrance exam. in the univ. or they may be admitted to a prelim. course of 1 session's duration. Applicants for admission to a degree course in glass technol. who have reached a standard satisfactory to the fac. in maths., phys. and chem., all at the advanced level, may be exempted from the inter. courses and exams. in those subjs.

**LAW.** No requirements addnl. to those of the Jt. Matric. Bd. (*see above*, p. 1360).

**MED.** Applicants should normally have reached at least the ordinary level in the G.C.E. exam. in the subjs. of chem. and phys., and preferably also biol. Exemption from the 1st MB ChB, or 1st BDS, pt. I may be gained if an applicant has reached a standard accepted by the fac. at advanced level in the G.C.E. papers, or passed the inter. BSc exam. of any univ., in chem., phys., and either biol. or zool. or bot., or has passed the 1st MB or 1st BDS exam. of an approved univ.

**METALL.** Applicants for admission to degree course should have passed in maths., phys. and chem. in the G.C.E. exam. at advanced level. A

candidate who has passed the advanced level papers in these 3 subjs. at a standard approved by the fac. may be deemed to have passed the inter. exam. in them and be admitted to the 1st yr. of the course for the degree with honrs.

**PURE SCI.** Intending students should have passed in at least 2 sci. subjs. at the advanced level of the G.C.E. A student desiring to enter a spec. honrs. sch. may be admitted to the 1st (post-inter.) yr. of the honrs. course if he has passed at an approved standard in the advanced papers of the G.C.E. in 2 or 3 sci. subjs. according to the requirements of the spec. honrs. sch. concerned. For the gen. degree of BSc exemption from the inter. exam. is not granted in respect of passes in a G.C.E.

*Note.*—Higher and Sch. Cert. qualifs. equivalent to the qualifs. based on the G.C.E. will still be accepted by all facs.

*Overseas Students*

Students from Burma, Ceylon, Ghana, India, Iran, Iraq, Jordan, Pakistan, Saudi Arabia, Sudan, Thailand, Turkey, the United Arab Republic or British Colonial territories should apply for admission through the appropriate representative of their country in London. \*

Students whose mother-tongue is not English may be required to pass a test in Engl. before admission to the univ.

No overseas student will be allowed to attend any course unless the result of a med. exam., conducted at entry by the univ., is certified as satisfactory by the univ.'s med. officer.

*Last Date for Receipt of Applications*

Applicns. should be made on the prescribed form by Nov. 30 for admission to the fac. of med., by Jan. 31 for admission to other facs., for entry the following Oct.

**BRISTOL**

The univ. holds no matric. or entrance exam.

The following are eligible for matric. (min. age 17 yrs., but *see also under fac. requirements*):

(1) Grads. of univs. in the United Kingdom or other approved univs.

(2) Holders of First and/or Higher Sch. Cert. fulfilling regns. in force before the inception of the General Cert. of Educn. (Holders of certs. awarded on No. 15\* will normally be required to satisfy requirement (3) below, counting a credit in a Sch. Cert. or a pass in a subsidiary subj. in a Higher Sch. Cert. exam. as equivalent to an ordinary level pass, and a pass in a principal subj. in a Higher Sch. Cert. exam. as equivalent to an advanced level pass in a G.C.E. exam.)

\* *See above*, p. 1360

(3) Holders of a G.C.E. awarded by nos. 3-11,\* provided that the cert. shows *either* scheme A (6 subjs.)—a pass in (a) Engl. lang., (b) a lang. other than Engl., (c) either maths. or an approved sci. subj., and 3 other subjs. chosen from the approved list of subjs.; and provided 2 of the 6 subjs. are passed at the advanced level; *or* scheme B (5 subjs.)—a pass in (a) Engl. lang., (b) a lang. other than Engl., (c) either maths. or an approved sci. subj. and 2 other subjs. chosen from the approved list of subjs., provided that 3 of these subjs., incl. 2 at the advanced level, are passed at one and the same sitting. These 3 subjs. must not all be taken from the same group.

*Subjects approved for matric.* Group I: (1) Engl. lang.; (2) Engl. lit.; (3) anc. hist. or anc. civilization or Greek civilization; (4) med. & mod. hist.; (5) geog.; (6) econ.; (7) music; (8) art; (9) religious knowledge; (10) Greek; (11) Latin; (12) French; (13) German; (14) Spanish or any other approved lang. Group II: (15) maths. or addnl. maths. or pure maths. or pure & appl. maths.; (16) appl. maths. (may not be taken with pure & appl. maths.); (17) phys.; (18) chem.; (19) phys. with chem. (may not be taken with either phys. or chem.); (20) general sci. or addnl. general sci.; (21) bot.; (22) zool.; (23) biol. (may not be taken with either bot. or zool.); (24) geol.; (25) geog.

No subj. may count at both ordinary and advanced levels.

Either maths. or pure maths. or appl. maths. or pure & appl. maths. will satisfy the requirements of maths. under regns. for schemes A and B.

Subjs. (17) to (25) inclusive are approved sci. subjs. for the purposes of matric. under schemes A and B.

A pass in Engl. lit. at ordinary or advanced level does not meet the requirement of an ordinary level pass in Engl. lang.

Individual consideration may be given to candidates who do not precisely satisfy the requirements under para. (3) above but who do fulfil the requirements of other matriculating authorities in England or Wales and satisfy fac. requirements.

(4) Candidates who have passed no. 17.\*

(5) Trained certificated teachers, provided they have passed with distinction in at least 1 of the general subjs. prescribed in a recog. cert. exam.

(6) Candidates who have satisfied the examiners in the passing-out exam. of the Royal Naval Coll., Dartmouth.

(7) Candidates who have passed the Forces Prelim. exam., subject to interview.

(8) Candidates for admission to the fac. of engin. who have been engaged for 2 yrs. in industry or commerce and have attended courses for at least 2 yrs. (3 yrs. if seeking exemption from inter.) and who have ordinary level Engl. lang. in G.C.E. exam. and either Ordinary National Cert. or Higher National Cert. of outstanding merit or equivalent.

The following may be declared eligible for matric.:

(a) A candidate educated elsewhere than in the United Kingdom, on his submitting evidence of having passed exams. equivalent to those qualifying for matric. at Bristol and, if necessary, evidence of ability to follow instructn. given in Engl.

(b) A candidate for a res. degree on submitting evidence of sufficient qualifs. for conducting original res.

(c) In exceptional circumstances, a candidate over 23 yrs. of age on submitting evidence of previous educn. and attainments.

(d) Barristers-at-law and solicitors of the supreme court.

### *Faculty Requirements*

**ARTS.** All candidates for admission must be 17 yrs. and 9 mos. of age. In addn. they must hold the following exam. qualifs.:

*For BA (gen. or spec.).* A pass at ordinary or advanced level in Latin or classical Greek. Candidates who are natives of Arabic-speaking countries and who have not reached the requisite standard in Latin or Greek, but have reached a recog. equivalent standard in classical Arabic, may, on the recommendation of the bd. of the fac. of arts, be accepted for admission to the fac. Such candidates will be admitted only if they are qualified to read in certain spec. schs. as determined by the bd. of the fac.

*For BA spec. in econ., econ. & acctg., econ. & govt., geog., hist. & econ., philos. & econ. or geog.* A pass at or above ordinary level in either maths. or a classical lang.

*For BA(Econ).* Passes at or above ordinary level in French or German or Spanish and in maths. or a classical lang.

**LAW.** Candidates are required to have passed in Latin at the ordinary or advanced level.

### *Exemption from First-Year Courses and Exams., and Entry to Certain Special Courses*

**ARTS AND LAW.** There is no inter. course or exam. in these facs. and no exemptions are granted.

**SCI.** Candidates seeking exemption from the inter. BSc exam. must be 17 yrs. and 9 mos. of age and must have passed in the G.C.E. exam. in 3 mathematical or scientific subjs., of which 2 must have been taken at the advanced level. Only those subjs. listed in group II of the *subjs. approved for matric.* (see above) are accepted for this purpose. Candidates seeking exemption from the inter. exam. for BSc(DomSci) must have obtained advanced level passes in chem. and in either bot. or zool. or biol. They should also have a knowledge of phys. to at least the ordinary level. The normal requirements for

than Engl. Group C: maths. and scis. Details should be checked from the regns. or with the registrar.

*Note.*—Credits in a Sch. Cert. obtained before 1951 may be counted as ordinary level passes. Higher Sch. Cert. passes, principal or subsidiary, obtained before 1951 may be counted as advanced level passes. Credits in the Cambridge Oversea Sch. Cert. or subsidiary passes in the Cambridge Oversea Higher Sch. Cert. will be accepted as ordinary level passes. Principal passes in the Cambridge Oversea Higher Sch. Cert. will be accepted as advanced level passes. The West African Sch. Cert. will be recognized subject to the same conditions as the Cambridge Oversea Sch. Cert. The univ. will accept, as a general qualif. to matric., a G.C.E. which does not comply with certain rules on the selection of subsjs., provided that the certs. would qualify to matric. in a univ. in England.

#### QUALIFICATIONS OTHER THAN GENERAL CERT. OF EDUCN.

(1) A candidate who has been at work for not less than 2 yrs. after leaving sch. or who satisfies the matric. cttee. that the circumstances of his educn. have not afforded proper opportunity of obtaining the G.C.E. may be permitted by the cttee. to matric. if he has passed certain exams. recognized by the cttee. (*e.g.* Higher or Ord. National Cert. or National Dipl. in relevant subj. for appl. sci. only), or satisfies such tests as the cttee. may prescribe or accept. The cttee. may require the candidate to reach a prescribed standard in an exam. in such subsjs. as they may direct.

(2) The Attestation of Fitness of the Scottish Univs. Entrance Bd., granted on passes in no. 12\* or no. 13,\* will qualify to matric. if it includes any spec. qualif. required for particular courses.

(3) No. 14\* will qualify under the same condition.

(4) The Hons. Leaving Cert. of the Dept. of Educn. of the Republic of Ireland will qualify to matric. provided that it includes (a) Engl., (b) a lang. other than Engl., (c) either maths. or an approved sci. subj.; and provided that it includes at hons. standard any subsjs. required for entry to a particular course.

(5) The following will qualify to matric., if they incl. any subsjs. required for entry on a particular course and if the candidate presents sufficient evidence of proficiency in Engl.: a degree of any univ. in the British Isles or of any other approved univ.; a cert. awarded by any public examining body in Canada, Australia, S. Africa, New Zealand, the U.S.A., or any of the countries which have ratified or acceded to the European Convention on the Equivalence of Diplomas (1953), provided that the cert. qualifies for admission to an approved univ. in the country in which it was awarded; the inter. exam. of an approved univ. in India or Pakistan.

(6) The applications of candidates submitting

certs. awarded in countries other than the U.K., the Republic of Ireland and those named in (5) above, will be considered individually.

#### *Special Qualifications for Particular Courses*

(1) Students entering upon courses for degrees named below and submitting a G.C.E. must not only satisfy the general requirements for matric. but also satisfy the following spec. requirements:

ARTS. BA in gen. studies, BA with hons. (with certain exceptions, see *Note* below): Latin or classical Greek at advanced or ordinary level. BA with hons. in town & country planning: maths. at advanced or ordinary level.

*Note.*—Candidates for the BA with hons. in town & country planning, hons. in geog., hons. in geog. & anthropol., hons. in econ. & geog., hons. in econ. & anthropol., hons. in pol. & anthropol., and hons. in pol. & econ., or for the BA in soc. studies, are not required to incl. Latin or Greek as a spec. requirement for matric.

APPL. SCI. BSc in appl. sci. (excl. metall.): a qualif. in maths. at ordinary or advanced level.

BSc in metall.: maths., phys. and chem., of which one must be at advanced level.

LAW. LLB: Latin at either advanced or ordinary level.

(2) Candidates for the BA in fine art<sup>o</sup> may matric. *either* (a) if they hold a general qualif. to matric., and pass the entrance exam. of the dept. of fine art or otherwise satisfy the hd. of the dept. that they are qualified to take the course; *or* (b) if they hold a G.C.E. with Engl. and 2 subsjs. other than fine art passed at one and the same occasion, and pass the entrance exam. of the dept. of fine art.

(3) Candidates for the LDS may matric. on a general qualif. to matric. or by passing an approved exam. in the subsjs. required for a general qualif. to matric.

(4) Candidates for the (external) degree of BMus do not matric., but must produce evidence of a good general educn.

#### *Last Dates for Receipt of Applications*

For last dates for receipt of applcns., see entries under Durham Colleges (p. 901) and King's College, Newcastle upon Tyne (p. 911).

#### EXETER

The min. age for admission to a degree course in the univ. is 17 yrs.

The following are eligible for matric.:

(1) Grads. of univs. in the United Kingdom and of such other univs. as may be recog. by the senate for this purpose.

(2) Holders of a General Cert. of Educn.

awarded by nos. 3, 4, 5, 6, 7, 8, 9, 10, 11 (*see p. 1360*), which shows passes in 5 subsjs. of which 2 must be at advanced level, and includes (i) Engl. lang., (ii) a lang. other than Engl. selected from the list in group I below, (iii) a subj. selected from the list in group II below. The 2 subsjs. at advanced level must have been passed on the same occasion. No subj. may be counted at both ordinary and advanced level.

The list of subsjs. acceptable for complying with this regn. is as follows :

*Group I.* (1) Engl. lang.\*; (2) Engl. lit.; (3) geog.; (4) hist.; (5) anc. hist.; (6) Engl. econ. hist.; (7) British constitution; (8) econ.; (9) econ. & public affairs; (10) religious knowledge; (11) logic; (12) Latin; (13) Greek; (14) French; (15) German; (16) Spanish; (17) Italian; (18) Russian; (19) Welsh; (20) any other approved lang.; (21) music; (22) art; (23) history & appreciation of art. *Group II.* (24) pure maths.; (25) appl. maths.; (26) maths. (pure & appl.); (27) phys.; (28) chem.; (29) phys.-with-chem.; (30) geol.; (31) general sci.; (32) addtnl. general sci.; (33) bot.; (34) zool.; (35) biol. or general biol. or human biol.; (36) physiol.

The selection of subsjs. will be limited as follows : (26) shall not be counted with (24) or (25); (29) shall not be counted with (27), (28), (31) or (32); (31) shall not be counted with (32); (31) or (32) shall not be counted with (27), (28), (29), (33), (34), or (35); (33) shall not be counted with (35); biol. shall not be counted with general biol. or with human biol.; (34) shall not be counted with (35).

(3) Holders of a 1st Sch. Cert. and Higher Sch. Cert. issued by an approved authority, provided that the subsjs. included comply with the provisions of regn. (2) above. A credit gained in a 1st Sch. Cert. and a pass at subsidiary level in a Higher Sch. Cert. shall count as a pass at ordinary level, a pass in a principal subject in a Higher Sch. Cert. shall count as a pass at advanced level.

(4) Holders of matric. certs. of overseas univs. of the British Commonwealth or of such foreign univs. as may be recog. by the senate for this purpose.

(5) Exceptionally, other persons whose qualifs. by exam. the senate may deem sufficient.

### Faculty Requirements

The above regns. represent the min. entrance requirements of the univ. Candidates for admission to degree courses in the fac. of arts must have included a pass in Latin, and candidates for admission to degree courses in the fac. of sci. must have included a pass in maths. among the subsjs. qualifying for matric. In addn., candidates for certain hon. schs. and gen. hon. schs. in the fac. of sci. will be required to have passed in 2 or 3 specified subsjs. at advanced level (*see below*).

No addtnl. requirements are specified for candi-

dates for admission to degree courses in the fac. of law or the fac. of soc. studies.

### Deptl. Entrance Requirements for Hon. Schs. and Gen. Hon. Schs. in the Fac. of Sci.

For admission to the following hon. and gen. hon. schs., qualifs. equivalent to those set out below (in terms of the G.C.E.) are required.

Hons. schs. :—

*Bot.* Three (A) § passes incl. bot. and chem.

*Chem.* (A) passes in chem., pure maths., and one of the following—biol., bot., geol., phys., zool.

*Geog.* Entrance qualif. must incl. (A) passes in geog. and another sci. subj.

*Geol.* (A) passes in any 3 sci. subsjs.

*Maths.* (pure & appl.). (A) passes in pur maths. and appl. maths. (taken as separate subsjs.).

*Phys.* Entrance qualif. must incl. (A) passes in phys. and in pure maths. or in maths. (pure & appl.).

*Psychol.* No addtnl. requirements.

*Zool.* (A) passes in zool. and 2 of the following : bot., chem., geol., maths., phys.

Gen. hon. schs. :—

*Chem. or pure maths. or appl. maths. or phys.* as principal or subsid. subj. (A) pass in that subj.

*Zool. as principal or subsid. subj.* (A) pass in zool. or biol.

*Geog. as principal subj.* (A) pass in geog.

### Last Date for Receipt of Applications

Applicns. for admission should be made on the prescribed form between Nov. 1 and Jan. 31.

## HULL

Matric. (min. age 17) is open to the following, provided they satisfy the appropriate entry requirements for the course they propose to take :

- (i) Grads. of univs. of the United Kingdom or of such other univs. as may from time to time be recog. by the senate for this purpose.
- (ii) Holders of a General Cert. of Educn., approved as such by the Ministry of Educn., which shows *either* (a) passes in six subjects (not necessarily on the same occasion) of which Engl. lang. is one, and of which at least two are at advanced level, or (b) passes in five subsjs. of which Engl. lang. is one, provided that at least three have been taken on one and the same occasion and that at least two of these three are at advanced level.
- (iii) Holders of a Sch. Cert. in which credit standard was reached at one and the same sitting in five subsjs. incl. (a) Engl. or Engl. lang., (b) elem. maths., (c) a foreign lang.
- (iv) Holders of a Sch. Cert. with a credit in at least one subj. and a pass in each of the

\* The Cert. of Proficiency in Engl. of the Cambridge Local Exams. Syndicate is accepted as equivalent to the ordinary level pass in Engl. lang.

§ (A) = advanced level.

|| See above, p. 1360.

following groups: (a) Engl. lang.; (b) Engl. lit., hist., geog., scripture; (c) langs. other than Engl.; (d) maths. and sci. subjs., provided that such cert. is combined with either (a) a full Higher Sch. Cert. or (b) a cert. showing passes in 4 subsidiary subjs. in a Higher Sch. Cert. exam. or (c) a G.C.E. showing passes in 3 subjs. at advanced level on one and the same occasion.

- (v) Qualified teachers provided that they have passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.
- (vi) Holders of a Cert. of Attestation of Fitness issued by the Scottish Univs. Entrance Bd.
- (vii) Persons matriculated (in the sense defined by the ordinance relating to matric.) in any other univ. of the United Kingdom, provided that they have obtained a pass in Engl. lang. at ordinary level in an exam. for the G.C.E. or a credit in Engl. lang. in a Sch. Cert. exam.
- (viii) Persons matriculated (in the sense defined by the ordinance relating to matric.) in any univ. in a country, other than the United Kingdom, whose qualifs. have been approved by the senate for this purpose in each individual case.
- (ix) Holders of the French Baccalauréat de l'Enseignement Secondaire.
- (x) Holders of the German Universitätsreifezeugnis (commonly called the 'abitur').

The senate may also declare eligible for matric.:

- (i) A candidate who holds a full practising professional qualif. obtained by exam.
- (ii) In spec. cases, candidates over the age of 23 yrs. on their submitting to the senate such evidence as it may deem sufficient of previous study and of the capacity and attainments requisite to enable them to pursue the course proposed.

Candidates for matric. who are over the age of 23 yrs. and who do not hold any of the qualifs. required by regns. (i) and (ii) above may, at the discretion of the senate, take an entrance exam. conducted by the univ.

#### *Requirements for Entry to Particular Courses*

The following requirements are set out in terms of passes at advanced or ordinary level of the G.C.E. exam.

#### BA special degree

*Classics.* Latin (A)\* and Greek (O)\*. Some previous study of anc. hist. desirable but not essential.

*Engl. lang. & lit.* Normally Engl. (A) plus either French (O) or Latin (O); Latin (A) desirable. Equivalent of these in some cognate subjs. may be accepted in certain cases. In spec. circumstances qualifs. less than these may be accepted.

*French lang. & lit.* French (A) and Latin (O).  
*Geog.* Normally geog. (A), although consideration of applicants who have not obtained this qualif. is not precluded.

*German.* Normally German (A), although consideration of those who have not obtained this qualif. is not precluded.

*Greek (with Latin).* Greek (A) and Latin (O). Some previous knowledge of anc. hist. desirable but not essential.

*Hist.* Normally hist. (A). Ability to read French is essential and a knowledge of Latin very desirable.

*Latin (with Greek).* Latin (A). Some previous study of anc. hist. desirable but not essential. Some knowledge of Greek, if only to an elementary stage, desirable; but in approved cases provision will be made for the teaching of Greek to beginners.

*Maths.* Normally pure maths. (A) and appl. maths. (A) or similar qualif.

*Music.* Normally music (A) or some equivalent qualif. Engl., hist. or a mod. lang. at (A) or (O) desirable.

*Philos.* No spec. requirements. Good standard in Greek or Latin, or in French or German, or in maths. or a nat. sci. an advantage.

*Psychol. and soc. studies.* No spec. requirements.

*Theol.* No spec. requirements, but an anc. or mod. foreign lang. (A) or at least Latin (O) desirable. Previous knowledge of Hebrew not necessary; course in elementary Hebrew for beginners forms part of syllabus. Previous knowledge of Greek, though desirable, not essential.

#### BA joint degree

*Engl.* Normally Engl. (A) plus either French (O) or Latin (O). Equivalent of these in some cognate subjs. may be accepted in certain cases. In spec. circumstances, qualifs. less than these may be accepted.

*Finnish.* No spec. requirements.

*French.* French (A) and Latin (O).

*Geog.* Normally geog. (A), although consideration of applicants who have not obtained this qualif. is not precluded.

*German.* Normally German, although full consideration of those who have not obtained this qualif. is not precluded.

*Government.* No spec. requirements.

*Greek.* Greek (A).

*Hist.* Normally hist. (A). Ability to read French is essential and a knowledge of Latin very desirable.

*Latin.* Latin (A).

*Law.* No spec. requirements. Hist. (O) and Latin (O) desirable.

*Maths., appl.* Normally appl. maths. (A) or similar qualif.

*Maths., pure.* Normally pure maths. (A) or similar qualif.

\* (A) = advanced level; (O) = ordinary level

*Music.* Normally music (A)\* or some equivalent qualif.

*Philos.* No spec. requirements. Good standard in Latin, maths. or a nat. sci. an advantage.

*Psychol., sociol. and Swedish.* No spec. requirements.

*Theol.* No spec. requirements, but an anc. or mod. foreign lang. (A), or at least Latin (O),\* desirable. Previous knowledge of Greek, though desirable, not essential.

#### BSc special degree

*Bot.* Normally chem. (A) and 2 other sci. subjs. at (A).

*Chem.* Normally chem. (A) plus 2 other subjs. at (A) level, one of which will preferably be maths.

*Geog.* Normally geog. (A), although consideration of applicants who have not obtained this qualif. is not precluded.

*Geol.* No spec. requirements. Applicants will be expected to show evidence of their interest in geol.

*Maths.* Pure maths. (A) and appl. maths. (A) or similar qualif.

*Philos.* No spec. requirements. Good standard in Greek or Latin, or in French or German, or in maths. or a nat. sci. an advantage.

*Phys.* Phys. (A) plus either pure maths. (A) or appl. maths. (A) or pure & appl. maths. (A).

*Psychol.* No spec. requirements.

*Zool.* Zool. (A), chem. (A) and bot. (A). In exceptional cases some variation of these requirements might be accepted.

#### BSc joint degree

*Bot.* Normally chem. (A) and 2 other sci. subjs. at (A).

*Chem.* Normally chem. (A).

*Geog.* Normally geog. (A), although consideration of applicants who have not obtained this qualif. is not precluded.

*Geol.* No spec. requirements.

*Maths., appl.* Appl. maths. (A) or similar qualif.

*Maths., pure.* Pure maths. (A) or similar qualif.

*Philos.* No spec. requirements. Good standard in Latin, maths. or a nat. sci. an advantage.

*Phys.* Phys. (A) and either pure maths. (A) or appl. maths. (A) or pure & appl. maths. (A).

*Psychol.* No special requirements.

*Zool.* Biol. (A) or zool. (A).

#### Bachelor of Laws

No requirements addnl. to those for matric. but desirable that applicants have hist. (O) and Latin (O).

#### Bachelor of Econ. Sci.

Normally one of subjs. at (A) level should be : econ., Engl., geog., hist., a mod. foreign lang. or pure maths. (or equivalent qualif. in maths.). Candidates taking geog. as spec. subj. will normally be required to have this subj. at (A) level. In exceptional circumstances, candidates with

lower qualifs. may be admitted but they would normally be required to take 4 yrs. for their degree, incl. a yr. studying for a prelim. exam. Mature students or students with degrees of other univs. may be admitted directly to the 3-yr. hons. course provided they satisfy the hd. of the dept. that they have qualifs. equivalent to normal requirements for entry.

#### Last Date for Receipt of Applications

Applicns. should be made on the prescribed form preferably by Jan. 31 for entry the following Oct.

### LEICESTER

#### Regulations for Matriculation

(1) Candidates for matric. must be at least 17 yrs. of age on Oct. 1 of the yr. of their candidature.

(2) The following are eligible for matric. :

(a) Grads. of univs. in the United Kingdom or of such other univs. as may from time to time be recog. by the senate for this purpose.

(b) Holders of General Certs. of Educn. approved as such by the Ministry of Educn., § provided the certs. show *either* (i) passes in 5 subjs. of which at least 2 must be passed at advanced level ; *or* (ii) passes in 4 subjs. of which at least 3 must be passed at advanced level, the subjs. being chosen from the list set out below.

(c) Holders of Sch. and Higher Sch. Certs. approved as such by the Ministry of Educn., provided the certs. fulfil the requirements of (b) (i) or (b) (ii) above. (A credit in a Sch. Cert. and a pass at subsidiary level in a Higher Sch. Cert. count as a pass at ordinary level ; a pass in a principal or main subj. in a Higher Sch. Cert. counts as a pass at advanced level.)

(d) Holders of a cert. of Attestation of Fitness issued by the Scottish Univs. Entrance Bd.

(e) Qualified teachers, provided they have passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.

(3) The senate may also declare eligible for matric. :

(a) A candidate for a res. degree on his submitting to the senate such evidence as it may deem sufficient of his qualifs. for conducting original res.

(b) A candidate who holds a full practising professional qualif. obtained by exam.

(c) A candidate who submits to the senate such evidence as it may deem sufficient of previous serious study and of the capacity and attainments requisite to enable the candidate to pursue the course proposed.

(4) A student whose native tongue is not Engl. must have passed in Engl. lang. at G.C.E.

\* (A) = advanced level ; (O) = ordinary level

§ See above, p. 1360

proceeding to the course of study for the final exam. No exemption may be obtained from the inter. exam. by means of G.C.E. (A)\* passes. Before admission to the course of study, a candidate must pass at (O)\* or (A) in one of the following langs., not being the candidate's mother-tongue: French, German, Italian, Latin, Russian (applic. may be made for another lang. to be approved in sp. circumstances).

**FAC. OF MED. MB BS degrees.** (a) First med. exam.: no requirements in addition to min. entrance requirements. (b) Second med. exam.: before admission to the course of study for the 2nd med. exam. a candidate is required: either (i) to pass the 1st med. exam. or (ii) to have satisfied min. entrance requirements and have passed the following subjs. in the G.C.E. exam.: chem. (A), phys. (A), zool. (A), biol. (A).

**BDS degree.** As for MB BS degrees.

**BVetMed degree.** A candidate must pass the vet. pre-clin. exam. before proceeding to the course of study for the final exam. No exemption may be obtained from the vet. pre-clin. exam. by means of G.C.E. (A) passes.

**BPharm degree.** Before admission to the course of study for the final exams., a candidate must pass the following subjs. in the G.C.E. exam.: chem. (A); phys. (A); either biol. (A) or bot. (A) or zool. (A); together with another subj. at (O) or (A), which should preferably be maths.

**FAC. OF SCI.** A previous knowledge of maths. up to ordinary level will be assumed in respect of all degree courses which incl. a study of phys. or chem. or maths.

**BSc (gen.) degree—new regns.** Before admission to the course of study for the final exam., a candidate must pass in 3 subjs. from the following list, of which two must be at (A): (1) biol.; (2) bot.; (3) chem.; (4) geol.; (5) phys.; (6) zool.; (7) geog.; (8) pure maths.; (9) appl. maths.; (10) maths. (pure & appl.).

**Note.**—(a) (1) may not be incl. with (2) or (6); (b) (10) may not be incl. with (8) or (9); (c) at least one of the two (A) subjs. must be selected from the group numbered (1)–(6).

**BSc (spec.) degree.** Before admission to the course of study for the final exams. for the BSc (spec.) in a particular spec. subj., a candidate must pass in the subjs. prescribed for that spec. subj. as follows:

**Anat.** (A) passes in three subjs. selected from (1)–(10) above.

**Anthropol.** (A) passes in two subjs. selected from (1)–(10) above.

**Astron.** (A) passes in three subjs. selected from (1)–(10) above, incl. phys. and either pure maths. or maths. (pure & appl.).

**Biochem.** (A) passes in (i) chem.; (ii) pure maths. or maths. (pure & appl.); and (iii) phys. or biol. or bot. or zool. A candidate who is admitted with a biol. subj. under (iii) but no phys., must pass phys. with an (O) pass not later than the end of the 2nd term of the course.

**Bot.** Passes in three subjs. of which two must be (A), selected from (1)–(10) above. For those commencing degree courses in and after Oct. 1962 chem. at (O) is compulsory. Chem. (A) plus maths. or phys. (O) are advisable.

**Chem.** (A) passes in (i) chem.; (ii) phys.; (iii) pure maths. or appl. maths. or maths. (pure & appl.). (Note: An internal student may be accepted with (A) passes in: (i) chem.; (ii) phys. or pure maths. or appl. maths. or maths. (pure & appl.); (iii) biol. or bot. or geol. or zool. together with an (O) pass in phys. or a maths. subject which has not been passed at (A). This qualif. is not approved for external students.)

**Geog.** (A) passes in two subjs. selected from (1)–(10) above.

**Geol.** (A) passes in two subjs. selected from (1)–(10) above. If maths. is not taken at (A) level it must be taken at (O) level.

**Maths.** (A) passes in (i) pure maths.; (ii) appl. maths. or phys.

**Phys.** (A) passes in: (i) chem.; (ii) phys.; (iii) maths. (pure & appl.) or (i) phys.; (ii) pure maths.; (iii) appl. maths. or chem. together with an (O) pass in either of the subjs. appl. maths. or chem. which has not been passed at (A).

**Physiol.** (A) passes in subjs. in three of the following groups and an (O) pass in the remaining group; (i) chem.; (ii) phys.; (iii) pure maths. or maths. (pure & appl.); (iv) biol. or bot. or zool.

**Psychol.** (A) passes in two subjs. selected from (1)–(10) above.

**Statistics.** (A) passes in two subjs., one of which must be (8) of the list above.

**Zool.** Internal passes in three subjs. selected from (1)–(10) above, one of which must be maths., and two of which must be at (A). External students must comply with the internal regn. and also pass zool. (A).

**BSc(Agric) degree without hons.:** before admission to the course of study for the final exams. for the BSc(Agric) under these regns. a candidate must pass the 1st exam. in agric.

**BSc(Agric) with hons.:** before admission to the course of study for the final exams. for the BSc(Agric) with hons., a candidate must pass at (A) in (i) chem.; (ii) biol. or bot. or zool.

**BSc(Hort) degree.** Before admission to the course of study for the final exams. for the BSc(Hort), a candidate is required to have satisfied min. entrance requirements and to pass the 1st exam. in agric. and hort.

**BSc(Nutrition) degree, BSc(Household Science) degree.** Before admission to the course of study for the final exams. for the BSc(Nutrition) or BSc(Household Science), a candidate must pass the following subjs.: (i) chem.; (ii) phys.; (iii) biol. or zool.; (iv) maths. The subjs. (i) and either (ii) or (iii) must have been passed at (A).

**FAC. OF ENGIN. BSc(Eng) degree.** Before admission to the course of study for the final exams. for the BSc(Eng), a candidate must pass in the following subjs.: (i) maths. (pure & appl.) (A);

(A) = advanced level, (O) = ordinary level

§ Where reference is made to the BSc (gen.) list above, notes (a) and (b) apply

(ii) phys. (A)§; (iii) chem. (O)§ or (i) pure maths. (A); (ii) appl. maths. (A); (iii) phys. (A); (iv) chem. (O) or (A).

*BSc(Eng), chem. engin. degree.* Before admission to the course of study for the final exams. for the BSc(Eng) in chem. engin., a candidate must pass in the following subjs.: *either* (i) maths. (pure & appl.) (A); (ii) phys. (A); (iii) chem. (A); *or* (i) pure maths. (A); (ii) phys. (A); (iii) chem. (A); (iv) appl. maths. (A) or (O); *or* (i) appl. maths. (A); (ii) phys. (A); (iii) chem. (A); (iv) pure maths. (A) or (O).

*BSc(Eng), mining (mining option) degree.* As for BSc(Eng) above.

*BSc(Eng), mining (mineral dressing option) degree.* As for BSc(Eng) in chem. engin. above.

*BS(Eng), metallurgy degree.* As for BSc(Eng) in chem. engin. above.

*FAC. OF ECON. BSc(Econ) degree.* No requirements in addn. to min. entrance requirements under scheme A or B.

*BSc(Soc) degree.* No requirements in addn. to min. entrance requirements under scheme A or B.

*BSc(EstMan) degree.* A candidate must pass the 1st exam. in estate management before proceeding to the course of study for the final exam. No exemption may be obtained from the 1st exam. by means of (A) passes in the G.C.E. exam.

#### *Approved Subjects in G.C.E. Exam. of London Univ.*

The list of subjs. which are accepted under schemes A and B of the min. entrance requirements (see p. 1376) is as follows: (1) Engl. lang. (O); (2) Engl. lit. (O), (A); (3) geog. (O), (A); (4) hist. (O), (A); (5) Indian hist. (A); (6) Islamic hist. (A); (7) anc. hist. (O), (A); (8) Engl. econ. hist. (O), (A); (9) British constitution (O), (A); (10) econ. (O), (A); (11) logic (O); (12) religious knowledge (O), (A); (13) Greek lit. in translation (O); (14) Latin (O), (A); (15) Greek (O), (A); (16) classical Hebrew (O), (A); (17) mod. Hebrew (O); (18) French (O), (A); (19) German (O), (A); (20) Spanish (O), (A); (21) Italian (O), (A); (22) Russian (O), (A); (23) any other\* approved lang. (O), (A); (24) pure maths. (O), (A); (25) addnl. pure maths. (O); (26) appl. maths. (O), (A); (27) maths. (pure & appl.) (A); (28) phys. (O), (A); (29) chem. (O), (A); (30) phys.-with-chem. (O); (31) geol. (O), (A); (32) general sci. (O); (33) addnl. general sci. (O); (34) bot. (O), (A); (35) zool. (A); (36) biol. or general biol. (O), (A); (37) rural biol. (O); (38) music (O), (A); (39) art (O), (A); (40) human anat., hyg. & physiol. (O).

The selection of subjs. under scheme A or scheme B will be subject to the following limitations: subj. (13) cannot be counted with subj. (15) (O) or (A); subj. (17) cannot be counted with subj. (16); subj. (27) cannot be counted with subj. (24) (O) or (A), subj. (26) (O) or (A); subj.

(25) cannot be counted with subj. (24) (A) or subj. (27); subj. (30) cannot be counted with subj. (28) (O) or (A), (29) (O) or (A), (32), (33); subj. (32) or (33) cannot be counted with subjs. (28), (29), (30), (34), (35), (36) or (37); subj. (34) cannot be counted with subjs. (36) or (37); subj. (35) cannot be counted with subjs. (36) or (37); biol. cannot be counted with general biol. or rural biol.

#### *Recognition of School and Higher School Certs.*

The holder of a Sch. Cert. or Higher Sch. Cert. awarded by one of the approved examining bodies (see above, p. 1360, nos. 3-10 inclusive) may count credits as ordinary level passes in the G.C.E. exam., subsidiary passes as ordinary level passes, and main subj. passes as advanced level passes.

Credits obtained in 1949 or 1950 at a Sch. Cert. exam., or subsidiary passes during the same yrs. at a Higher Sch. Cert. exam., of one of the approved examining bodies (see above, p. 1360, nos. 3-10 inclusive), are accepted as ordinary level passes in the G.C.E. exam.; similarly main subj. passes at a Higher Sch. exam. in 1949 or 1950 will be accepted as passes at advanced level, even if the candidate was not awarded a Sch. or Higher Sch. cert.

#### *Conditions for Acceptance of other Exams.*

A subj. entered on a cert. gained in one of the following exams. will be regarded as equivalent to an ordinary level pass in the corresp. subj. at the G.C.E. exam.: nos. 1, 2, 12, 13, \*14, 15 (see above, p. 1360); matric. exam. of Durham Univ.; matric. exam. of Univ. of Wales; \* passing-out exam. of Royal Naval Coll., Dartmouth; matric. exam. of Nat. Univ. of Ireland; \* Leaving Cert. of Dept. of Educn., Eire; Adelaide Leaving Cert.; Melbourne Sch. Leaving Cert.; Melbourne Univ. matric. exam.; New South Wales Leaving Cert.; Queensland Sr. Public exam.; Sydney Univ. matric. exam.; Tasmania Univ. matric. exam.; Schs. Bd. exam. of Tasmania; Tasmania Public Leaving Cert.; W. Australia Sch. Leaving Cert.; N.Z. Univ. entrance exam.; N.Z. Dept. of Educn. Sch. Cert.; \* matric. exam. of S. African Jt. Matric. Bd.; Natl. Sr. Cert. (matric. equivalent) of Union of S. Africa; \* Secondary Sch. Sr. Cert. of Dept. of Public Educn., Cape of Good Hope; \* Transvaal Secondary Sch. Cert.; \* Orange Free State Sch. Leaving Cert.; \* Natal Sr. Cert.; Ontario Upper Sch. Cert.; British Columbia sr. matric. exam.; sr. matric. exams. of other Canadian univs. and depts. of educn.; \* Ceylon govt. Sr. Sch. Cert. (Engl.); Ceylon govt. General Cert. of Educn. (Engl. medium; from Dec. 1957, any medium)—credit standard only; || Hong Kong Univ. matric. exam.; matric. and Sch. Cert. of Palestine Bd. of Higher Studies (Dept. of Educn., Palestine) [only certs. awarded before May 1948]; \* Cyprus Cert. exam. of Dept.

§ (A) = advanced level; (O) = ordinary level.

\* In exams. marked with an asterisk the acceptable standard is subject to sp. conditions.

|| Recognition has been granted to passes in advanced subjs. in this exam. as being equivalent to (A) level passes in the London G.C.E.



of Educn., Cyprus; Sch. Cert. of W. African Exams. Council (sp. conditions apply); Sch. Cert. of Sudan Exams. Council.

Candidates holding any of the above certs. may satisfy min. entrance requirements by passing at the G.C.E. exam. in addtnl. subjs. at advanced level, together with such ordinary level subjs. as may be required to satisfy the conditions of schemes A or B (see p. 1376).

#### *Recognition of Matric. Qualifs. under Former Regns.*

1. A candidate who holds a qualif. or qualifs. which fully satisfy the regns. governing exemption from the matric. exam. in force before April 30, 1951, but who failed to register as a matriculated student of the univ. before that date, may be granted provisional registration as an internal or as an external student and be permitted to proceed to an inter., prelim. or first exam. provided that his applcn. for provisional registration is supported by a sch. or recog. instn. of the univ. or by a public educnl. instn.

A candidate who is granted such provisional registration as an internal or as an external student will be deemed to have satisfied the min. entrance requirements when he has passed the appropriate inter., prelim. or first exam. to which he is admitted or when he has reached the required standard in that exam. to permit him to proceed with his degree course, and he will then be deemed to have been registered as an internal or as an external student from the date of his provisional registration.

2. Those students who matriculated before April 30, 1951, by passing the matric. exam. or registering as exempt, are deemed to have satisfied the *minimum* conditions of the new regns.

3. Those students who obtain a statement of eligibility under the min. entrance regns. in force from May 1, 1951, to April 30, 1957, are deemed to have satisfied the *minimum* entrance conditions of the revised regns.

4. Candidates in the London matric. exams. held in 1949, 1950 and 1951 are entitled to count subjs. in which they were successful as (O) level even if they did not pass the exam. as a whole.

5. Candidates who passed Engl. at the univ. entrance exams. held between 1951 and 1956 may count the subj. as Engl. lang. (O).

6. Candidates credited with pt. A or pt. B of the matric. may count the subjs. as equivalent to ordinary level subjs. of G.C.E.

#### *Last Date for Receipt of Applications*

(see also paragraph on 'Admission' on p. 965)

For courses other than those in med., dent. or vet. med., candidates are strongly urged by the colls. to send in their applcns., where possible, by Dec. 10 of the yr. prior to that in which entry is desired; applcns. received after Jan. 31 of the

yr. in which entry is desired will not normally be considered. For Bedford Coll. and Royal Holloway Coll. applcns. should, however, be sent in by Nov. 17 and Nov. 30, respectively, of the yr. prior to that in which entry is desired; Univ. Coll. and King's Coll. (for their women students only) require applcns. to be submitted not later than Dec. 31. The Sch. of Oriental & African Studies receives applcns. up to Sept. 1 (*i.e.* the month before the opening of the session in which admission is sought).

For admission to the Royal Veterinary Coll., applcns. should be submitted not later than Nov. 30 of the yr. prior to that in which entry is desired.

For admission to a med. sch., the last date for receipt of applcns. is Oct. 31 of the yr. prior to that in which entry is desired.

### UNIVERSITY COLLEGE OF NORTH STAFFORDSHIRE

Candidates for admission must normally be not less than 17 yrs. of age on Oct. 1 of the yr. in which they desire to be admitted.

The following are eligible for admission:

1. Grads. of univs. of the United Kingdom, or of such other univs. as may be approved by the senate.

2. Holders of a General Cert. of Educn.\* approved as such by the Ministry of Educn. The cert. must show EITHER: *scheme A.* (6 subjs.) A pass in (a) Engl. lang., (b) a lang. other than Engl., (c) *either* maths. or an approved sci. subj. and 3 other subjs. chosen from the approved list of subjs.; and provided 2 of the 6 subjs. are passed at the advanced level; OR *scheme B.* (5 subjs.) A pass in (a) Engl. lang., (b) a lang. other than Engl., (c) *either* maths. or an approved sci. subj. and 2 other subjs. chosen from the approved list of subjs.; provided that 3 of these subjs., incl. 2 at the advanced level, are passed at one and the same sitting.

No subj. may be counted at both ordinary and advanced levels. *Either* maths. or pure maths. or appl. maths. or pure & appl. maths. will satisfy the requirements of maths. under regns. for schemes A and B. Subjects 15 to 22 inclusive (see below) are approved sci. subjs. for the purposes of matric. under schemes A and B.

*Subjects Approved for Matric.* (1) Engl. lang.; (2) Engl. lit.; (3) anc. hist. or anc. civilization or Greek civilization or med. & mod. hist. or biblical hist. & lit.; (4) geog.; (5) econ.; (6) music or art or religious knowledge or dom. sci.; (7) Greek; (8) Latin; (9) French; (10) German; (11) any other approved lang.; (12) general paper; §(13) maths. or pure maths. or pure & appl. maths.; §(14) appl. maths. (may not be taken with pure & appl. maths.); (15) phys.; (16) chem.; (17) phys.-with-chem.; (18) (a) general sci. I, and (18)

\* See above, p. 1360.

§ Candidates submitting Northern Univs. Jt. Matric. Bd. certs. in which maths. subjs. are designated as follows: 'maths.' and 'maths. & theoreet. mechanics', may offer 13. Maths., 14. Maths. & theoreet. mechanics (counts as 2 advanced subjs. but may not be counted with maths.).

(b) general sci. II. General sci. I and/or II may not be counted with any of the following: phys., chem., phys.-with-chem., bot., zool., biol.; (19) bot.; (20) zool.; (21) biol. (may not be taken with either bot. or zool.); (22) geol.

3. Holders of academic certs., or such other proof of academic attainment as may be accepted by the senate as equivalent to 2.

4. Candidates who have been engaged in some trade or profession, provided that they (a) have been so engaged for a period of not less than 3 yrs. and during that time have attended systematic courses of study, e.g. univ. tutorial classes. Sp. importance will be attached to the interview. Approved candidates will be allowed to take a sp. entrance exam. designed to test their capacity to benefit by the courses of study in the coll.; (b) submit an applicn. to the registrar not later than Jan. 31 of the yr. in which they desire to be admitted; (c) have attained the age of 19 on Oct. 1 of the yr. in which they desire to be admitted, and if required, pay an exam. fee of £2.

5. Trained certificated teachers, provided they have passed with distinction in at least 1 of the general subjs. prescribed in a recog. cert. exam.

6. In exceptional cases, holders of such qualifs. as shall satisfy the senate of the high quality of the candidate, provided that these qualifs. show him to be acceptable for the courses offered at the coll.

#### *Last Date for Receipt of Applications*

Applicns. for admission (forms available from registrar) may be received up to Jan. 31 in the yr. in which admission is sought.

### NOTTINGHAM

A candidate is eligible to matric. if he is at least 17 yrs. of age on Oct. 1 in yr. of candidature, and possesses one of the following qualifs.:

GENERAL CERT. OF EDUCN. A G.C.E. awarded by nos. 3-10\* (see above, p. 1360) which satisfies the following requirements:

1. The cert. must show **either** (i) a pass in Engl. lang. and in 5 other subjs. which incl. (a) a lang. other than Engl. and (b) maths. or an approved sci. Two of the subjs. must be passed at advanced level. The required passes must be obtained at not more than three sittings. **Or** (ii) a pass in Engl. lang. and in 4 other subjs. which incl. (a) a lang. other than Engl.; (b) maths. or an approved sci. Two of the subjs. must be passed at advanced level at one and the same sitting together with at least one other of the subjs. required.

2. The subjs. offered by candidates must be chosen from and in accordance with the list given in Appendix A, below. The same subj. may not be counted both at ordinary and advanced level. One, but only one, of the technical subjs. in section II of the list may be counted as a subj. at ordinary

level, whether passed at ordinary or advanced level. The approved sci. required under (i) (b) and (ii) (b) above (para. 1) must be chosen from the subjs. numbered 22 to 37 in the list in Appendix A, below.

#### QUALIFICATIONS OTHER THAN G.C.E.

(A) A degree conferred by an approved univ. after exam.

(b) A cert. showing that the holder has attended a 2-yr. full-time teachers' trg. course and has passed a final exam. of an area trg. organization approved by senate for this purpose.

(c) A cert. showing that the holder is a barrister called to the English bar, or a solicitor admitted to the Roll after passing the final exam. of the Law Society. (Dept. of law only.)

(d) A qualif. obtained before May 1, 1957, which fully satisfies the univ.'s matric. requirements in force up to that date.

RECOGNITION OF SCHOOL AND HIGHER SCHOOL CERTS. (incl. the Cambridge Oversea Sch. and Higher Sch. Certs.).

(a) A pass with credit in a subj. of an approved Sch. Cert. exam. or a pass at subsidiary standard or in a subsidiary subj. of an approved Higher Sch. Cert. exam. will be accepted in lieu of a pass in the corresp. subj. at ordinary level in the G.C.E.

(b) A pass in a principal subj. of an approved Higher Sch. Cert. exam. will be accepted in lieu of a pass in a corresp. subj. at advanced level in the G.C.E.

(c) The holder of approved Sch. and Higher Sch. Certs. will be eligible to matric. provided that he satisfies the conditions of the various schemes.

RECOGNITION OF OTHER CERTS. A pass in a subj. in any of the following exams. will be accepted as equivalent to a pass in the corresp. subj. at ordinary level in the G.C.E. (a) Nos. 1 and 2. (b) Matric. exams. of the univs. of Durham, London, Wales, Queen's Univ. of Belfast, Trinity College, Dublin, National Univ. of Ireland. (c) Nos. 12 and 13. (d) No. 14. (e) Leaving Cert. of the Dept. of Educn., Eire. (f) Passing-out exam. of the Royal Naval Coll., Dartmouth. (g) No. 15. (h) Forces Prelim. Cert. (i) Exams. qualifying for matric. in an approved British overseas univ.

Candidates holding any of the above certs. may qualify for matric. by passing at the G.C.E. exam. in such addtnl. subjs., at advanced or ordinary level, as may be required to satisfy the conditions of the various schemes.

Senate will consider individually, and may declare eligible for matric., (a) a candidate educated elsewhere than in the United Kingdom, on his producing satisfactory evidence of having passed exams. equivalent to those named above and of ability to follow instructn. given in English; (b) a candidate admitted by senate to a course of study for a master's degree by res.

\* Candidates who wish to claim eligibility to matric. by virtue of a G.C.E. awarded by no. 11 are advised to send details of their exam. to the registrar.

§ See above, p. 1360.

*Appendix A*

SECTION I. (1) general paper; (2) Engl. lang. (O\* only); (3) Engl. lit.; (4) Greek hist. or Roman hist. or anc. hist. or Engl. hist. or British econ. & soc. hist. or European hist. or the hist. of the British Empire or American hist. or hist. with foreign texts (counting as two advanced subjs.); (5) geog. or phys. geog. & elem. geol. (O only may not be counted with geol.); (6) econ. or econ. & pol. sci.; (7) religious knowledge; (8) Greek & Roman lit. in translation (may not be counted with Latin or Greek) (O only); (9) art or the hist. & appreciation of art; (10) music; (11) Latin; (12) classical Greek or New Testament Greek or mod. Greek; (13) French; (14) German; (15) Spanish; (16) Italian; (17) Russian; (18) Welsh or Irish or Gaelic or Celtic; (19) Dutch; (20) Danish; (21) any other approved lang.; (22) maths. (may not be counted with pure maths. or appl. maths. or maths. & theoreet. mechanics); (23) pure maths. (may not be counted with maths.); (24) appl. maths. (may not be counted with maths.); (25) maths. & theoreet. mechanics (advanced level only; counts as 2 advanced subjects and may not count with mechanics or maths. or pure maths. or appl. maths.); (26) phys.; (27) chem.; (28) phys.-with-chem. (O only; may not be counted with phys. or chem. or general sci. I or II); (29) bot.; (30) zool.; (31) mechanics; (32) biol. (may not be counted with bot. and/or zool., general sci. I and/or II); (33) general sci. I (O only); (34) general sci. II (O only). (Nos. 33 and 34 may not be counted with any of the following: phys., bot., zool., chem., phys.-with-chem., biol., hist. of sci.); (35) geol.; (36) elementary physiol. (O only); (37) hist. of sci. (O only; may not be counted with any of the following: phys., chem., bot., zool., phys.-with-chem., biol., general sci. I or II).

SECTION II. *Note.*—One subj., but not more, from this section may be counted as an ordinary level subj., whether passed at ordinary or advanced level.

(1) comm. (may not be counted with econ.); (2) handicraft; (3) woodwork; (4) metalwork; (5) mechanical sci.; (6) geometrical & engin. drawing; (7) geometrical & machine drawing; (8) bldg. construction & geometrical drawing; (9) engin. & workshop theory & practice; (10) surveying; (11) dom. sci.; (12) pottery; (13) textiles; (14) spinning & handloom weaving.

*Industrial Matriculation*

A candidate may qualify for matric., solely for the purpose of admission to an inter. course in the fac. of agric. & hort. or of appl. sci., if he possesses:

- (i) a G.C.E. showing passes at ordinary level in Engl. lang., maths. and 3 other subjs. which must incl. *either* at least 1 sci. (for admission to the fac. of agric. & hort.) or

phys. and chem. (for admission to the fac. of appl. sci.); *and*

- (ii) an approved Ordinary National Cert. or a dipl. or a qualif. of equivalent standing; *and*  
(iii) approved practical experience appropriate to his proposed course, extending over a period of not less than 2 yrs.

*Special Entrance Exam. for Mature Candidates*

Candidates unable to qualify for matric. in the normal way but showing promise of being able to profit from a univ. course may at the discretion of the hd. of the dept. concerned be admitted to a spec. exam. held at the univ. in March or Sept. The exam. is open to candidates who are over 21 yrs. of age and consists of an interview and papers in (i) Engl., (ii) three other subjs. chosen in consultation with the hd. of dept. Candidates are allowed to attempt this exam. on one occasion only, except by sp. permission of senate on the recommendation of the appropriate fac. bd.

*Faculty Admission Requirements*

Candidates must not only satisfy the general requirements of matric. set out above, but for admission to certain courses must satisfy also the following spec. requirements. These are set out in terms of the G.C.E. but the univ. will recognize qualifs. of equivalent standard obtained as a result of passing other recog. exams.

Candidates for admission to courses for which no specific requirements are laid down will normally be expected to have a prelim. knowledge (to ordinary standard in the G.C.E. or its equivalent) of the subj. or subjs. of the degree course they propose to follow, except for such subjs. as theol., philos., law, econ., psychol. or sociol. which are not usually taught in schs.

FAC. OF ARTS. *Degree of B.A.* Candidates (other than those for entry to the schs. of music and maths.) will be required to have passed at advanced level in 2 subjs. within the purview of the fac. In addn., candidates for hons. in classics, Engl., French, German and Spanish studies will be required to have passed in Latin at least at ordinary level, and candidates for hons. in med. & mod. hist. will be required to have passed in Latin or French or German at least at ordinary level. Candidates for admission to the sch. of music must have passed at advanced level in music and another subj. and must show proficiency in performance on the piano, or on some other approved instrument, together with a competent keyboard technique. Candidates for the sch. of maths. will be required to have passed at advanced level in maths. counting as 2 subjs.

*Degree of B.Mus.* Candidates for admission will be required to have a reasonable knowledge of the theory of music, and proficiency in performance of an instrument approved by the hd. of the dept.

of music, together with a competent keyboard technique.

**FAC. OF LAW & SOC. SCI. Degree of BA.** Candidates will be required to have passed at advanced level in any 2 subjs. except that these 2 subjs. must be mathematical subjs. if the degree course includes maths.

**Degree of LLB.** Exemption from the qualifying exam. may be granted to students who have passed a comparable exam. approved by senate in subjs. relevant to the degree of LLB, but the degree will not normally be awarded until the student has completed 3 yrs. of study in the univ.

**FAC. OF PURE SCI. Degree of BSc.** Candidates may be exempted from the inter. course and exam. if they furnish evidence of having passed at advanced level in certain specified subjs. in the G.C.E. (normally the subjs. of the 1st yr. final course). Further details from the registrar.

**Degree of BPharm.** Candidates may be exempted from the inter. course and exam. and accepted for direct entry to the final BPharm course if they have passed at advanced level in chem., phys. and either bot. or zool. or biol.

**FAC. OF AGRIC. & HORT. Degree of BSc.** Candidates may be exempted from the inter. course and exam. if they furnish evidence of having passed at advanced level either (i) in chem., bot., and either zool. or phys. or an approved sci. subj., or (ii) in chem., biol. and one other approved sci. subj., which shall not be bot. or zool., or (iii) with the approval of the bd. of the fac. in two of the subjs. named in (i) above.

**FAC. OF APPL. SCI. Degree of BSc.** Candidates (except for metall.) may be exempted from the inter. course and exam. and accepted for direct entry into the final degree courses if they have passed at advanced level in pure maths., appl. maths. (or pure-&-appl. maths.) and phys., except that they will be required to take a spec. course and exam. in chem. at the end of their 1st yr., unless they have passed in chem. also at advanced level.

Candidates for metall. may be exempted if they have passed at advanced level in maths., phys. and chem.; in exceptional circumstances candidates who have passed only in phys. and chem. at advanced level may be exempted from the inter. exam. in those subjs. and from attendance for the inter. yr., but they will be required to take the course and exam. in inter. pure maths. during their 1st yr.

#### *Last Date for Receipt of Applications*

Applicns. for admission to courses in the fac. of agric. and hort. should be submitted at least 18 months before entrance is desired, so that advice may be given about the 12 months' pre-entry practical trg., where appropriate.

For all other courses, applicns. must be submitted by Jan. 31 in the yr. of entrance

## OXFORD

Admission to the univ. ('matriculation') is without respect of sex, age, nationality or creed, and follows upon admission to a society, i.e. a coll. or hall or St. Catherine's Society. No one can become a member of the univ. unless he first becomes a member of one of these societies. An applicn. for admission must therefore be addressed, not to any officer of the univ., but to the proper officer of the society to which admission is desired, i.e. Balliol, Queen's, Magdalen and University—the sr. tutor; Brasenose, New Coll., Jesus, Hertford and Worcester—the tutor for admissions; Christ Church—the sr. censor; St. Catherine's Society—the censor; in other cases—the hd. of the society. (See colls., etc., under Oxford Univ., pp. 1145-1161.) It should be made, if possible, more than 1 yr. before residence is contemplated.

Applicants for admission must normally (a) satisfy the univ. entrance requirements and (b) pass a coll. entrance exam. Societies require certain qualifs. of character and intellectual attainments.

#### *Admission Requirements*

The following qualifications will satisfy the admission requirements:

#### *General*

Persons accepted for admission as sr. students, or as candidates for the degree of BCL or of BPhil or of BSc or of DPhil, or who hold a degree at another univ., such univ. having been approved by the Hebdomadal Council, or as students of mature yrs. recommended by the delegates for extra-mural studies under certain conditions. A cert. of having pursued a course of study extending over 2 yrs. at an approved univ., provided that the applicant has passed all exams. incidental to his course at that univ. and has submitted a cert. of satisfactory progress signed by a competent authority of that univ.; and provided further that the required course of study at an Asiatic univ. has incl. the study of Engl. and has been pursued subsequently to the inter. exam. or to the corresp. stage at a univ. which does not hold an inter. exam.

#### *Great Britain and Ireland*

(i) A General Cert. of Educn. awarded by nos. 3, 4, 5, 6, 7, 8, 9, 10 or 11 \* subject to passing at the ordinary or advanced level in:

- (a) Engl. lang. (for those entering the univ. after Oct. 1, 1964, Engl. lang. will be replaced by a new subj. 'Use of Engl.' to be passed, with certain exceptions, not earlier than the first advanced level pass), and
- (b) 2 of the langs., Latin, Greek, French, German, Italian, Spanish, Russian, Welsh, Afrikaans (one of these must be Latin or Greek, except for those with an advanced level pass in an approved mathematical or

\* See above, p. 1360

scientific subj. or who gain an approved coll. scholp. or exhibition in maths. or sci.), and

- (c) 2 other approved subjs., one of which must be a mathematical or scientific subj.

Passes at advanced level are required in any 2 approved subjs. (except for holders of an approved coll. scholp. or exhibition).

Or (ii) A class in the sr. freshman exam. of Dublin or a cert. of fitness granted by the Scottish Univs. Entrance Bd. or passed in the inter. arts or higher exam. of Birmingham, Bristol, Durham, Leeds, Liverpool, London, Manchester, Sheffield, or the matric. or entrance exam. of Birmingham, Dublin, National Univ. of Ireland, Wales or one of the exams. numbered 2, 13, 14, 15, 16 (a & b), 17\* (see above, p. 1360), provided that it includes passes *inter alia* in 2 of the above-mentioned langs., of which Latin or Greek must be one (but see 'Special Provisions', below).

#### *Dominions and Colonies*

(1) A cert. of having passed either (a) the matric. exam. of the Joint Bd. of the South African Univs., or (b) the Secondary Sch. Cert. exam. of the Educn. Dept. of the Transvaal or Secondary Sch. Sr. Cert. exam. of the Dept. of Educn. of the Cape Province, or (c) the Sch. Leaving Cert. exam. of the Orange Free State or the National Sr. Cert. exam. of the Dept. of Educn., Union of S. Africa, if by either cert. the holder is qualified for exemption from the matric. exam. of the Joint Matric. Bd. of the South African Univs.; provided that it includes passes in 2 of the above-mentioned langs., of which Latin or Greek must be one (but see 'Special Provisions', below); or

(2) A cert. of having passed one of the following, provided that it includes passes in 2 of the said langs., of which Latin or Greek must be one (but see 'Special Provisions', below): an exam. or exams. conducted by a univ. or other public educnl. authority in Canada or New Zealand or Australia which satisfy the requirements for entrance to a univ. in that country, such univ. having been approved by the Hebdomadal Council: Leaving exam. of the Public Exams. Bd. of the Univ. of Adelaide; Leaving Cert. exam. of the Bd. of Secondary Sch. Studies of the New South Wales Dept. of Educn.; matric. exam. of the Univ. of Sydney; Leaving Cert. exam. of the Public Exams. Bd. of the Univ. of W. Australia; Sr. Public exam. of the Bd. of Post-Primary Studies & Exams. of the Univ. of Queensland; Sch. Leaving exam. of Univ. of Melbourne (class B); Schs. Bd. of Tasmania Cert. exam.; the exam. of the 1st yr. at McGill Univ. (BA course), Newfoundland Memorial Univ. or Toronto Univ.; Univ. of Malta matric. exam.; Univ. of Hong Kong matric. exam.; or

- (3) A Ceylon Sr. Sch. Cert. or a Ceylon General

Cert. of Educn. or a West African Sch. Cert. or a sch. cert. of the West African Exams. Council with credits in *inter alia* 2 of the above-mentioned langs., of which Latin or Greek must be one (but see 'Special Provisions', below).

#### *Foreign Students*

A cert. qualifying for admission to a univ. in Austria, Belgium, Czechoslovakia, Denmark, Finland, France, Germany, Greece, Holland, Hungary, Iceland, Italy, Luxembourg, Norway, Poland, Portugal, the Saar, Spain, Sweden, Switzerland, Turkey or Yugoslavia, provided it shows passes in either Latin or Greek, or a cert. of pt. I of the Baccalauréat de l'Enseignement Secondaire in France, provided it shows passes in 2 approved langs. of which Latin or Greek must be one, or a Sudan Sch. Cert. with credits in *inter alia* 2 approved langs. of which Latin or Greek must be one. (See also 'Special Provisions', below.)

#### *Special Provisions*

Natives of Asia and Africa, not being of European or American parentage, can apply for permission to offer a substitute for Latin or Greek in certain of the above certs.

Any requirement of Latin or Greek in the above certs. does not apply to an applicant who either holds an advanced level pass in the G.C.E. in an approved mathematical or scientific subj. (or an approved equivalent in some other exam.) or who gains an approved coll. scholp. or exhibition in maths. or sci.

#### *Admission to Privileged Standing: 'Senior Status'*

The following may be admitted to the status and privileges of a sr. student:

(1) Any person who has obtained a degree at another univ., such degree and such univ. having been approved by the Hebdomadal Council, provided that he shall have pursued a course of study extending over 3 yrs. at the least at a univ. or univs. so approved, or should the Hebdomadal Council in his case approve, partly at a univ. so approved and partly at another or other univs.

(2) Any person who, having been a student at a univ. in a European country, where there is no degree in any way equivalent to that of bachelor of arts but where there are state or univ. exams. at approx. the same stage as the exams. for the degree of bachelor of arts, has passed such state or univ. exam., such exam. and such univ. having been approved by the Hebdomadal Council, provided that he shall have pursued a course of study extending over 3 yrs. at the least at a univ. or univs. so approved.

- (3) Any person who has obtained a degree

\* Latin or Greek must be added to this cert. in the G.C.E.

§ The Hebdomadal Council will not approve any degree of an Indian univ. under this clause unless the course of study leading to it has extended to 3 yrs. subsequently to the inter. exam. In most cases a 1st class is required either in BA hons. or BSc hons. or MA or MSc.

at another univ. and has also been selected to come to Oxford by some body approved, for the purposes of this section, by the Hebdomadal Council.

(4) Any person who, though not eligible under sub-clause (1) or (2) or (3), has satisfied the Hebdomadal Council that he is particularly well qualified to be admitted as a sr. student.

(5) Any med. student of a univ. in the British dominions, except India, Pakistan and Ceylon, or colonies or in Gt. Britain and Northern Ireland may be admitted to the status and privileges of a sr. student; provided that the univ. shall have been approved by the Hebdomadal Council and that he shall have pursued at that univ., or, should the Hebdomadal Council in his case so approve, at more than one univ., for at least 3 yrs., a course of study leading to a degree in med. and shall have passed all exams. incidental to that portion of the course.

A sr. student: (a) may reckon his 1st term as his 4th; (b) is not required to pass any part of the 1st public exam.; (c) is entitled to supplicate for the degree of BA after having kept statutable residence for 6 terms, and having (i) obtained a place in the class list of an honour sch. of the 2nd public exam., or been allowed 'aegrotat', or, if disqualified by standing from obtaining hons., shown such merit as would otherwise have entitled him to a place in the class list; or (ii) satisfied the examiners in the 2nd public exam. in the final hon. sch. of nat. sci. in chem., pt. I, or in metall., pt. I.

No sr. student will be entitled to supplicate for the degree of BA except as above.

*Incorporation.* Admission of members of the univs. of Cambridge and Dublin to incorporation: see p. 1164.

## READING

The univ. holds no matric. exam.

Matric., min. age 17 (usual age for entry 18), is open to:

1. Grads. of univs. in the United Kingdom or other approved univs.

2. Until further notice—

(a) Persons who have passed or are exempt from the matric. exam. of the Univ. of London.

(b) Persons who have qualified for the cert. issued on the result of an approved first exam. for secondary schs. and who at one and the same exam.\* have obtained passes with credit in 5 subjs. as follows: (i) Engl.; (ii) Maths. or Latin or Greek; (iii) three subjs. not already offered under (i) and (ii) above, chosen from the following: (1) hist.; (2) geog.; (3) art or music; (4) Greek; (5) Latin; (6) French; (7) German; (8) one other mod. foreign lang. approved by the univ.; (9) maths.; (10) mechanics; (11) phys.; (12) chem.; (13) phys.-with-chem.; (14) bot.; (15) zool.;

(16) biol.; (17) general sci.; (18) religious knowledge; provided that (a) persons offering maths. under (ii) incl. one of the subjs. (4) to (8); (b) persons offering (13) may not offer (11) or (12); (c) persons offering (16) may not offer (14) or (15); (d) persons offering (17) may not offer (11), (12), (13), (14), (15) or (16).

Persons desiring to qualify for matric. in virtue of subjs. not incl. under (iii) should apply to the registrar.

(c) Persons who have qualified for the 2 certs. issued on the results of approved 1st and 2nd exams. for secondary schs.

(d) Persons who have qualified for the cert. issued on the result of an approved 1st exam. for secondary schs. and whose attainments as shown by the result of an approved 2nd exam. for secondary schs. satisfy the senate.

(e) Persons whose attainments as shown by the results of other approved exams. satisfy the senate.

(f) Persons who, being at least 23 yrs. of age, have passed a spec. exam. for matric. held by the univ. for approved candidates of mature yrs. (Details from the registrar.)

In exceptional circumstances, the senate may exempt from exam., as a condition of matric., persons who are able to produce such evidence of previous educn. and attainments as the senate shall deem sufficient.

3. *Persons entering the univ. up to and incl. Oct., 1962*, who have obtained passes in the General Cert. of Educn. § in Engl. lang. and in either 4 or 5 other approved subjs. provided that (a) the subjs. incl. a lang. other than Engl. and either maths. or an approved sci. subj.; (b) at least 2 of the subjs. have been passed at advanced level; (c) candidates offering 4 subjs. only in addn. to Engl. lang. have passed at one and the same sitting in 2 subjs. at the advanced level and in one other subj. not related to the subjects offered at the advanced level.

The following subjs. have been approved for the purpose of this regn. by the senate:

(1) Engl. lang. (O) ||; (2) Engl. lit. (O, A) ||; (3) hist. (O, A); (4) anc. hist. (O, A); (5) geog. (O, A); (6) econ. (O, A); (7) logic (O); (8) religious knowledge (O, A); (9) art (O, A); (10) hist. & appreciation of art (O, A) (may not be counted with art); (11) music (O, A); (12) Greek (O, A); (13) Latin (O, A); (14) French (O, A); (15) German (O, A); (16) Spanish (O, A); (17) Italian (O, A); (18) Russian (O, A); (19) other specially approved langs. (O, A); (20) hist. with foreign texts (A only; counts as 2 subjs. at A level); (21) maths. (O, A); (22) appl. maths. (O, A) (may not be counted at advanced level unless maths. has been taken at ordinary or advanced level); (23) phys. (O, A); (24) chem. (O, A); (25) phys.-with-chem. (O, A) (may not be counted with phys., chem. or general sci.)

\* Until further notice, 4 passes with credit at one exam. and one pass with credit obtained at another exam. may be accepted.

§ See above, p. 1360.

|| (O) = ordinary level; (A) = advanced level.

(26) bot. (O, A)\*; (27) zool. (O, A); (28) biol. (O, A) (may not be counted with bot. or zool.); (29) geol. (O, A); (30) general sci. (O) (may not be counted with phys., chem., bot., zool., geol. or biol.); (31) physiol. (O) (may not be counted with zool. or biol.); (32) hist. of sci. (O).

The following subjs. have been approved by the senate as alternative options to maths. (see clause (a) above): phys., chem., phys.-with-chem., bot., zool., biol., geol., general sci., hist. of sci.

No subj. may be counted at both the ordinary and the advanced level.

For the purpose of clause (c) above, candidates who offer 2 subjs. at advanced level chosen from subjs. nos. (2)-(20) must offer one subj. chosen from nos. (21)-(32); candidates who offer 2 subjs. at advanced level chosen from nos. (21)-(32) must offer one subj. chosen from nos. (2)-(20).

4. A credit obtained in a Sch. Cert. exam. or a pass at subsidiary standard obtained in a Higher Sch. Cert. exam. will, for the purpose of regn. 3 above, be regarded as equivalent to a pass at ordinary level in a G.C.E. exam. A pass at principal standard obtained in a Higher Sch. Cert. exam. will similarly be regarded as equivalent to a pass at advanced level in a G.C.E. exam.

#### *Requirements for Particular Courses*

**LETTERS.** A candidate qualified for matric. on the G.C.E. will not ordinarily be admitted to an hon. course for the degree of BA in classics, Latin, Greek, Engl., French, Latin and Engl. lit., Greek and Engl. lit., Latin and French, unless he has passed in Latin at advanced level in the G.C.E. (or in an exam. of equivalent standard approved for the purpose of this regn. by the senate), save that in certain circumstances a candidate who has passed in Latin at ordinary level may be admitted to the hon. course in French. A candidate will not ordinarily be admitted to an hon. course in German, Italian or mod. hist. unless he has passed in Latin at ordinary level (or in an exam. of equivalent standard approved for the purpose of this regn. by the senate), save that a candidate who has passed in hist. with foreign texts at advanced level may be admitted to the hon. course in mod. hist.

**SCI.** No spec. requirements.

**AGRIC. AND HORT.** A candidate intending to follow either the pass or hon. course in agric. or dairying or hort. is normally required to have gained, before entering the univ., one yr.'s practical experience of a type suitable to the particular course he proposes to follow. In the case of dairying, it is preferable that 6 mos. of the period should be spent on a dairy farm and 6 mos. in a dairy factory.

#### *Exemption from First-Year Courses and Exams.*

**LETTERS.** No exemption from the 1st univ. exam. in arts is permissible, except for grads. of approved univs.

**SCR.** A student may be totally exempted from the inter. exam. if he has obtained passes at advanced level in a G.C.E. exam. or exams. (or the equivalent in a London inter. or a Higher Sch. Cert. exam.) in the 3 subjs. which he proposes to offer in the general course and final exam. A student wishing to offer microbiol. in the general course must have obtained advanced level passes in chem. and in 2 of the subjs., phys., bot., zool.; if he wishes to offer psychol. in the general course he must have obtained advanced level passes in 3 of the subjs., incl. phys. or zool., that may be offered in the course. Exemption from 1 subj. of the inter. exam. may be given if a student has obtained a pass at advanced level in a G.C.E. exam. in that subj. If given such exemption from exam. in a subj. which he proposes to offer in the general course, he may nevertheless be required to attend a course in that subj.

**AGRIC. AND HORT.** Pass courses are provided in agric., hort. and dairying. First univ. exam. in agric.; the course and exam. are in 2 sections, section A consists of phys., chem., bot., zool. and geol. (the syllabuses for which are the same as those for the inter. exam. in the fac. of sci.), and section B of econ. and the hist. of agric. A student may be exempted from any subj. or subjs. of section A in which he has passed at advanced level in a G.C.E. exam. (or the equivalent in the London inter. or a Higher Sch. Cert. exam. or other approved exam.) on the following conditions:

(a) In the exam. he must offer at least one and not more than three of the subjs. of section A. A student who would need to offer more than three of those subjs. would be required to spend 2 yrs. on the course.

(b) A student intending to follow the pass course in dairying must normally offer phys. whether or not he is eligible for exemption from that subj.; he is not, however, required to offer geol.

(c) A student who has obtained a pass in biol. at advanced level in a G.C.E. exam. (or its equivalent) will normally be exempted from zool. in the exam.

**Hons. courses** are provided in each of the following subjs.: agric. sci., hortic. sci., agric., dairying, agric. bot., hortic. bot., agric. chem. (either in animal nutrition or in soil sci.), agric. econ. These courses are normally divided into yrly. parts; pt. I consists of the inter. exam., the subjs. of which are phys., chem., bot. and zool., save that a student following the hon. course in hortic. sci. or in agric. bot., or in hortic. bot. must offer geol. instead of zool. Total exemption from the inter. exam. may be granted on passes at the advanced level in a G.C.E. exam. in phys., chem., and one of the subjs. bot., zool., biol., maths., but all students entering for the hon. course in agric. bot. or in hortic. bot. or in hortic. sci. would normally be expected to have advanced level passes in phys., chem. and bot. for total exemption. Pts. II, III and IV consist of the course for the hon. subj. which extends over 9 terms. Thus

\* (O) = ordinary level; (A) = advanced level

a student who obtains total exemption from the inter. exam. can complete an honrs. course in 3 yrs.

### *Last Date for Receipt of Applications*

Applicns. for admission should, if possible, be submitted 1 yr. (but not earlier than 18 months) before the proposed date of entry. The closing date for applicns. is Jan. 31 of the yr. in which admission is sought.

## SOUTHAMPTON

The univ. holds no matric. exam., matric. (min. age 17) being open to persons having one of the following qualifs. :

I. (a) A General Cert. of Educn., approved as such by the Ministry of Educn. (see p. 1360), which shows EITHER (a) a pass in six subjs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths. or an approved sci.,\* (iv) at least 2 subjs. at advanced level, provided that (1) the required subjs. be selected from and in accordance with the prescribed list, (2) no subj. may be counted both at the ordinary and at the advanced level; OR (b) a pass in five subjs. which incl. (i) Engl. lang., (ii) a lang. other than Engl., (iii) either maths. or an approved sci.,\* (iv) at least 2 subjs. at advanced level passed at one and the same sitting together with at least 1 other of the 5 required subjs., provided that (1) the required 5 subjs. be selected from and in accordance with the prescribed list, (2) no subj. may be counted both at the ordinary and at the advanced level.

The following subjs. have been approved by the senate for the purposes of this regn. : Engl. lang. ; Engl. lit. ; hist. ; anc. hist. ; anc. hist. & lit. (not to be counted with hist. or anc. hist.) ; geog. ; econ. ; Engl. econ. hist. ; British constitution ; religious knowledge ; art ; hist. & appreciation of art (not to be counted with art) ; music ; Greek ; Latin ; French ; German ; Spanish ; Italian ; Russian ; Welsh ; specially approved langs. ; maths.§ ; pure maths.§ ; appl. maths.§ ; pure & appl. maths.§ (not to be counted with pure maths. or appl. maths., advanced level or ordinary level) ; phys. ; chem. ; phys.-with-chem. (at ordinary level only ; not to be counted with phys., chem., general sci. or addtnl. general sci.) ; bot. ; zool. ; biol. (not to be counted with bot. or zool.) ; geol. ; general sci. and addtnl. general sci. (at ordinary level only ; not to be counted with phys., chem., phys.-with-chem., bot., zool., biol. or geol.) ; general paper.

The senate may in exceptional cases declare

\* The following subjs. have been approved as alternative options to maths. : phys., chem., phys.-with-chem., bot., zool., biol., geol., general sci.

Cambridge : group IV maths. (advanced) or pure maths. (advanced) or appl. maths. (advanced) = 1 advanced level subj. ; maths. (advanced) plus paper III of further maths. taken at the same time = 2 advanced level subjs.

|| As from Oct. 1962, new degree and entrance regns. in arts will be introduced.

¶ Except candidates for honrs. in geog. and maths. (see depl. regns.). Other exemptions for students of mature age, for overseas students, and in other exceptional circumstances can be given only by the fac. bd.

eligible for matric. candidates who do not satisfy the above requirements but can show that they are qualified in (i) Engl. lang., (ii) a 2nd arts subj., and (iii) maths. and/or an approved sci. subj.

(b) A degree of a univ. in the United Kingdom or of such other univs. as may from time to time be recog. by the senate for this purpose.

(c) A cert. as qualified teacher provided that the holder has passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.

II. The senate may declare eligible for matric. :

(a) candidates who do not satisfy the above requirements on their submitting to senate such evidence as it may deem sufficient of having passed exams. equal to any of the above-named and including the requirements of Engl. lang., a foreign lang., maths. or an approved sci. subj. ; (b) in spec. cases candidates over the age of 23, on their submitting to the senate such evidence as it may deem sufficient of previous serious study and of the capacity and attainments requisite to enable them to pursue the course proposed ; (c) barristers-at-law and solicitors of the supreme court.

III. For the purposes of matric. either the holding of an Ordinary National Cert. or the attainment of a satisfactory standard in the 4th yr. upper sch. exam. of any of the Royal Dockyard schs. shall be deemed equivalent to passes at advanced level in any 2 subjs. (other than Engl. lang. or another lang.) in the exam. for the G.C.E.

A pass in the joint pt. I exam. in Engl. of the Instns. of Civil, Mech. and Electr. Engineers shall be accepted as equivalent to a pass in Engl. lang. at ordinary level in the G.C.E. exam.

IV. Students in the univ. who have obtained the cert. in soc. studies after not less than 2 yrs. of residence in the univ. may by spec. permission of the senate be deemed to have been matriculated in the univ. at the beginning of their final yr. of study for the cert. in soc. studies.

### *Faculty and Deptl. Entrance Requirements*

In addition to matric. requirements, candidates for degrees must satisfy the following spec. requirements of both the particular fac. and dept. to which entry is sought.

ARTS.|| Candidates for admission to any course leading to the BA ¶ must have 2 langs. other than Engl. at ordinary or advanced level in the G.C.E. or equivalent exam. ; one at least must be a classical lang. except in the case of the following BA gen. courses, when neither of the 2 langs. need be classical : econ. ; geog. ; German ; hist. ; law ;



maths.; music; philos.; theol. studies; French or Spanish with (a) econ. and/or geog. as 3-yr. subjects or (b) as a 1-yr. course. Gen. courses in French or Spanish otherwise require an ordinary level pass in a classical lang. An ordinary level pass in German or Spanish is required for gen. courses in these subjs. An advanced level pass in French and in a classical lang. is required for a gen. course in French, an advanced level pass in maths. for a gen. course in maths., and an advanced level pass in geog. for a gen. course in geog. An ordinary level pass in Engl. lit. is required for admission to gen. courses in mod. or mediæv. Engl.

Candidates for *BA* *hons.* must normally satisfy the fac. lang. requirement and also the following deptl. requirements of G.C.E. advanced level passes or equivalent exam. in the subjs. shown below :

*Hons. in Engl.* Two advanced level subjs. other than Engl., of which one must be Latin or Greek. In exceptional circumstances applicants who have obtained passes in Engl. and 2 other advanced level subjs., but who have not taken Latin or Greek at advanced level, may be admitted to the course on condition that they take Latin or Greek as an ancillary subj. in the 1st yr. and pass the exam. in this subj.

*Hons. in French.* French, a classical lang. and one other subj. Applicants who have passed in Latin at ordinary level only may in exceptional circumstances be admitted to the *hons.* course.

*Hons. in geog.* Geog. and 2 other subjs. incl. a pass at advanced level, or, in addtn., a pass at ordinary level in one mod. lang. other than Engl.

*Hons. in German.* Ordinary level pass in Latin or Greek expected but not required.

*Hons. in hist.* Ordinary level pass in Latin. In spec. cases exemption will be granted from this requirement on condition that an appropriate qualif. in Latin is obtained before graduation.

*Combined hons. in mod. hist. with pol. & econ.* As for *hons. hist.* (see above).

*Hons. in maths.\** Pure maths. ; appl. maths.

*Hons. in philos.\**

*Combined hons. in philos. & pure maths.\** Pure maths.

*Combined hons. in philos. & pol.\** Advanced level econ. desirable.

The following combined *hons.* courses have no sp. entry requirements other than matric. and the fac. lang. requirement : *Engl. & German* ; *Engl. & Greek or Latin* ; *Engl. & hist.* ; *French & philos.* ; *geog. & hist.* ; *German & Greek or Latin* ; *German & philos.* ; *Greek or Latin & philos.* ; *Latin & Spanish* ; *Spanish with hist.*

**SCI.** Candidates for admission to any course leading to the BSc must have passed the G.C.E. exam. or equivalent exam. in maths. and satisfied the appropriate entrance requirements specified in deptl. regns., which, except in the case of

maths., normally require a pass at advanced level in 3 subjs. Deptl. regns. are as follows :

*Bot.* Bot. (or biol.), chem. and one other sci. subj.

*Chem.* Chem., phys., one other sci. subj. In spec. circumstances appl. maths. or other sci. subj. may be accepted in place of phys.

*Electronics.* Phys., pure maths., and one other sci. subj.

*Geog.* Geog. and any 2 sci. subjs. and a pass at ordinary level in a mod. lang. other than Engl.

*Geol.* A pass in 3 sci. subjs. In sp. circumstances a pass in 1 arts and 2 sci. subjs. may be accepted. No previous knowledge of geol. is required.

*Maths.* and *maths. with aeronautics.* Pure maths. ; appl. maths.

*Phys.* Phys., maths. and one other sci. subj.

*Physiol. & biochem.* Chem. and 2 other sci. subjs.

*Zool.* Zool. (or biol.), chem. and one other sci. subj.

**ENGIN.** Advanced level phys., pure and appl. maths. (or pure maths. and appl. maths.), ordinary level chem. in the G.C.E. or equivalent exam.

The Ordinary National Cert. or a pass in the upper sch. exam. of any of the Royal Dockyard schs. are accepted on the same terms as for matric., but a candidate seeking to qualify in maths. by virtue of the Ordinary National Cert. must have passed in that subj. with distinction.

**ECON.** There are no fac. requirements, other than matric., for entry to the 1st yr. of a degree course, at the end of which there is a qualifying exam. (i.e. econ., econ. hist., British constitution) Exemption from the qualifying exam. and direct entry to the 3-yr. final course may be obtained by a candidate in any subject of this exam. in which he has passed the G.C.E. advanced level, the Higher Sch. Cert. main standard, the prelm. econ. exam., the inter. exam. in econ., comm., arts or sci., of the Univ. of London, the dipl. in pub. admin. and the cert. or dipl. in soc. studies of the Univ. of Southampton, or other exam. approved by the senate on the recommendation of the fac. bd.

**LAW.** No sp. requirements other than matric., but candidates will find it an advantage to have studied Engl. hist. and Latin up to the standard of G.C.E. ordinary level.

### Overseas Students

Applicns. from overseas students, whether resident overseas or in the British Isles, should be submitted through the appropriate govt. authority, e.g. High Commissioner for India or Pakistan, Egyptian Educn. Bureau, British Council, colonial office. Such applicns. must be accompanied by certs. from recog. educn. authorities testifying as to educnl. qualifs., character and financial provision.

\* In these *hons.* schs. neither of the 2 langs. other than Engl., normally required by fac. regns. need be classical.

*Last Date for Receipt of Applications*

The closing date for the receipt of applicns. is Jan. 31 of the yr. in which entry is sought. Applicants for entry to the fac. of engin. who propose spending a yr. in industry before admission to the univ. should apply to the univ. during their last yr. at sch.

**SUSSEX***Minimum Admission Requirements*

1. Candidates for admission must be at least 17 yrs. of age on Oct. 1 of the yr. in which they seek to be admitted.

2. The following are eligible for admission :

- (i) Grads. of univs. in the U.K., or of such other univs. as may be recog. for this purpose.
- (ii) Holders of General Certs. of Educn. awarded by one of the examining bodies\* approved by the Ministry of Educn., subject to the following conditions :
  - (a) The certs. must show passes in 5 or more subjs., incl. Engl. lang., a lang. other than Engl., and a subj. from group II below ;
  - (b) At least 2 of the subjs. must have been passed at advanced level ;
  - (c) If only 5 approved subjs. are shown in all, at least 2 subjs. at advanced level and one other subj. must have been passed at one and the same sitting ;
  - (d) No subj. may be counted both at ordinary and at advanced level ; and
  - (e) The subjs. must be chosen from and in accordance with the following list :

Group I : (1) Engl. lang. ; (2) Engl. lit. ; (3) anc. hist. or Greek civilization ; (4) hist. ; (5) geog. ; (6) econ. ; (7) music ; (8) art ; (9) religious knowledge ; (10) Greek ; (11) Latin ; (12) French ; (13) German ; (14) another approved lang.  
Group II : (1) maths. or addtnl. maths. or pure maths. ; (2) pure & appl. maths. ; (3) appl. maths. ; (4) phys. ; (5) chem. ; (6) phys.-with-chem. ; (7) bot. ; (8) zool. ; (9) biol. ; (10) geol. ; (11) sci. or general sci.

N.B.—1. The following combinations of subjs. in group II cannot be accepted : (2) and (1) or (3) ; (6) and (4) or (5) ; (9) and (7) or (8) ; (11) and (4), (5), (6), (7), (8), (9) or (10).

2. Subjs. not listed may be accepted in certain circumstances ; each case will be considered on its merits.

- (iii) Holders of Sch. Certs. and Higher Sch. Certs. awarded by an approved authority, provided that the subjs. included comply with the provisions of (ii) above. A credit in a Sch. Cert. and a pass at subsidiary

standard in a Higher Sch. Cert. will count as a G.C.E. pass at ordinary level, and a pass at principal standard in a Higher Sch. Cert. will count as a G.C.E. pass at advanced level.

- (iv) Holders of a Cert. of Attestation of Fitness issued by the Scottish Univs. Entrance Bd.
- (v) Holders of matric. certs. of overseas univs. of the British Commonwealth, or of approved foreign univs., provided that they have passed in Engl. lang. at G.C.E. ordinary level, or in an exam. accepted as equivalent thereto.
- (vi) Qualified teachers, provided they have passed with distinction in at least one of the general subjs. prescribed in a recog. cert. exam.
- (vii) Holders of the Army Special Cert. of Educn.
- (viii) Candidates who have satisfied the examiners in the passing-out exam. of the Royal Naval Coll., Dartmouth.
- (ix) Candidates who have passed the Forces Prelim. exam., subj. to interview.

3. The following may be declared eligible for admission :

- (i) Candidates who do not satisfy any of the requirements listed in para. 2 above, but who submit satisfactory evidence of having passed exams. which are deemed equivalent to any of those listed, and which include the subjs. Engl. lang., a foreign lang., and maths. or a sci.
- (ii) Candidates who hold a full practising professional qualif. obtained by exam.
- (iii) In special cases, candidates over 23 years of age on their submitting satisfactory evidence of previous study and of the capacity and attainments requisite to enable them to pursue the course proposed.
- (iv) Candidates for a res. degree on their submitting evidence of sufficient qualifs. for conducting original res.

*Last Date for Receipt of Applications*

4. Applicns. for admission should be made on the prescribed form before Jan. 31 of the yr. in which admission is sought.

*Requirements for Entry to Particular Courses*

These are still under consideration.

**WALES**

The Univ. of Wales no longer holds a matric. exam. and admission is now mainly determined on candidates' performance at the exams. for the General Cert. of Educn. conducted by the Welsh Joint Educn. Cttee. and/or nos. 3-9 and 11.\*

For candidates seeking matric. through the exams. for the G.C.E., the approved subjs. § are : (1) Engl. lang. (O) || ; (2) Engl. (O, A) || ; (3) Welsh

§ Subj. nos. (18)-(29) are approved sci. subjs.

See above, p. 1360

|| (O) = ordinary level ; (A) = advanced level

lang. (O)\*; (4) Welsh (O, A)\*; (5) scripture (O, A); (6) hist. (O, A); (7) Greek & Roman hist. (O, A); (8) Greek (O, A); (9) Latin (O, A); (10) French (O, A); (11) German (O, A); (12) any other lang. approved by the univ. (O, A); (13) econ. (O, A); (14) maths. (O); (15) pure maths. (A); (16) appl. maths. (A); (17) pure & appl. maths. (A); (18) mechanics (O); (19) phys. (O, A); (20) chem. (O, A); (21) bot. (O, A); (22) zool. (A); (23) biol. (O, A); (24) geol. (O, A); (25) practical plane & solid geom. (O); (26) geometrical & machine drawing (O); (27) general sci. (O); (28) agric. sci. (O); (29) geog. (O, A); (30) music (O, A); (31) art (O, A); (32) domestic subjects (O).

Candidates may not count more than one of the subjs. in each of the following groups: (1) and (3); (14), (15) and (17); (14), (16), (17); (18), (19); (21), (23); (22), (23); (25), (26); (27), (28). No candidate who counts (27) or (28) may count one of (18)-(24), and no candidate may count at advanced level both (30) and (31). The same subj. may not be counted at both ordinary and advanced levels.

In order to satisfy min. entrance requirements, a candidate must pass in (i) Engl. lang. or Welsh lang., and either 4 or 5 other subjs., at least 2 of which must be passed at the advanced level; (ii) an addtnl. lang. other than that selected under (i); (iii) maths. or an approved sci. subj. § Candidates who have passed in only 4 subjs. in addtn. to Engl. lang. or Welsh lang. must have passed on one and the same occasion in 3 subjs., at least 2 of which are at advanced level.

The min. age for matric. is 17 yrs.

*Note.*—The certs. of candidates desiring to matric. must in general comply either with the exam. requirements for matric. in force at the time of the award of the certs. or with the present exam. requirements.

### *Exempting Exams.*

A grad. of an approved univ. or coll., or a barrister-at-law, or a solicitor of the supreme court of judicature in England and Wales, or an advocate or other legal practitioner in Scotland, or a med. practitioner registered in the United Kingdom, or a candidate who has qualified for the univ. dipl. in theol. may qualify for matric.

*United Kingdom.* Nos. 13 and 15 || provided that candidate has passed in Engl. lang., a lang. other than Engl., maths. or an approved sci. subj., and 2 other approved subjs.

*Other parts of the Commonwealth and foreign countries.* The matric. exam. of a univ. in Canada, Australia, New Zealand or South Africa which is listed in the *Commonwealth Universities Yearbook*; or of the Univ. of Hong Kong, provided that the candidate passes in the subjs. required.

The matric. exam. of an approved univ. in Belgium or Holland, the inter. exam. in arts or sci. of an approved univ. of India or Pakistan, or of the

univs. of Malta or Ceylon, or the exams. for the French baccalauréat, or the Iraqi baccalaureate, together with a cert. of fitness from the Iraqi Ministry of Educn., if certified in each case by a constituent coll. of the Univ. of Wales to possess a sufficient knowledge of Engl.

The matric. exams. of the Swiss univs., the Royal Norwegian Ministry of Church and Educn., the Palestine Bd. of Higher Studies, the entrance exams. of the Univ. of Iceland; the Secondary Educn. Cert. exam., part II, of the Egyptian Ministry of Educn. (with pass in spec. part); provided in each case that the candidate passes in the subjs. required.

A pass with credit in a subj. in the Ceylon Sr. Sch. Cert. (Engl.) exam. is recog. as equivalent to a pass at the ordinary level in that subj. at the G.C.E. exams., provided that the passes at the ordinary level comply with the grouping requirements and are supplemented by 2 passes at the advanced level in an exam. conducted by the Univ. of London (or any other approved examining body).

### *Special Exemptions*

Candidates of 23 or more yrs. of age, if specially recommended by one of the constituent colls. as having reached a satisfactory standard of educn.

Candidates of 20 or more yrs. of age, who have been either full-time pupils for at least 2 yrs.\* at an approved adult sch. or have been candidates for a univ. dipl. and for at least 1 yr. full-time students at a constituent coll. or an associated theol. coll., are not required to satisfy the condition of passing in 2 subjs. at the advanced level, and may have passed in only 4 subjs. in addtn. to Engl. lang. or Welsh lang., of which one must be a lang. and one maths. or an approved sci. subj., provided in each case that they are specially recommended by a constituent coll. for admission.

Candidates who have passed the appropriate Ordinary or Higher National Cert. exam. or Higher National Dipl. exam. at a recognized teaching centre, after 2 yrs. at least in industry, have passed in Engl. lang. at the G.C.E. exam., and are recommended for an approved degree course by a constituent coll. may qualify for matric.

### *Last Date for Receipt of Applications*

Applicants for admission should obtain a form of applicn. from the registrar of the constituent coll. they wish to enter. Completed applicn. forms should be returned to the coll. registrar by Jan. 31 (Dec. 1 for med. students) preceding the academic yr. of entry.

### *Faculty and Deptl. Requirements*

**Aberystwyth U.C.** For hons. in hist. candidates must have at least a translation knowledge of Latin and French. For schemes of study containing chem. a sufficient knowledge of phys. is required, and for admission to final courses in

\* (O) = ordinary level; (A) = advanced level

§ Subj. nos. (18)-(29) are approved sci. subjs.

|| See above, p. 1360

zool. an adequate knowledge of chem. is required. For certain courses in rural sci. it is advisable to have a period of practical farm experience.

**Bangor U.C.** (a) Candidates for admission to an honrs. course in Greek, Latin, Engl., French, Hebrew and hist. must, before entry on pt. II honrs., submit evidence that they have obtained a pass at the ordinary level in Greek or Latin in the G.C.E. or have reached an equivalent standard. (b) Candidates for honrs. in Latin or Hebrew must have completed before admission to the 2nd yr. of the full honrs. course, the pt. I course in Greek or its equivalent; candidates for honrs. in Greek must have a corresponding qualif. in Latin. (c) Candidates for admission to an honrs. course in hist. must satisfy the hd. of dept. that they have an adequate reading knowledge of Latin. (d) Candidates for admission to an honrs. course in music must satisfy the hd. of dept. that they have adequate executive ability in one practical subj. (e) Honrs. in for. is restricted to those who have maths., chem., phys., at ordinary level, and passes at advanced level in 2 or more of the following: chem., phys., bot., zool.

**Cardiff U.C.** For Latin, French or maths. a pass at advanced level or equivalent is required. For honrs. in hist. usually a translation knowledge of Latin and French is required.

**Swansea U.C.** For honrs. in hist. candidates must have an adequate reading knowledge of Latin, or French, or German, or Welsh. For honrs. in phys. candidates should have advanced level passes in phys. and maths. For honrs. in chem. candidates should have advanced level passes in phys. and chem. For degree courses in engin. candidates should have advanced level passes in maths. and phys., and preferably also in chem. For degree courses in metall. and chem. engin. candidates should preferably have advanced level passes in maths., phys. and chem.

**Welsh National Sch. of Med.** It is not a condition of entry that a student should pass in any particular subj.

#### *Exemptions from Inter. Courses, etc.*

The BA honrs. course is one of 3 yrs., but students may be required to spend 4 yrs. over the course. Normally 3 passes at advanced level, and sometimes 2, ensure entry to a course requiring only 3 yrs.' pursuance. For entry to depts. the subjs. of which are not normally taught in schs., recognition is sometimes given to passes at advanced level in subjs. which are allied or considered to be suitable equivalents.

The BSc honrs. course is one of 4 yrs., but students may be exempted from the inter. course in subjs. passed at advanced level; this makes possible the completion of an honrs. course in 3 yrs. Admission to the 2nd-yr. course of subjs., which cannot usually be taken at sch., may be granted by virtue of advanced level passes in

subjs. regarded as allied or ancillary, e.g. admission is possible to 2nd-yr. courses in metall. and in engin. for those with advanced level passes in maths., phys. and/or chem.

### SCOTTISH UNIVERSITIES ENTRANCE BOARD

*Secretary:* R. A. McL. Davidson, CMG, MA,  
Kinburn House, St. Andrews, Scotland

**Note.**—As from Feb. 1, 1962, new regns. relating to the acceptance by the bd. of passes in the Scottish Leaving Cert. exam. and in the Scottish univs. prelim. exam. will be introduced. Particulars from the secretary.

#### *Summary of Qualifications for Admission to Degree Courses in Scottish Univs.*

No applicant for admission to a degree course in any Scottish univ. may be accepted unless he holds the Cert. of Attestation, which is issued by the Scottish Univs. Entrance Bd. to those who have proved their educn. fitness in one or other of the following ways:

(1) Applicants who have been admitted to an approved degree (other than honorary) of a British or recog. overseas univ.

(2) Applicants who have obtained passes in the Scottish Leaving Cert. and/or in the Entrance Bd.'s prelim. exam. in not more than 2 sessions of exam. in subjs. taken from the following groups: I. Engl., hist. and geog.; II. maths., addtnl. maths. (i.e. any 2 of dynamics, geom., elem. analysis), sci. (i.e. any 2 of the following branches of sci., viz.: phys., chem., bot., zool., geol.); III. Latin, Greek, French, German, Italian, Spanish, Gaelic, Hebrew, Russian, Arabic, Czech, Hindustani (Urdu or Hindi), Icelandic, Irish, Norwegian, Persian, Polish, Sanskrit, Swedish, Turkish, Welsh; IV. music, art and appl. sci. (Scottish Leaving Cert. only), Afrikaans, Amharic, Armenian, Bemba, Bengali, Burmese, Chinese, Danish, Dutch, Efik, Ewe, Fanti, Ga, Ganda (or Luganda), mod. Greek, Gujarati, Hausa, Hungarian, Ibo (or Igbo), Japanese, Kanarese, Malay, Malayalam, Marathi, Oriya, Pali, Portuguese, Punjabi, Roumanian, Serbian, Siamese, Sindhi, Sinhalese, Southern Sotho, Swahili, Tamil, Telugu, Twi, Yoruba. The bd. requires 4 passes to be obtained on the higher standard, or 3 on the higher and 2 on the lower standard. There must always be a pass on the higher standard in Engl. and in 2 subjs. selected from group II and/or group III; and there must be passes in at least one subj. from group II and one from group III. If there is no pass on the higher standard in a group III subj., there must be a pass in higher maths.

(3) Applicants who present General Certs. of Educn. issued by any of the examining bodies, 3-10 \* (and passes awarded by 11 \* in, and after,

1959), showing that passes have been obtained in subjs. recog. by the bd. that must incl. the following: (i) Engl. lang.; (ii) either maths. or a recog. sci.; and (iii) a lang. other than Engl. The subjs. recog. by the bd. are as follows. Group I: Engl. lang., Engl. lit.; geog.; and anc. hist., mod. hist. Group II: maths. (pure); appl. maths. (theoret. mechanics); phys.; chem.; bot.; zool.; geol.; phys.-with-chem.; biol.; general sci. Group III: Latin; Greek; French; German; Spanish; Italian; Russian; Hebrew; Gaelic; Welsh; Irish, etc. Group IV: art and music.

(Note.—Overseas applicants are warned that from Feb. 1, 1961, the bd. will confine its recognition of langs. to the following: (a) Latin; Greek; French; German; Italian; Spanish; Gaelic; Hebrew; Russian; and (b) Arabic; Bulgarian; Czech; Danish; Dutch; Finnish; Hindi; Hungarian; Icelandic; Irish; mod. Greek; Norwegian; Persian; Polish; Portuguese; Rumanian; Sanskrit; Swedish; Turkish; Urdu; Welsh.)

There must be passes *either* in 6 such subjs., at least 2 of them having been awarded at advanced level, of which one must be a group II or group III subj.; *or*, if there are passes in only 5 such subjs., there must be 3 passes at advanced level, one at least from group II or group III and the 3 from not fewer than 2 of the groups. Three passes, incl. at least 2 at advanced level, must have been gained at one sitting. (Note.—The bd. gives notice that in and after 1962 it may cease to recognize advanced passes for the purpose of its regns. unless they are obtained at some prescribed grade above that of the minimum pass mark.)

**Note 1.**—Passes at ordinary standard in the London matric. exam., credits in English Sch. Certs. taken at home or overseas centres, or passes on the subsidiary standard in Higher Sch. Certs., will be treated as if they were passes at the ordinary level, and passes at main or principal standard in such certs. and passes in the inter. arts or inter. sci. exams. of the Univ. of London (including a pass gained under the spec. relationship scheme at a colonial univ. or coll.), as if they were passes at the advanced level in the G.C.E., if collectively they satisfy this rule. The following are also treated as if they were passes at the ordinary level: a very good pass or pass with credit obtained in the Sr. Sch. Cert. exam. or the G.C.E. exam. of the Educn. Dept. of Ceylon or a pass obtained in the Higher Sch. Cert. exam. of the Educn. Dept. of Ceylon; a pass at the ordinary level in the matric. exam. of the Univ. of Hong Kong.

**Note 2.**—A Sr. Cert. of the Ministry of Educn., N. Ireland, issued in 1952 or later, will be accepted if it contains passes in at least 6 subjs. recog. by the bd., incl. Engl. lang.; Engl. lit.; a lang. other than Engl. and a mathematical or scientific subj., on condition that 3 of the passes are at the advanced level, one of them being either in a lang. other than

Engl. or in a mathematical or scientific subj., and that all 6 passes have been gained at not more than two separate sessions of exam. A sr. cert. gained at one session of exam. may be supplemented by a pass or passes gained at one session of the matric. exam. of the Queen's Univ. of Belfast: a pass in this exam. will count as the equivalent of a pass at the advanced level in a cert. of 1952 or later yr. An applicant who has passed at not more than two sittings the matric. exam. of the Queen's Univ. of Belfast in Engl., maths., a lang. other than Engl., and in 2 other subjs. incl. in the groups mentioned in (3), qualifies for attestation.

(4) Passes at 50 per cent., or better, shown in a cert. qualifying the applicant for entry on a degree course in arts, pure sci. or med. at a recog. univ. of the Republic of Ireland, Canada, Australasia or of the Union of South Africa, if they are in subjs. recog. by the bd., will count (1) as passes at ordinary level if the holder completes his qualifs. by means of the G.C.E. exam. (clause (3) above), or (2) as passes on the lower standard if he completes by the Entrance Bd.'s prelim. exam. at any one session of that exam. (clause (2) above). Alternatively a cert. signed by the registrar of a recog. univ. in these countries stating that the applicant has completed satisfactorily the first 2 yrs. of a course leading to a degree in arts, pure sci. or med., and has duly passed in all the subjs. of his course up to that point, will qualify for the Cert. of Attestation. The bd. will not consider applicns. from persons who have failed to pass all the relevant exams. of the first 2 yrs. of an approved degree course, unless they can demonstrate that their failure is attributable to sp. circumstances, e.g. prolonged illness. In all such cases, applicants must submit full details accompanied by appropriate official evidence.

(5) Evidence of the satisfactory completion of the 2nd yr. of a course leading to a degree in arts or pure sci. or of the pre-med. course, of a univ. or coll. in the U.S.A. (other than a jr. coll.) appearing in the current list publ. by the American National Cttee. of Regional Accrediting Agencies, will qualify for the bd.'s Cert. of Attestation if the applicant's academic record shows grades averaging not below B in such of the following subjs. as have been incl. in the first 2 yrs. of his academic course: Engl., foreign langs., maths. (pure and appl.), sci., hist., geog., art and music.

(6) A sch. leaving, matric. or univ. entrance cert. awarded in any one of the following countries and qualifying unconditionally for entrance on a course leading to a degree in arts, pure sci. or med. in a recog. univ. of that country, is acceptable: (a) if it contains passes of 'satisfactory' (or higher) grade in 6 of the subjs. detailed in para. (3) above, and these incl. (1) the lang. of the country issuing the cert.; (2) a 2nd recog. lang.; and (3) either maths. or a recog. sci.; and (b) if at least 2 of these passes (which must incl. Engl. or a subj. of group II or group III [taken in the

written exam.]) are graded as 'very satisfactory'; and (c) on condition that it is supplemented by (1) a London Univ., or Cambridge Sr. Cert. of Proficiency in Engl.; or (2) a pass in spec. Engl. in the Entrance Bd.'s prelim. exam.; provided that exemption from this condition will be granted if the grade 'very satisfactory' has been awarded in Engl. (written and oral). A cert. that fails to satisfy clauses (a) and (b) of this rule for want of a 6th subj., or in respect of the grade of pass required in one subj. only, may be made good by a pass of the requisite standard in an appropriate subj. obtained either (1) in a subsequent session of the original exam., or (2) in the Entrance Bd.'s prelim. exam., in which the pass must be on the higher standard; or (3) in the English G.C.E. exam., in which the pass must be on the advanced level.

The countries are: Norway, Sweden, Denmark, Iceland, Holland, Belgium, France, Luxembourg, Switzerland, Western Germany, Italy, Spain, Portugal and Finland.

Full information as to the regns. for exams. (incl. those relating to applicants who qualify by having fulfilled tests administered by the bd., i.e. the Scottish univs. prelim. exam.) and for exemptions can be obtained from the sec., Scottish Univs. Entrance Bd., Kinburn House, St. Andrews, Scotland.

### ABERDEEN

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Scottish Univs. Entrance Bd. (see above, p. 1391) and (b) any relevant regns. for entrance to particular classes (see below).

There is no min. age limit for admission to the univ.

#### *Regulations for Entrance to Particular Classes*

In general the Cert. of Educnl. Fitness issued by the Scottish Univs. Entrance Bd. is accepted as enabling a student to enter any graduating class. In the case of maths., however, a student will be so admitted only if he has passed in that subj. on the higher standard in the Scottish Leaving Cert. exam. or the univ. prelim. exam. or an equivalent test, or otherwise satisfies the hd. of dept. of his fitness to attend the class: in the case of Greek, Hebrew, Arabic, Syriac and music, a student will be so admitted only if he has passed in the subj. concerned either in the Scottish Leaving Cert. exam. or the univ. prelim. exam. or has otherwise satisfied the hd. of the dept. concerned of his fitness to attend the class. In the case of Roman law (for the degrees of MA, LLB or BL) a student must have passed in Latin in his Leaving Cert. or in the univ. prelim. exam., or satisfied the prof. of jurisprudence that he has an adequate knowledge of the subj.

#### *Last Date for Receipt of Applications*

Applicns. for admission to the univ. to commence study in Oct. must be lodged on the pre-

scribed form for each degree course not later than May 31 (for all facs.). It is desirable that applicns. from overseas should be received by the sec. to the univ. not later than April 30 each yr.

### EDINBURGH

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Scottish Univs. Entrance Bd. (see above, p. 1391) and (b) any relevant regns. for entrance to particular classes (see below).

There is no min. age limit for admission to the univ.

#### *Regulations for Entrance to Particular Classes*

The following prelim. passes are required for entrance to certain classes and for entering or following the curricula for certain hon. groups. If a student intends to take a curriculum containing a class which requires a special qualif., it is desirable that he should have included this qualif. in his Leaving Cert. (or its equivalent), but failing this he may take the subj. in the univ. prelim. exam.

**ARTS AND COMM.** *Ordinary classes in Latin, Greek, French, German, Italian, Spanish, Celtic, Russian.* A pass in the lang. on the higher standard in the Leaving Cert. or some equivalent evidence of proficiency.

*Second ordinary, inter. hon., and hon. classes in Engl., and inter. and hon. classes in French, Italian, Spanish.* A pass in Latin on at least the lower standard in the Leaving Cert. (on the higher for hon. Engl.), or some equivalent evidence of proficiency.

*Hons. in Engl.* A reading knowledge of German (for those specializing in lang.); or of French (for those specializing in lit. or mediæv. studies).

*Hons. in Spanish.* A reading knowledge of French.

*Sanskrit.* A knowledge of Sanskrit grammar (as in Macdonell's *Sanskrit Grammar for Students*) and ability to read simple texts.

*Hebrew.* A knowledge of Hebrew grammar (as in Davidson's *Introductory Hebrew Grammar*), and ability to read simple prose, such as the Book of Ruth or the narratives of Genesis.

*Arabic, Persian, Turkish.* A knowledge of grammar of the lang., and ability to read a simple text.

*Music.* For music in arts, a pass in music in the Leaving Cert., or some equivalent evidence of proficiency. For the course leading to the BMus, a pass in music on the higher standard in the Leaving Cert. and evidence of general proficiency, which may be tested in a qualifying exam. held in June and Sept. consisting of 1 written paper and an oral and practical test.

*Hons. in psychol. and soc. anthropol.* A pass in maths. on the lower standard in the Leaving Cert., or some equivalent evidence of proficiency.

*Maths., 1st ordinary, and nat. philos., 1st ordinary.* For students not proposing to go

beyond 1st ordinary classes a pass in lower maths. in the Leaving Cert., or some equivalent evidence of proficiency.

*Maths., second course; hon. maths. and nat. philos.; technical maths.; mathl. phys. and nat. philos.* For students proceeding beyond the 1st ordinary classes a pass in higher maths. in the Scottish Leaving Cert. or some equivalent evidence of proficiency.

*Meteorol.* An elementary knowledge of mechanics, general phys. and heat.

*Astron.* A knowledge of maths. as represented by the 1st ordinary course in maths., and dynamics as represented by the prelim. exam.

*Ordinary classes in ancient (Gk. & Roman) hist., ecclesiastical hist. and Roman law, and hon. classes in British hist., European hist. (I and II) and Scottish hist.* A pass in Latin on at least the lower standard of the Leaving Cert., or some equivalent evidence of proficiency.

*Hons. in hist.* A reading knowledge of French.

*Hons. in fine art.* A reading knowledge of at least 1 mod. foreign European lang. and a pass in an entrance test prescribed by the Edinburgh Coll. of Art.

*Accounting and business method.* A pass in an admission exam. in book-keeping or evidence of a sufficient practical trg. in an office or otherwise.

*SCI.* For admission to degree courses in pure sci. or in appl. sci.—passes in maths., phys. and chem. on the higher standard in the Leaving Cert., or some equivalent evidence of proficiency. In certain cases for admission to degree courses in pure sci. the requirement of higher phys. and chem. may be relaxed. Besides these general requirements, entrance qualifs. as for arts are required for maths., technical maths., phys. (nat. philos.), chem., astron., meteorol.

*AGRIC.* In addn. to the above general requirements—evidence of a complete 12 months' experience, covering the 4 seasons, on an approved farm.

*LAW. Civil law.* A pass in lower Latin in the Leaving Cert. or some evidence of a sufficient knowledge of the lang.

*MED. AND DENT. SURG.* A student, before commencing the curriculum for graduation, must have the cert. of Attestation of Fitness. Prospective students are advised to incl. elementary phys. and chem. in their sch. or pre-univ. studies.\*

#### *Recognition of Institutions Outside the United Kingdom*

*ARTS.* Undergrads. who have attended courses in another univ. may apply for exemption from one (not the final) yr. of the course for MA or for BCom, and from attendance on classes in 2 subjs. Grads. of another univ. may apply for exemption from exam. as well as attendance. Each applicn. will be considered on its merits.

*SCI.* Certain courses (1st yr. only) may be taken in other univs. or instns. approved by the

univ. court. The Higher Sch. Cert. is not regarded as qualifying for exemption.

*LAW.* The arts degree of certain approved univs. in the Commonwealth and in the United States of America is recognized for admission to the LLB course. Two of the 3 yrs.' study for LLB may be taken at one of the following recog. instns.: the univs. of Oxford, Cambridge and Dublin; the Inns of Court; the Madras Law Sch.; the Maharaja's Law Coll., Trivandrum; Ripon Coll., Calcutta; Univ. of Rangoon; McGill Univ.; King's Coll., London School of Economics, and University Coll. (Univ. of London). The exemption granted is only in respect of attendances at classes, not of exam.

*MED. AND DENT. SURG.* Recognition may be given to courses taken in the 1st 2 yrs. of the curriculum at any univ. of the United Kingdom or at such Commonwealth or foreign univ. or coll., or under such teachers as may be recog. by the univ. court.

#### *Exemption from First-Year Classes*

If the applicant is a grad. in the equivalent fac. of another recog. univ. he may be exempted from 1st-yr. classes.

#### *Last Date for Receipt of Applications*

Forms of applicn. for admission may be obtained from the matric. office, and should be completed and returned not later than the following dates prior to the Oct. in which admission is sought: Nov. 30 (med.), April 1 (music), May 31 (arts, sci.), Sept. 1 (law).

### GLASGOW

Before admission to a degree course in the univ. a student must satisfy (a) the requirements of the Scottish Univs. Entrance Bd. (see above, p. 1391) and (b) any relevant regns. for entrance to particular classes (see below).

There is no min. age limit for admission to the univ.

#### *Regulations for Entrance to Particular Classes*

##### *ARTS.*

- (a) Ordinary classes of Humanity, Greek, French, German, Italian, Hispanic studies, Russian, Polish, Czech, Gaelic, Welsh, Arabic, Norwegian, sr. class of Hebrew.
- (b) Ordinary classes of maths. nat. philos. and astron.

Attendance on any of these classes shall not, except as hereinafter provided, qualify for graduation unless before admission to the class the student has produced evidence that he has passed in the subj. of the class (for (b), in maths.), on the higher standard (where different grades exist) in the Leaving Cert. or the prelim. exam. or on the

\* Applicns. for exemption should be addressed to the dean of the fac. of med.

corresp. standard in another exam. recog. as equivalent: but a student not so qualified, if for spec. reasons he has been admitted to any of these classes by the hd. of the dept. concerned and has passed in the subj. of the class (for (b), in maths.) on the higher standard in the spring prelim. exam. of the same academic yr., may make applicn. to the senatus for the recognition of such pass, and, if such recognition is granted, his attendance and class record will be allowed to qualify for graduation.

- (c) Inter. classes of Humanity, Greek, moral philos.; higher classes of Engl., French, German, Italian, Hispanic studies, Norwegian, Arabic, Russian, Polish, Czech, Gaelic, Hebrew, logic, pol. econ., hist., Scottish hist., econ. hist., maths., nat. philos., astron., geog., music, hist. of fine art; classes of Greek hist., Engl. lang., soc. econ. and stats.

Attendance on any of these classes shall not qualify for graduation on the higher standard unless, before admission to the class, the student has obtained a pass on the ordinary standard in the subj. in which he is taking a double course.

- (d) Higher classes of Engl., French, German, Italian, Hispanic studies, Hebrew, hist.;  
 • hons. classes of Engl., French, German, Italian, Hispanic studies, hist., Scottish hist. & lit.

Attendance on any of these classes shall not normally qualify for graduation unless, before admission to the class, the student has produced evidence that he has passed in Latin or Greek on the higher or the lower standard in the Leaving Cert. or the prelim. exam. or in another exam. recog. as equivalent: but the fac. of arts shall have the power to accept in lieu of such a pass such other evidence of proficiency in the subj. concerned as it may deem equivalent.

(e) Hons. class of Hebrew. Attendance on this class shall not normally qualify for graduation in arts unless, before admission to the class, the student has produced evidence that he has passed in Greek on the higher or on the lower standard in the Leaving Cert. or the prelim. exam. or in another exam. recog. as equivalent, or that he has diligently attended a non-qualifying class in Greek; but the hd. of the dept. shall have power to accept such other evidence of proficiency in Greek as he may deem equivalent. Each case in which this power has been exercised shall be reported to the fac. of arts, and the admission of a student under this provision shall be subject to confirmation by that fac.

(f) Ordinary class of music. Attendance on this class shall not normally qualify for graduation unless, before admission to the class, the student has either (a) produced evidence that he has passed in music on the higher standard in the Leaving Cert. exam., or (b) attended the elem. class and satisfactorily performed the class work; but the hd. of the dept. shall have power to accept such other evidence of proficiency in music

as he may deem equivalent. Each case in which this power has been exercised shall be reported to the fac. of arts, and the admission of a student under this provision shall be subject to confirmation by that fac.

(g) Hons. classes of Humanity and Greek. Attendance on either of these classes will not qualify for graduation unless before admission to the class the student has produced evidence that he has passed on the higher standard in the other of the 2 langs. concerned in the prelim. or the Leaving Cert. exam. or in another exam. recog. as equivalent.

(h) Hons. class of Gaelic. Attendance on this class will not qualify for graduation unless, before admission to the class, the student has passed in the degree exam. in Latin on at least the ordinary standard.

(i) Degree of EdB. Except by spec. permission of the senatus, a candidate who holds his previous degree from a univ. outside the British Isles may not complete the work of the dipl. stage of the degree in less than 2 yrs.

(j) Bachelor of Music. Attendance on a course in music will not qualify for the degree of BMus unless, before admission, the student has satisfied the prof. of music that he is able profitably to pursue the work of the qualifying course and has passed a spec. exam. in specified subj.

#### SCI.

(1) Ordinary classes of maths., nat. philos. and astron. Attendance on any of these classes shall not, except as hereinafter provided, qualify for graduation unless, before admission to the class, the student has produced evidence that he has passed in maths. on the higher standard in the Leaving Cert. or the prelim. exam. or on the corresp. standard in another exam. recog. as equivalent; but a student not so qualified, if for spec. reasons he has been admitted to any of these classes by the hd. of the dept. concerned and has passed in maths. on the higher standard in the spring prelim. exam. of the same academic yr., may make applicn. to the senatus for the recognition of such pass, and, if such recognition is granted, his attendance and class record will be allowed to qualify for graduation.

(2) Classes in double-course subjects. Attendance on any of these classes shall not qualify for graduation on the higher (double-course) standard unless, before admission to the class, the student has passed on the ordinary (single-course) standard in the same subj.

(3) Before presenting themselves for exam. in a double-course subj. candidates must have attended at least 2 qualifying courses in that subj. One of these courses must be a higher course, and all courses in any subj. except maths. must incl. practical or lab. work.

(4) A qualifying course in any subj. shall normally extend over 3 terms, but the senatus, with the approval of the univ. court, may sanction partial courses of not less than one



term's duration, and 2 or 3 such partial courses shall be held to be equivalent to a full normal course in such cases as the senatus, with the approval of the univ. court, may determine and under such rules as may from time to time be made for that purpose.

#### ENGIN.

(1) Maths. (1st course) and maths. (2nd course). These classes may not be taken in the same academic yr. except by express permission of the fac. of engin.

(2) Maths. (1st course) and nat. philos. (ordinary). Attendance on these classes shall not normally qualify for graduation in engin. unless, before admission to the class, the student has produced evidence that in the Leaving Cert. or the prelim. exam., or in another exam. recog. as equivalent, he has passed in maths. on the higher standard, or that he has diligently attended a non-qualifying course in maths.: but the hd. of each of the depts. concerned shall have power to accept such other evidence of proficiency in maths. as he may deem equivalent.

#### *Exemption from Courses*

\* Most ordinances for degrees provide for the recognition of attendance at other univs. Each case is considered on its merits.

#### *Last Date for Receipt of Applications*

Forms of applicn. may be obtained from the registrar after Jan. 31, and must be completed and returned to him between May 15 and May 31 (fac. of med.) and not later than May 31 (facs. of arts, engin. and sci.).

Overseas students must lodge forms of applicn. before April 30 (all facs.).

### ST. ANDREWS

Before admission to a degree course in the univ., a student must satisfy (a) the requirements of the Scottish Univs. Entrance Bd. (see above, p. 1391) and (b) any requirements for admission to a particular fac. (see below).

There is no min. age limit for admission to the univ.

#### *Requirements for Entrance to Particular Facs.*

ARTS. Higher passes in the Scottish Leaving Cert. or Scottish Univs. Entrance Bd.'s prelim. exam., or advanced level passes in the General Cert. of Educn. (or equivalent qualif.) in (a) Latin or Greek, or (b) maths. and one of French, German, Spanish, Arabic, or (c) two of French, German, Spanish, Arabic.

Soc. Sci. No sp. fac. requirements.

SCI. (a) In the Scottish Leaving Cert. or the Scottish Univs. Entrance Bd.'s prelim. exam., passes in higher maths. and in higher sci. (phys.

and chem.); or (b) in the G.C.E. exam., passes, at least at ordinary level, in the *separate* subjs. phys. and chem., and either (i) an advanced level pass in maths., or (ii) an ordinary level pass in maths. and addtnl. maths., or (iii) an ordinary level pass in maths. and a cert. that the applicant has studied elementary calculus and co-ordinate geometry to a level equivalent to that in the higher syllabus of the Scottish Leaving Cert.; or (c) qualifs. equivalent to (a) or (b) above.

APPL. SCI. A pass in maths. on the higher standard in the Scottish Leaving Cert. (or equivalent qualif.). Applicants should also possess a pass in higher sci. (phys. and chem.) in the Scottish Leaving Cert. or passes at least on the ordinary level in phys. and chem. as separate subjs. in the G.C.E.

LAW (BL). A pass in Latin on at least the lower standard in the Scottish Leaving Cert. or a pass on at least the ordinary level in the G.C.E., or some equivalent qualif.

MED. AND DENT. No sp. fac. requirements.

#### *Regulations for Entrance to Particular Classes*

FAC. OF ARTS. Students wishing to attend the general class in Greek, Latin, Hebrew, French, German, Spanish, Arabic or music for the purpose of graduation must have a pass in the subj. concerned on the higher standard in the Scottish Leaving Cert. exam. or some equivalent qualif. The study of Spanish, Hebrew and Arabic may be begun at the univ. For entry to classes in maths., nat. philos., chem. and stats., see below.

FAC. OF SCI. Students wishing to attend the general or first sci. classes in maths. or appl. maths. for the purpose of graduation must have a pass in maths. on the higher standard in the Scottish Leaving Cert. exam. or some equivalent qualif. Students wishing to attend the general or first sci. classes in nat. philos. or astron. for the purpose of graduation must have passes in both maths. and phys. on the higher standard in the Scottish Leaving Cert. exam. or some equivalent qualif. Students wishing to attend the general or first sci. classes in chem. must have a pass in chem. on the higher standard in the Scottish Leaving Cert. exam. or on the ordinary level in the G.C.E. exam. or some equivalent qualif. For attendance at the general or first sci. class in statistics, a pass in maths. in the general MA or first BSc exam. is a prerequisite.

#### *Last Date for Receipt of Applications*

Applicns. for admission should be lodged with the dean of the appropriate fac. as early as possible after Oct. 1 of the yr. preceding that in which admission is desired, and not later than May 31.

### BELFAST

Students must be at least 17 yrs. of age by Oct. 15 of the yr. in which entry is sought.

The matric. exam. comprises Engl., maths. and 3 of the following: (a) Greek; (b) Latin; (c) French; (d) German; (e) Italian; (f) Spanish; (g) mod. hist.; (h) phys.; (i) appl. maths. (j) geog.; (k) chem.; (l) bot.; (m) for facs. of arts, econ., appl. sci. and technol.—Celtic; (n) for med. or appl. sci. and technol.—mechanical drawing; (o) for fac. of arts—music. For arts or med. or econ., one lang. other than Engl. must be taken; for sci. and agric.—French, German or Russian; for appl. sci. and technol.—one of the langs. (a)-(f). Candidates for fac. of arts may, under certain conditions, take Latin or Greek instead of maths. For the fac. of appl. sci., phys. is compulsory; for students of chem. technol. and of pharmaceuticals, chem. is compulsory; for the facs. of sci., of agric., and of med. both phys. and chem. are compulsory.

A candidate who has passed in at least 3 subs., but failed to pass the exam. as a whole, is allowed to complete his matric. at the next subsequent exam.

#### *Exempting Exams.*

Candidates who have passed any of the following exams. are admitted as matriculated students, provided that if they have not passed in all the subs. required by the univ. for matric. in the respective facs. they shall be required to pass in the addnl. subs. at one and the same matric. exam.

*Great Britain and Ireland*—A. Nos. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 (*see above*, p. 1360), provided that in the cases of nos. 3 to 11 inclusive passes have been obtained in (i) Engl. lang., (ii) a lang. other than Engl., (iii) maths. or an approved sci. and (iv) three other subs., 2 of the 6 to be passed at advanced level or (v) two other subs., 3 of the 5 being passed on the same occasion and two of these 3 at advanced level or the cert. has been certified by an appropriate officer of a univ. of England or Wales as satisfying its requirements for matric. No. 13 is subject to certain conditions.

B. Graduation exam. of an Irish, English, Welsh, or Scottish univ.

C. Commonwealth and foreign students receive spec. consideration, provided full details of educn. and relative certs. are submitted.

#### *Special Exemptions*

Students of mature age (not less than 23) may be admitted without passing the ordinary matric. exam. Applicants are dealt with by a spec. cttee. of the academic council, who may submit candidates to such tests of their fitness to profit by the courses of the univ. as they may consider necessary in each case. Applicants must be submitted on or before June 1 in each yr.

In the fac. of appl. sci. & technol., sp. matric. may be given to candidates who have been engaged in industry and who have been awarded ordinary National Certs.

#### *Special Regns. for Entrance to Facs. and Courses*

ARTS. Candidates for the fac. of arts who intend to enter an hon. sch. (except geog., maths., psychol.) must pass in Greek or Latin at matric. Before entering a graduating course in a lang., in maths., and in music, a candidate must have passed in the subj. at a recog. exam. Spec. introductory courses are available in Spanish and Greek preliminary to the graduating course.

MED. Candidates must have passed an exam. in Latin of at least Jr. Cert. (Northern Ireland) standard.

AGRIC. Candidates for entry into the fac. of agric. must satisfy the fac. that they possess a sound knowledge of the practice of agric., and have been engaged for at least 1 yr. in farm practice.

CIVIL ENGIN. Candidates may qualify *either* according to the regns. for the fac. of sci. or for the fac. of appl. sci.

#### *Exemption from First-Year Courses*

In general, exemption from 1st-yr. courses is not granted except in the fac. of sci. In the fac. of appl. sci. exemption may be given for the whole of the 1st-yr. classes and exams. (but not separate subs.) under stringent regns.

#### *Last Date for Receipt of Applications*

Applicants may be received up to Sept. 1 for admission in Oct. of the same yr.

## APPENDIX III

# STUDENTS FROM OTHER COUNTRIES IN UNITED KINGDOM UNIVERSITIES

1959-60

The total number of students from other countries\* enrolled for full-time study or full-time research in United Kingdom universities at the beginning of the academic year 1959-60 was 11,284 (9774 men; 1510 women), which compares with 11,047 in 1958-59 and 10,889 in 1957-1958.

Of these, 7136 came to the United Kingdom from other parts of the Commonwealth; particulars of these students are given in the table on pp. 1400-1401.

The subjects studied by the 11,284 students fall into the categories used by the University Grants Committee in its annual *Returns from Universities and University Colleges* as follows: Agriculture and Forestry, 261; Arts, 4476; Dentistry, 253; Medicine, 2038; Pure Science, 1525; Technology, 2621; Veterinary Science, 110.

The countries from which the largest numbers of students came were: India 1476, U.S.A. 938, Nigeria 883, Canada 458, Pakistan 435, Iraq 369, Ghana 354, South Africa 343, Australia 338, Kenya 322.

4395 of the 11,284 were postgraduate students (i.e. students working for higher degrees or certain higher diplomas or undertaking postgraduate work though not for a degree or diploma). The subjects studied by the 4395 fall into the U.G.C. categories as follows: Agriculture and Forestry, 91; Arts, 1868; Dentistry, 55; Medicine, 786; Pure Science, 842; Technology, 741; Veterinary Science, 12. The countries from which the largest numbers of postgraduates came were: India 763, U.S.A. 561, Canada 330, Australia 253, Pakistan 248, South Africa 170.

2100 of the students were living in college or hall of residence and 9184 in lodgings or with friends or relatives.

4576 students were known to hold an award of some kind (fellowship, scholarship, grant, etc.).

The 11,284 students were distributed in the universities and colleges as follows:

Birmingham 344, Bristol 186, Cambridge 746, Durham 299 (Durham Colleges 44, King's College, Newcastle 255), Exeter 90, Hull 119, Leeds 472, Leicester 43, Liverpool 212, London

4901, Manchester 462, North Staffordshire 22, Nottingham 96, Oxford 866, Reading 81, Sheffield 178, Southampton 71, Wales 314 (Aberystwyth 45, Bangor 74, Cardiff 114, Swansea 71, Welsh National School of Medicine 10), Aberdeen 168, Edinburgh 576, Glasgow 389, Royal College of Science and Technology, Glasgow 151, St. Andrews 229, Belfast 269.

The 4901 students at the University of London§ were distributed as follows: Courtauld Institute 36, Institute of Archaeology 19, Institute of Education 313, Institute of Historical Research 9, School of Slavonic and East European Studies 14, Warburg Institute 5, Bedford 55, Birkbeck 55, Imperial 562, King's 138, London School of Economics 794, Queen Elizabeth 12, Queen Mary 72, Royal Holloway 10, Royal Veterinary 33, Sch. of Oriental and African Studies 199, Sch. of Pharmacy 28, University 446, Westfield 11, Wye 15, Theological Schools 5, Charing Cross 13, Guy's 89, King's Coll. Hosp. Med. Sch. 16, London Hosp. Med. Coll. 28, Middlesex 46, Royal Dental 7, Royal Free 41, St. Bartholomew's 59, St. George's 15, St. Mary's 35, St. Thomas's 27, University Coll. Hosp. Med. Sch. 17, Westminster 18, British Postgraduate Med. Fed. 670, London School of Hygiene 67, Lister Institute 4, Institutions with Recognized Teachers 918 (Battersea 194, Chelsea 77, Coll. of Estate Management 43, East Mallory 3, Jews' 2, Maria Grev 3, Natnl. Inst. for Medical Res. 3, Northampton 68, Northern 48, Rothamsted 11, R. Coll. of Music 3, Sir J. Cass 20, Trinity Coll. of Music 1, West Ham 93, Woolwich 349).

The analysis below gives the total number of students from each of the various overseas countries, as well as some idea of their distribution at universities here.

### ASIA—Total, 4297

Aden—27. Afghanistan—1. Bahrain—5. Brunei—2. Burma—74: London 47, Manchester 5. Cambodia—1. Ceylon—224: London 138, Oxford 19, Cambridge 12. China—3. Cyprus—146: London 66, Glasgow 9, Manchester 8. Formosa—8. Hong Kong—253:

\* For *Yearbook* purposes a student is 'from another country' if his permanent home residence is overseas, i.e. one whose parents are only temporarily resident or employed abroad is not included, nor is one who was born abroad and may therefore have a foreign nationality, but who is now living permanently in the United Kingdom. For the purposes of this list the Channel Islands are not treated as 'abroad'.

§ External students are not included.

London 134, Manchester 22, Cambridge 14, Leeds 14, Liverpool 11. *India*—1476: London 690, R.C.S.T. Glasgow 112, Glasgow 92, Leeds 83, Manchester 82, Cambridge 78, Edinburgh 62, Oxford 60. *Indonesia*—30. *Iraq*—369: London 156, Wales 51, Manchester 33, Birmingham 24, Liverpool 21. *Israel*—106: London 55, Leeds 22. *Japan*—53: London 25. *Jordan*—52: London 31. *Korea*—20. *Kuwait*—18. *Lebanon*—36. *Malaya* (not including Singapore)—262: London 116, Belfast 38, Cambridge 15, Edinburgh 12, Manchester 11. *Nepal*—11. *North Borneo*—5. *Pakistan*—435: London 220, Cambridge 39, Oxford 36, Manchester 19, Edinburgh 16, Birmingham 15. *Persia*—207: London 96, Manchester 26, Birmingham 17, Belfast 12. *Philippines*—20. *Portuguese India*—2. *Qatar*—1. *Sarawak*—9. *Saudi Arabia*—9. *Singapore*—118: London 70, Belfast 10, Cambridge 6. *Thailand*—139: London 64, Belfast 11, Manchester 9. *Trucial States (Dubai)*—1. *Turkey*—112: London 30, Leeds 25, Manchester 19. *United Arab Republic (Syria)*—50: London 28. *Vietnam*—12.

## AFRICA—Total, 2944

*Basutoland*—7. *Belgian Congo*—3. *British Cameroons*—7. *British Somaliland*—13. *Canary Islands*—2. *Ethiopia*—7. *Gambia*—17. *Ghana*—354: London 134, Edinburgh 31, Durham 25, Belfast 22, Manchester 18, Hull 17. *Kenya*—322: London 104, Edinburgh 30, Cambridge 21, Wales 21, Glasgow 16. *Liberia*—3. *Libya*—14. *Madeira*—1. *Mauritius*—140: London 45, Edinburgh 14, Glasgow 10, Belfast 10. *Morocco*—9. *Mozambique*—3. *Nigeria*—883: London 388, Glasgow 52, Edinburgh 51, Hull 49, Belfast 43, Durham 33. *Portuguese West Africa*—1. *Rhodesia and Nyasaland*—133 (*Northern Rhodesia* 38, *Nyasaland* 10, *Southern Rhodesia* 85): London 42, Edinburgh 21, Oxford 20, Cambridge 15. *Seychelles*—3. *Sierra Leone*—107: London 27, Durham 23. *Somalia*—2. *South Africa*—343: London 150, Oxford 63, Cambridge 59, Leeds 15. *Sudan*—100: London 52, Nottingham 9, Edinburgh 9. *Swaziland*—1. *Tanganyika*—77: London 30, Glasgow 9. *Togoland*—1. *Tunisia*—5. *Uganda*—176: London 58, Wales 22, Glasgow 10, St. Andrews 10. *United Arab Republic (Egypt)*—189: London 99, Leeds 21, Manchester 18. *Zanzibar*—21.

## AMERICA—Total, 2162

*Antigua*—3. *Argentina*—40. *Bahamas*—12. *Barbados*—38. *Bermuda*—10. *Bolivia*—7. *Brazil*—18. *British Guiana*—121: London 47, Edinburgh 21, Belfast 9. *British Honduras*—15.

*Particulars of overseas student numbers for 1960-61, which were not available at the time of going to press, may be obtained on request from the Secretary, A.U.B.C., 36 Gordon Sq., London, W.C.1.*

*Canada*—458: London 259, Oxford 74, Cambridge 43, Edinburgh 18, Birmingham 15. *Chile*—17. *Colombia*—18. *Dominica*—7. *Dominican Republic*—1. *Ecuador*—2. *Grenada*—19. *Guatemala*—2. *Haiti*—2. *Honduras*—1. *Jamaica*—133: London 51, Edinburgh 22, Cambridge 10, Oxford 10. *Mexico*—19. *Panama*—8. *Peru*—10. *St. Christopher-Nevis*—6. *St. Lucia*—9. *St. Vincent*—6. *Trinidad and Tobago*—211: London 49, Edinburgh 22, Belfast 18, Wales 16, Aberdeen 14. *U.S.A.*—938: London 335, Oxford 249, Cambridge 103, Edinburgh 56, St. Andrews 49. *Uruguay*—1. *Venezuela*—30.

## EUROPE—Total, 1420

*Austria*—12. *Belgium*—27. *Czechoslovakia*—3. *Denmark*—15. *Finland*—13. *France*—51: London 16, Oxford 13. *Germany*—129: London 39, Leeds 28, Oxford 9. *Gibraltar*—19. *Greece*—151: London 91, Leeds 13, Durham 11. *Hungary*\*—213. *Iceland*—28. *Ireland (Republic of)*—76: London 35, Cambridge 14, Liverpool 11. *Italy*—53: London 30. *Liechtenstein*—1. *Luxembourg*—4. *Malta*—47. *Netherlands*—56: London 22. *Norway*—272: Durham 39, Glasgow 39, London 25, Aberdeen 25, Leeds 24, Edinburgh 21. *Poland*—47. *Portugal*—38. *Spain*—37. *Sweden*—25. *Switzerland*—48. *U.S.S.R.*—8. *Yugoslavia*—47.

## AUSTRALASIA—Total, 461

*Australia*—338: London 173, Cambridge 72, Oxford 64. *Fiji*—3. *New Hebrides*—1. *New Zealand*—118: London 49, Oxford 29, Cambridge 27. *Western Samoa*—1.

There were also 1879 students from other countries (1425 men; 454 women) enrolled for *part-time* study or *part-time* research in United Kingdom universities at the beginning of the academic year 1959-60. Of these, 939 came to the United Kingdom from other parts of the Commonwealth. 777 of the 1879 were post-graduate students. There were part-time overseas students enrolled at all universities except Cambridge, North Staffordshire, Oxford and Belfast, those with the largest numbers being: London 1033, Edinburgh 428, Bristol 62, Wales 53, Manchester 52, Liverpool 50, Durham 39, Glasgow 39, Exeter 28, Aberdeen 21 and Nottingham 16. 675 of the 1879 came from Asia, 470 from Europe, 401 from America, 262 from Africa and 71 from Australasia; the countries from which the largest numbers came were: India 360, U.S.A. 290, Germany 213.

\* Includes 207 Hungarian refugees (178 men; 29 women); the universities at which the largest groups of the 207 were enrolled were: London (72), Durham (14), Wales (13), Liverpool (11), Edinburgh (11), Oxford (10).

# STUDENTS FROM OTHER PARTS OF THE COMMONWEALTH IN UNITED KINGDOM

## MEMBER COUNTRIES

	Total	Male	Female	Postgraduate	Undergraduate	In College or Hall	In Lodgings, with Friends, etc.
Australia	338	301	37	253	85	98	240
Canada	458	400	58	330	128	116	342
Ceylon	224	198	26	129	95	38	186
Ghana	354	336	18	50	304	65	289
India	1476	1323	153	763	713	195	1281
Malaya	262	230	32	40	222	57	205
New Zealand *	119	108	11	89	30	34	85
Pakistan	435	396	39	248	187	62	373
South Africa	343	314	29	170	173	76	267
<b>Total</b>	<b>4009</b>	<b>3606</b>	<b>403</b>	<b>2072</b>	<b>1937</b>	<b>741</b>	<b>3268</b>

## Central African Federation

	133	116	17	28	105	39	94
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## UNITED KINGDOM DEPENDENCIES

Aden	27	25	2	1	26	5	22
Bahamas	12	8	4	—	12	5	7
Basutoland	7	7	—	—	7	1	6
Bermuda	10	4	6	5	5	6	4
British Cameroons	7	6	1	5	2	3	4
British Guiana	121	91	30	18	103	24	97
British Honduras	15	12	3	5	10	4	11
British Somaliland	13	13	—	—	13	5	8
Brunei	2	2	—	—	2	1	1
Cyprus	146	136	10	12	134	15	131
Fiji	3	3	—	2	1	2	1
Gambia	17	15	2	2	15	6	11
Gibraltar	19	18	1	—	19	6	13
Hong Kong	253	197	56	69	184	41	212
Kenya	322	280	42	35	287	81	241
Malta	47	45	2	14	33	7	40
Mauritius	140	128	12	7	133	30	110
New Hebrides §	1	1	—	1	—	—	1
Nigeria	883	812	71	131	752	134	749
North Borneo	5	4	1	2	3	—	5
Sarawak	9	6	3	1	8	6	3
Seychelles	3	3	—	—	3	—	3
Sierra Leone	107	89	18	18	89	17	90
Singapore	118	98	20	26	92	20	98
Swaziland	1	—	1	—	1	—	1
Tanganyika	77	71	6	15	62	14	63
Uganda	176	160	16	20	156	44	132
West Indies Federation	432	321	111	73	359	112	320
Zanzibar	21	19	2	3	18	3	18
<b>Total</b>	<b>2994</b>	<b>2574</b>	<b>420</b>	<b>465</b>	<b>2529</b>	<b>592</b>	<b>2402</b>

## GRAND TOTAL

	7136	6296	840	2565	4571	1372	5764
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Including 1 student from Western Samoa  
§ Anglo-French Condominium

ENROLLED FOR FULL-TIME STUDY OR FULL-TIME RESEARCH  
UNIVERSITIES, 1959-60

Agriculture & Forestry	Arts	Dentistry	Medicine	Pure Science	Technology	Veterinary Science	Total	
8	119	11	94	67	36	3	338	MEMBER COUNTRIES
1	238	2	55	85	77	—	458	Australia
7	69	11	71	35	27	4	224	Canada
23	138	20	121	16	28	8	354	Ceylon
28	409	8	161	205	659	6	1476	Ghana
16	65	8	76	20	74	3	262	India
4	41	4	25	36	7	2	119	Malaya
9	165	—	60	90	109	2	435	New Zealand *
5	119	27	70	61	56	5	343	Pakistan
101	1363	91	733	615	1073	33	4009	South Africa
8	47	1	33	19	14	11	133	Total
—	6	—	13	4	4	—	27	Central African Federation
—	8	—	3	—	1	—	12	UNITED KINGDOM
1	1	—	2	—	1	2	7	DEPENDENCIES
—	8	—	1	1	—	—	10	Aden
—	5	—	2	—	—	—	7	Bahamas
4	53	1	31	13	19	—	121	Basutoland
1	12	1	—	—	1	—	15	Bermuda
2	8	—	2	—	—	1	13	British Cameroons
—	1	—	—	—	1	—	2	British Guiana
3	54	1	18	24	45	1	146	British Honduras
—	2	—	—	—	1	—	3	British Somaliland
—	9	—	4	4	—	—	17	Brunei
—	11	—	5	1	2	—	19	Cyprus
—	58	4	55	49	87	—	253	Fiji
16	112	6	91	38	52	7	322	Gambia
2	23	—	8	10	3	1	47	Gibraltar
2	36	3	49	40	9	1	140	Hong Kong
—	—	—	1	—	—	—	1	Kenya
28	404	18	209	72	130	22	883	Malta
—	5	—	—	—	—	—	5	Mauritius
—	5	—	3	—	1	—	9	New Hebrides §
—	1	1	1	—	—	—	3	Nigeria
4	38	3	28	16	17	1	107	North Borneo
1	36	3	22	14	40	2	118	Sarawak
—	—	—	1	—	—	—	1	Seychelles
2	32	—	16	5	22	—	77	Sierra Leone
15	52	3	37	24	38	7	176	Singapore
11	213	9	104	38	54	3	432	Swaziland
1	8	—	5	—	6	1	21	Tanganyika
93	1201	53	711	353	534	49	2994	Uganda
202	2611	145	1477	987	1621	93	7136	West Indies Federation
								Zanzibar
								Total
								GRAND TOTAL

*Notes.*—Countries are arranged under the general headings which were appropriate at the time of the compilation of the statistics. The subject headings conform to the categories used by the University Grants Committee in its annual *Returns* (e.g. *Arts* includes Economics & Social Studies, Education, Law and Theology).

## APPENDIX IV

# BRITISH ACADEMIC INSTITUTIONS ABROAD

### BRITISH INSTITUTE IN PARIS

Université de Paris:  
Institut Britannique

*Dir.*—F. H. Scarfe, MA *Durh.*, MLitt *Camb.*, FRSL. *Postal address*: British Institute in Paris, 6 rue de la Sorbonne, Paris 5<sup>e</sup> (tel.: Odéon 23-70). *Sec.*—Rosemary White, MA *Oxon.*, 29 Tavistock Square, London, W.C.1 (tel.: Euston 3263).

TEACHING STAFF. ENGL.—Mme. Phyllis Bassarab, BA *Oxon.*, *Dir. of Dept.*; H. O. Quick, BA *Lond.*, *Sr. Lectr.*; A. B. H. Allan, MA *Glas.*, *Sr. Lectr.*; M. Mortimer, BA *Dub.*, *Sr. Lectr.*; Mme. Margaret W. Truffert, BA *Sheff.* (phonetics), E. R. Pratt, BA *Oxon.*, J. B. G. Cooper, BA *Br.Col.*, B. F. Farrington, BA *Dub.*, W. B. Barrie, MA *Edin.*, Mme. Olla Champion, BSc *Lond.*, Mme. Shirley Marro, BA *Dub.*, Mme. Doris A. Blanchard, BA *Lond.*, J. Knowles, BA *R'dg.*, Mme. Paulette Lévy, Mlle. Marie-Claude Blanchet. FRENCH—A. Truffert, *Dir. of Dept.*; P. Moreau (lit.), J. Desseignet (vacation courses), Mme. Odette Mettas, Mme. Marguerite Peyrollaz, Mlle. Marguerite Prinnet, H. Appia, V. Bernard, Mme. M. T. Forté-Gex, Mme. A. Henrion, Mme. L. Moussu, Mme. Pfender, M. G. Quenelle, G. Waringhien.

The inst. was founded in 1927 by joint Anglo-French initiative to provide practical courses in French and English complementary to the instrcn. given in these subjects in the fac. of arts at the Sorbonne.

The dept. of Engl. organizes oral and correspondence courses for French univ. students of Engl. lang. and lit. (1st yr., *licence* and *agrégation* levels) and for the Cambridge exams. in Engl.

The dept. of French organizes courses from Oct. to June at school-leaving, undergrad. and res. levels, and Easter vacation courses for undergrads. and 6th-formers. For British students spending a yr. in French schs. as assistants, a short introductory course is organized in the autumn, and a correspondence course during the academic yr.

Membership of the Meyer-Sassoon library (15,000 vols.) and the students' club is open to all students of the inst., and applicns. are welcomed from other students from British univs. Advice

on lodgings is available for students attending the inst., and is offered when possible to other British students.

### BRITISH SCHOOL AT ROME

*Dir.*—J. B. Ward Perkins, CBE. *Postal address*: Accademia Britannica, Valle Giulia, Rome 51. *Hon. general sec.*—W. D. Sturch, 1 Lowther Gdns., London, S.W.7 (tel.: Kensington 3665).

The sch. was establd. in 1901 as a sch. of archæol. devoted to the study of the antiquities and hist. of Rome and Italy. In 1911 it was reconstituted to offer facilities also for practising students of archit., sculpture and painting. A royal charter of incorporation was granted in the following yr.

The sch. to-day includes 5 facs.: archæol., hist. & letters; archit.; painting; sculpture; engraving. The income of the sch. is derived partly from public funds, partly from the commissioners for the exhibition of 1851, and partly from subscriptions and donations from univs., colls., socs. and private individuals.

An annual Rome scholp. is offered in classical studies, in mediæval studies, and in each of the 4 facs. of the fine arts. Particulars of these and other scholps. attached to the sch. may be obtained from the hon. general sec. (*see above*).

The sch. is in no sense a teaching instn., and admission is normally restricted to winners of one of the above scholps. and to grad. students of the univs. and art schs. of the Commonwealth who are qualified to promote the objects of the sch. Accommod. is available for the staff and about 25 students. There is a library of some 30,000 vols. The *Papers of the British Sch. at Rome* provide an annual account of the more important archæol. and hist. researches of the sch.

### BRITISH SCHOOL OF ARCHÆOLOGY AT ATHENS

*Dir.*—M. S. F. Hood, MA, FSA. *Postal address*: British School of Archæology, Odos

Souedias 52, Athens. Sec.—Edith Clay, FSA, 31-34 Gordon Square, London, W.C.1 (tel.: Euston 8029).

The sch. was founded in 1866. Its first aim is to promote the study of Greek archæol. in all its depts., incl. the study of the hist., religion, art and life of ancient Greece as revealed by the monuments and the exploration of ancient and mediæval sites. Excavations in Greece have always been one of the principal activities of the sch., but it is also in the widest sense a sch. of classical studies, taking every period of Greek lang. and lit., from the earliest age to the present day, as its province. With these ends in view, the sch. co-operates with

univs., museums and other bodies in the United Kingdom and in other parts of the Commonwealth.

The sch. is largely residential. It admits holders of grad. studentships and travelling fellowships awarded by Commonwealth univs., and other persons who satisfy the managing cttee. that they qualify as students, including those of foreign univs. The academic session is from Nov. 1 to June 30. Students may begin work at any date but are normally required to reside for not less than 3 months.

The library contains some 20,000 archæol. and other books, together with maps, plans and photographs.



# APPENDIX V

## SHORT BIBLIOGRAPHY

*The two lists which follow do not claim to be exhaustive and may be supplemented by reference to the 'Publications' paragraph in each university entry above and to the 'Further Information' section of each national introduction.*

### PART ONE

This section lists books and reports of immediate interest which have appeared since the 1960 Yearbook went to press.

- The American Degree.* A comparative study for British students. B. Mellor. (Hong Kong University Press, 1960.)
- Cambridge College Libraries.* A. N. L. Munby. (Heffer, Cambridge, 1960.)
- Cambridge Life.* R. J. White. (Eyre & Spottiswoode, London, 1960.)
- Canadian Universities Foundation :
- Canadian Universities and Colleges, 1960.* Edited by E. F. Sheffield. Seventh edition of biennial handbook. [The 2 charts listed below are included in this book; they are also available separately.] (C.U.F., Ottawa, 1960.)
- First Degree Courses (Honours and Professional) at Canadian Universities and Colleges, 1960-61.* [Chart.] (C.U.F., 1960.)
- Graduate Courses at Canadian Universities, 1960-61.* [Chart.] (C.U.F., 1960.)
- Financing Higher Education in Canada, No. 1: Financial Needs of Canadian Universities and Colleges, 1960.* E. F. Sheffield. (C.U.F., 1960.)
- Catalogue of Films for Universities.* (British Universities Film Council, Royal College of Science and Technology, Glasgow, 1960.)
- Code of Practice for the Protection of Persons exposed to Ionizing Radiations in University Laboratories.* (A.U.B.C. for Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom, 1961.)
- The Complete Scientist: an enquiry into the problem of achieving breadth in the education of scientists and technologists.* (Report of the Leverhulme Study Group to the British Association for the Advancement of Science.) (Oxford University Press, for British Association, 1961.)
- Conference of the Universities of the United Kingdom, 1960: Report of Proceedings.* (A.U.B.C. for Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom, 1961.) Topics of discussion were :  
     'The Future of the General Degree' ;  
     'New Universities'.
- A Conspectus of Management Courses.* (Sir Isaac Pitman & Sons, Ltd., London, 1960.)
- La Démocratisation de l'enseignement.* Bibliographies commentées préparées à l'intention de l'Association Internationale des Universités Vol. I : Europe Occidentale et États-Unis (Prof. H. Janne) ; Vol. II : Pays socialistes (Prof. B. Suchodolski). (Comité Internationale pour la Documentation des Sciences Sociales, Paris, 1960.)
- The Emergent University.* A. Olubummo and J. Ferguson. (Longmans, Green, 1960.)
- Estimates of Australian University Enrolments, 1960-74.* R. B. Davis. (University of New South Wales, Sydney, 1960.)
- The Expansion of Higher Education in the United Arab Republic.* El-Said Mostafa El-Said. (Cairo University Press, 1960.)
- Formal Programmes of International Co-operation between University Institutions.* Report of an International Committee of Experts. Educational Studies and Documents, No. 37. (Unesco, Paris, 1960.)
- The General Certificate of Education and Sixth Form Studies.* Third Report of the Secondary School Examinations Council. (H.M.S.O., London, for Ministry of Education, 1960.)
- Getting into a University: a Brief Guide for the Sixth-Former.* Reprinted from the Appendix to the Second Report of an ad hoc Committee on Procedure for Admission of Students. (A.U.B.C. for Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom, 1960.)
- Guide de l'enseignement supérieur universitaire français.* (Office National des Universités et Écoles Françaises, Paris, 1959.)
- The Humanities in Australia: A Survey with Special Reference to the Universities.* Edited by A. Grenfell Price. (Angus and Robertson, Sydney, for the Australian Humanities Research Council, 1959.)
- If the Gown Fits.* A. P. Rowe. (Melbourne University Press, 1960.)
- International Association of Universities :  
     *The Expansion of Higher Education.* Paper No. 6. (International Universities Bureau, Paris, 1960.)

- The Interplay of Scientific and Cultural Values in Higher Education To-Day.* Paper No. 5. (I.U.B., 1960.)
- Some Economic Aspects of Educational Development in Europe.* A provisional report of a Conference at the Villa Serbelloni, Bellagio, July 1960. (I.U.B., 1960.)
- The Staffing of Higher Education (Some European Situations).* (I.U.B., 1960.)
- Investment in Education.* Report of the Commission on Post-School Certificate and Higher Education in Nigeria. Chairman: Sir Eric Ashby. (Federal Ministry of Education, Nigeria, 1960.)
- McGill: The Story of a University.* Edited by H. MacLennan. (Allen and Unwin, London, 1960.)
- A New University: A. D. Lindsay and the Keele Experiment.* W. B. Gallie. (Chatto and Windus, London, 1960.)
- The Postgraduate Training of Physicists in British Universities.* The report of a joint committee appointed by the Institute of Physics and the Physical Society. (Institute of Physics, London, 1960.)
- Report of a Conference on University Education.* (Australian Vice-Chancellors' Committee, Melbourne, 1960.)
- Report of the Australian Universities Commission on Australian Universities, 1958-63.* (Commonwealth Government Printer, Canberra, 1960.)
- Report of the Commission on National Education.* (Government of Pakistan Press, Karachi, 1960.)
- Report of the Committee on Legal Education for Students from Africa.* Chairman: The Rt. Hon. Lord Denning. Cmnd. 1255. (H.M.S.O., 1961.)
- Report of the Committee on New Zealand Universities.* Chairman: Sir David Hughes Parry. (Government Printer, Wellington, 1960.)
- Report of the University Grants Commission, April 1958-March 1959.* (U.G.C., New Delhi, 1960.)
- Royal Commission on Doctors' and Dentists' Remuneration, 1957-60: Report.* Cmnd. 939. (H.M.S.O., London, 1960.)
- Schools and Universities.* Sir Geoffrey Crowther. (London School of Economics and Political Science, 1961.)
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- Taschenbuch für das wissenschaftliche Leben, 1961.* Vademecum Deutscher Lehr- und Forschungsstätten. (Stifterverband für die Deutsche Wissenschaft, Essen, 1961.)
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- United Kingdom Postgraduate Awards, 1960-62.* Fellowships, scholarships, grants, etc., tenable at universities in the United Kingdom; also short list of awards tenable outside the United Kingdom (by U.K. graduates). (Association of Universities of the British Commonwealth, London, 1960.)
- Universities in South Africa.* Includes a brief description of facilities for research offered by non-University institutions. National Bureau of Educational and Social Research: Information Series No. 2. (Department of Education, Arts and Science, Pretoria, 1960.)
- University College, Ibadan.* J. T. Saunders. (Cambridge University Press, 1960.)
- University Grants Committee: Methods used by Universities of Contracting and of Recording and Controlling Expenditure.* (H.M.S.O., London, 1960.)
- University Grants Committee: Report of a Committee on the Superannuation of University Teachers.* Chairman: Sir Edward Hale. (H.M.S.O., London, 1960.)
- University of Leeds Development Plan, 1960.* (The University, 1960.)
- You and University.* M. D. Parmenter. (Ontario College of Education, Toronto, 1960.)

## PART TWO

This list covers works of more than immediate interest, but for the most part does not include those already listed in Part I. It is divided into three sections: 'General and Reference Books', 'Reports' and 'Periodicals'. Books about single universities are not included.

## GENERAL AND REFERENCE BOOKS

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- Handbook on International Study.* A Guide for Foreign Students on Study in the U.S.A. and for U.S. Students on Study Abroad. (Institute of International Education, New York, 1958.)
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- Index Generalis.* Edited by S. de Montessus de Ballore. Twenty-first year, 1954-55. (Dunod, Paris, 1955.)
- International Association of Universities (see also p. 1404):
- Health at the University.* Papers of the I.A.U. : No. 2. (International Universities Bureau, Paris, 1954.)
- International Handbook of Universities.* Edited by H. M. Keyes. [Covers countries outside Commonwealth and U.S.A.] (I.U.B., 1959.)
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- Life in the Mediaeval University.* Robert S. Rait. (Cambridge University Press, 1912.)
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- Mission of the University.* José Ortega y Gasset. (Routledge and Kegan Paul, 1946.)
- Study Abroad, International Handbook of Fellowships, Scholarships and Educational Exchange.* Published annually. Also annual *Vacation Study Supplement.* (Unesco.)
- Universities: American, English, German.* Abraham Flexner. (Oxford University Press, 1930.)
- The Universities of Europe in the Middle Ages.* Hastings Rashdall. New edition in 1936 by F. M. Powicke and A. B. Emden. (Oxford University Press.)
- World Directory of Medical Schools.* 2nd edition, 1957. (World Health Organization, Geneva.)
- The World of Learning.* Annual. (Europa Publications, London.)
- Australia** (see also p. 16)
- Higher Education in Australia: A Directory of Courses.* (Commonwealth Office of Education, Sydney, 1959.)
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- Canadian Universities and Colleges.* Edited by E. F. Sheffield. (Canadian Universities Foundation, Ottawa, 1960.)
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- Awards for Graduate Study and Research, 1959.* Reference Paper No. 21. (D.B.S., 1959.)
- Canadian Institutions of Higher Education, 1958-59.* (D.B.S., 1959.)
- Fall Enrolment in Universities and Colleges.* Published annually. (D.B.S.)
- Salaries and Qualifications of Teachers in Universities and Colleges.* Published annually. (D.B.S.)
- Survey of Higher Education, 1952-54 (Part II of the Biennial Survey of Education in Canada, 1952-54).* (D.B.S., 1956.)
- University Entrance Awards, 1958.* Reference Paper No. 55. (D.B.S., 1958.)
- University Student Expenditure and Income in Canada, 1956-57.* (D.B.S., 1959.)
- Facilities for Graduate Study in the Humanities and Social Sciences in Canada.* (Canada Council, Ottawa, 1960.)
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- Germany**
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- The Foreign Student in Germany: A Study-Guide.* (German Academic Exchange Service, Bonn, 1958.)
- Scientific and Academic Life in Western Germany: A Handbook.* (Stifterverband für die Deutsche Wissenschaft, Essen, 1957.)
- India**
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- Education in Universities in India, 1956-57.* A statistical survey. (Ministry of Education, Government of India, 1960.)
- Handbook of the [Indian] Universities, 1958.* (Inter-University Board of India, 1958.)
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- Entrance to the University.* W. Thomas, C. E. Beeby, M. H. Oram. (New Zealand Council of Educational Research, Wellington, 1939.)
- New Zealand University Enrolment: Projections to*

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### Pakistan (see also p. 671)

- Handbook of the Universities of Pakistan, 1955-56.* (Inter-University Board of Pakistan, 1956.)  
*Higher Education Examined.* M. Afzal Husain. (University of the Panjab, Lahore, 1956.)

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- The Open Universities in South Africa.* (Witwatersrand University Press, Johannesburg, 1957.)  
*Register of Current Research in the Humanities in South Africa.* Published annually. (National Council for Social Research, Pretoria.)  
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*Civic Universities: Aspects of a British Tradition.* W. H. G. Arnytage. (Benn, London, 1955.)  
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*Government Assistance to Universities in Great Britain.* Memoranda submitted to the Commission on Financing Higher Education. Dodds, Hacker and Rogers. (Columbia University Press, New York, 1952.)  
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*Register of Research in the Social Sciences and Directory of Research Institutions.* Published annually for the National Institute of Economic and Social Research, London. (Aslib, London.)

*Scholarships Abroad.* Scholarships offered to British students by Foreign Governments and Universities. Annual brochure. (British Council, London.)

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*United Kingdom Postgraduate Awards, 1960-62.* Fellowships, scholarships, grants, etc., tenable at universities in the United Kingdom; also short list of awards tenable outside the United Kingdom (by U.K. graduates). Tenth revised edition of booklet. (Association of Universities of the British Commonwealth, London, 1960.)

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*A Guide to Graduate Study: Programs leading to the Ph.D. Degree.* Edited by F. W. Ness. (American Council on Education, Washington, 1960.)  
*Higher Education in the United States: A Summary View.* F. M. Rogers. (Harvard University Press, 1952.)  
*Lovejoy's College Guide.* Edited by C. E. Lovejoy. (Simon and Schuster, New York, 1959.)  
*The New American Guide to Colleges.* G. R. Hawes. (New American Library, New York, 1959.)

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*Engineering Education in the Soviet Union.* Report of a team of engineers who visited Russia in 1956. (Institutions of Civil, Mechanical and Electrical Engineers, London, 1957.)

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*Eighth Congress of Universities of the Commonwealth, 1958: Report of Proceedings.* (Association of Universities of the British Commonwealth, London, 1959.) Companion volumes for First (1912), Second (1921), Third (1926), Fourth (1931), Fifth (1936), Sixth (1948) and Seventh (1953) Congresses.

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*Commonwealth Education Conference: Report.* Cmd. 841. (H.M.S.O., London, 1959.)

*Conference of European University Rectors and Vice-Chancellors: Report.* (Western European Union, London, 1955.)

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## Africa

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*Commission on Higher Education in West Africa: Report.* Chairman: Rt. Hon. Walter Elliot. Cmd. 6655. (H.M.S.O., 1945.)

*Working Party on Higher Education in East Africa.* Chairman: Dr. J. F. Lockwood. (Government Printer, Nairobi, 1959.)

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## Nigeria

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## Pakistan

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## South Africa

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*Students from the Colonies.* Broadsheet No. 374. (P.E.P., 1954.)

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*Universities and Adult Education.* Broadsheet No. 328. (P.E.P., 1951.)

*University Courses.* Broadsheet No. 306. (P.E.P., 1949.)

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- University Grants Committee: Returns from Universities and University Colleges in Receipt of Treasury Grant.* University statistics. Published annually. (H.M.S.O.)
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- General Education in a Free Society: Report of the Harvard Committee.* (Harvard University Press, 1945.)
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- West Indies Committee of the Commission on Higher Education in the Colonies: Report.* Chairman: Sir James Irvine. Cmd. 6654. (H.M.S.O., 1945.)

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- Bulletin of American Association of University Professors.* Edited by W. P. Fidler. (A.A.U.P.)
- Bulletin of International Association of Universities.* Published quarterly. (International Universities Bureau, Paris.)
- Communication.* Journal of International Association of University Professors and Lecturers. Edited by Prof. R. C. McLean. Published at irregular intervals. (I.A.U.P.L., London.)
- The Educational Record.* Published quarterly (American Council on Education.)
- Universities Quarterly.* Edited by Boris Ford. (Turnstile Press, London.)
- The Universities Review.* Edited by Prof. C. M. MacInnes. Issued by the Association of University Teachers.
- University Affairs.* Edited by Dr. E. F. Sheffield. Published four times a year. (Canadian Universities Foundation, Ottawa.)

# APPENDIX VI

## COMMONWEALTH SCHOLARSHIP AND FELLOWSHIP PLAN

The Commonwealth Scholarship and Fellowship Plan was drawn up in Oxford in July 1959 at the Commonwealth Education Conference, a meeting of official delegates from the various countries convened by the United Kingdom government in accordance with a decision of Commonwealth Ministers at the Trade and Economic Conference held at Montreal in September 1958. The Montreal conference, in stressing the importance of education and training to the development of the different countries, had expressed the hope that they would be able to share with each other the advantages of education of all kinds and at all levels and had envisaged a scheme of 1000 scholarships, of which the United Kingdom undertook to provide one-half and Canada one-quarter. All the Commonwealth countries and most of the colonial territories were represented at the Oxford conference which, in addition to recommending arrangements for Commonwealth co-operation in such matters as technical training and the supply and training of teachers, worked out details of the proposed scheme of scholarships and fellowships. These constitute the Commonwealth Scholarship and Fellowship Plan, to which effect is being given by decisions of the various governments. It aims (as stated in the report of the conference) at enriching each country of the Commonwealth by enabling an increasing number of its abler citizens to share the wide range of educational resources available throughout the Commonwealth and thus at promoting equality of educational opportunity at the highest level.

The general basis of the Plan is that the government of every Commonwealth country may offer scholarships and fellowships tenable at its own universities, colleges and other institutions of higher education by men and women from the other countries; at Oxford announcements were made of initial offers of awards by certain countries, as follows:

United Kingdom	500
Canada	250
Australia	100
India	100
Pakistan	30
New Zealand	25
Federation of Malaya	12
Ghana	10
Federation of Rhodesia & Nyasaland	10
Ceylon	6
East Africa	4

It is provided that each 'receiving' country will be responsible for the administration of its own awards but that local assistance will be made available to it by appropriate authorities in the 'sending' countries where competitions for them are held; while the Plan is Commonwealth-wide, it is sufficiently flexible to take account of the diverse and changing needs of the several countries, and bilateral arrangements between them are contemplated.

In general there are two kinds of awards—*Commonwealth Scholarships* which are normally intended for young graduates of high intellectual promise who may be expected to make a significant contribution to life in their own countries on their return from postgraduate study overseas, but which may be awarded for undergraduate study in cases where facilities for such study are not available in the sending country; and *Commonwealth Visiting Fellowships* which are intended for a few senior scholars of established reputation and achievement. The main emphasis is on awards in the academic (including technological) fields but the possibility is not excluded of some awards to people outside these fields who play important roles in the life of their community.

The value of the awards is determined by each receiving country and is set out in its announcement inviting applications for them; in general it is expected that the emoluments will include fares to and from the receiving country, payment of tuition fees, allowances for books, special clothing and local travel, and a personal maintenance allowance. Scholars who are married may be granted additional marriage allowances by some countries. The normal period of tenure for a Commonwealth Scholarship is two academic years but this period may be made longer or shorter in particular circumstances. Scholars will be expected to return to their own countries at the end of their tenure.

By the end of 1960 practically all the countries which made initial offers of awards as mentioned above, and in addition Hong Kong, Malta and South Africa, had implemented them to the extent of announcing competitions in other countries for these awards, and in the case of some awarding countries the first group of their scholars had been selected and placed in universities and other institutions by the beginning of the current academic year. Already several countries have invited applications for the next year's awards, and competitions, with various closing dates according to



the requirements of the respective awarding countries, are proceeding throughout the Commonwealth along the general lines laid down at the Oxford conference. There has been wide interest in the scheme in every part of the Commonwealth, and while in the first year a large number of applications has been received by the several agencies, it is expected that this interest will continue to grow as the scheme develops.

The Commonwealth Scholarships offered by the United Kingdom—to take a single example of the form given to its competition by one awarding country—are tenable at its universities, colleges of technology and other educational establishments and are open to men and women under 35, preference being given to those in the 22–28 age range; only Commonwealth citizens and British protected persons are eligible to apply. These awards are offered in the other countries and territories on the basis of a series of 'notional quotas', the general understanding being that they will be shared in roughly equal proportions between the older countries of the Commonwealth, the more recently independent countries and the dependent territories. Other awarding countries have announced similar but not identical conditions; all of them publish their own notices for circulation in the countries from which applications by candidates are invited. These announcements (with closing dates) will normally be displayed in universities and colleges and (where appropriate) will appear in the local press.

Candidates for Commonwealth Scholarships offered by whatever receiving country are required to apply through the appropriate scholarship agency in their *country of normal residence*, i.e. a student who is already temporarily abroad in another country of the Commonwealth may not apply in that country for an award wherever tenable, but must lodge his application with the agency in the country where he ordinarily lives. It will then be considered in the local competition for awards offered by the particular receiving country. On the other hand, a citizen of one Commonwealth country who has established his permanent home in one of the other countries must, irrespective of his legal citizenship, submit his application in his adopted country and be judged in the competition with the other applicants there.

Each country in the Commonwealth has designated a local agency for the Commonwealth Scholarship and Fellowship Plan to handle (a) the preliminary selection for awards offered by other receiving countries and (b) the final selection from nominations submitted from sending countries for its own awards. These agencies also distribute to prospective candidates information papers and application forms for the various awards and will, generally speaking, be the best local centres of information about details of the Plan. At the beginning of January 1961, the list of those in the principal countries and territories with their

postal addresses stands as follows (in dependent territories not mentioned enquiry should be made at the principal education office):

*Aden*: Department of Education, Crater, Aden (Member in Charge of Education).

*Australia*: Commonwealth Office of Education, P.O. Box 189, North Sydney, N.S.W., Australia (Director).

*Bahamas*: Civil Service Commission, Nassau, Bahamas (Chairman).

*Barbados*: Ministry of Education, Government Headquarters, Bridgetown, Bahamas (Permanent Secretary).

*British Guiana*: Director of Education, Georgetown, British Guiana.

*British Honduras*: Office of Member for Social Services, Belize, British Honduras (Principal Assistant Secretary).

*Canada*: Canadian Universities Foundation, 77 Metcalfe Street, Ottawa 4, Canada (Executive Director).

*Ceylon*: Ministry of External Affairs, 21 Prince Street, Colombo 1, Ceylon (Permanent Secretary).

*Ghana*: Scholarships Secretariat, P.O. Box M. 75, Ministry Branch Post Office, Accra, Ghana (Registrar of Scholarships).

*Gibraltar*: Commonwealth Education Scholarships Committee, Department of Education, 122 Irish Town, Gibraltar (Secretary).

*Hong Kong*: Education Department, Battery Path, Hong Kong (Director of Education).

*India*: Ministry of Scientific Research and Cultural Affairs, C.S. 3 (Com), Curzon Road Barracks, New Delhi, India (Deputy Educational Adviser and Secretary, Commonwealth Scholarships Plan).

*Jamaica*: Ministry of Education, P.O. Box 498, Kingston, Jamaica (Permanent Secretary).

*Kenya*: Director of Education, P.O. Box 30040, Nairobi, Kenya.

*Federation of Malaya*: Ministry of Education, Federal House, Kuala Lumpur, Malaya (Mr. E. J. Hackling).

*Malta*: Director of Education, 141 St Christopher's Street, Valletta, Malta.

*Mauritius*: Ministry of Education and Cultural Affairs, Port Louis, Mauritius (Principal Assistant Secretary).

*New Zealand*: University of New Zealand, P.O. Box 8035, Wellington, New Zealand (Secretary, Commonwealth Scholarships and Fellowships Committee).

*Nigeria*: Federal Ministry of Education, Lagos, Nigeria (Chief Federal Adviser on Education).

*North Borneo*: The Secretariat, Jesselton, North Borneo (Chief Secretary to the Government).

*Pakistan*: Ministry of Education, Government of Pakistan, Karachi, West Pakistan (Deputy Educational Adviser).

*Federation of Rhodesia & Nyasaland*: Federal Commonwealth Scholarships Board, c/o Ministry of Education, P.O. Box 8024, Causeway, Salisbury, Rhodesia and Nyasaland (Secretary).

*Singapore*: Ministry of Education, Kay Siang Road, Singapore 10 (Permanent Secretary).

*South Africa*: Department of Education, Arts and Science, Private Bag 122, Pretoria, South Africa (Secretary, Commonwealth Scholarship Committee).

*Tanganyika*: Ministry of Education, P.O. Box 9121, Dar es Salaam, Tanganyika (Permanent Secretary).

*Trinidad*: Ministry of Finance (Training Section), Whitehall, Port of Spain, Trinidad (Permanent Secretary).

*Uganda*: Central Scholarships Selection Committee, P.O. Box 3918, Kampala, Uganda (Secretary).

*United Kingdom*: Commonwealth Scholarship Commission, Association of Universities of the British Commonwealth, 36 Gordon Square, London, W.C.1, United Kingdom (Secretary).

*Zanzibar*: Scholarship Selection Committee, c/o Department of Education, P.O. Box 162, Zanzibar (Secretary).

Information about the development of the schemes of educational co-operation within the Commonwealth as recommended at the Oxford conference, other than the Commonwealth Scholarship and Fellowship Plan, may be obtained from the governments concerned or from the Commonwealth Education Liaison Unit, 1 Princes Gate, London, S.W.7. *A Report of the Commonwealth Education Conference at Oxford* has been published (H.M.S.O., 1959; Cmd. 841).

## APPENDIX VII

# THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH

THE Association of Universities of the British Commonwealth is a voluntary association of institutions of university and university college standing in the various countries of the Commonwealth. It is incorporated as a limited company under the Companies Acts of the United Kingdom, its office being at 36 Gordon Square, London, W.C.1, and its membership in January 1961 comprising 124 universities and colleges. Any corporate body wishing to join the Association must apply to the executive council of the Association, whose practice is to consult the inter-university organization in the country concerned as to the academic standing of the applicant institution before deciding the question of admission.

The Association was established in 1912 as a result of the first Congress of the Universities of the Empire which was convened in that year by the University of London; one of the decisions of the delegates of the fifty-three home and overseas universities who attended was that a Bureau should be maintained in London by the contributions of the several universities for the purpose of disseminating information on all matters of common interest, including the publication of a yearbook and the summoning of future congresses at five-yearly intervals. In 1919 the Bureau was incorporated under licence of the Board of Trade and a grant was made by H.M. government for central offices on condition that the universities themselves undertook to provide adequate funds for maintenance. This building was destroyed in 1940, but new offices were provided after the war from the subscriptions of member universities which continue to be the main income of the Association as it is not in receipt of any government grant.

The affairs of the Association are controlled by an executive council elected each year at an annual general meeting of members. Each member institution is entitled to be represented at this meeting by its executive head (vice-chancellor, president or principal) or by a personal deputy whom he may appoint; the meeting elects a council of 16 members to represent member universities in the different countries, and a chairman, vice-chairman and honorary treasurer are appointed by the new council. In practice the

chairmanship is occupied by a university vice-chancellor or president chosen from the different countries of the Commonwealth in turn, usually with regard to the venue of any overseas meeting of the Association in the year concerned.

Since 1912 seven further congresses of universities have been held under the auspices of the Association—in 1921 at Oxford, in 1926 at Cambridge, in 1931 at Edinburgh, in 1936 at Cambridge, in 1948 at Oxford and in 1953 at Cambridge. The eighth Congress of Universities of the Commonwealth was held at McGill University, Montreal, in September 1958, and was the first of the series to take place outside the United Kingdom. These congresses, at approximately quinquennial intervals, are major events in the field of Commonwealth conferences on higher education, each member university being invited to send a representative delegation. The 1958 congress was attended by 385 delegates, 102 member institutions being represented. The 1963 congress will be held in London. The Association has, since the war, held a number of smaller conferences in various parts of the Commonwealth; these are usually in the form of a meeting of the executive council and consequently involve the visit to one academic centre of some 12 to 15 heads of universities from the other countries. Such meetings were held at Halifax, Canada, in 1949; at Wairakei, New Zealand, in 1950; at Madras, India, in 1952; at Kingston, Canada, in 1954; at Melbourne, Australia, in 1955; at Lahore, Pakistan, in 1956; at Johannesburg and Grahamstown, South Africa, in 1960; and in Hong Kong in 1961.

The Association's office in London has a full-time staff of twenty-six, and, besides acting as an information bureau and as a reception centre for visiting academic teachers and administrative officers, particularly those from universities overseas, undertakes on behalf of its member institutions any special business which they may desire to have transacted in Europe. Considerable sections of this work are in connexion with the assistance given to overseas universities in obtaining and investigating applications for advertised vacancies on their teaching staffs, and in connexion with the affairs of the Committee of Vice-

Chancellors and Principals of the Universities of the United Kingdom, of which the Association under a special financial arrangement provides the secretariat. Since 1959 the Association has been undertaking certain responsibilities in connexion with the Commonwealth Scholarship and Fellowship Plan (see p. 1411) particularly by providing the secretariat for the Commonwealth Scholarship Commission in the United Kingdom. The Association also provides the secretariat for the Marshall Aid Commemoration Commission which administers a scheme under which 24 scholarships are offered annually to U.S. graduates for study at U.K. universities. The staff performs its functions under the direction of the secretary and the deputy secretary, and includes several other graduates.

The *Commonwealth Universities Yearbook* has been produced regularly by the Association since its first issue in 1914 and is now a standard work of reference on the universities of the several countries, including those of the United Kingdom. Other recurrent publications of the Association are: *Higher Education in the United Kingdom: a Handbook for Students from Overseas* (Longmans

for A.U.B.C. and British Council); *Proceedings of the Quinquennial Congresses of Commonwealth Universities*; *Proceedings of the Home Universities Conferences*; *Annual Report of the executive council*; and *List of University Institutions in the British Commonwealth*. In addition the Association has published special reports such as *Applications for Admission to Universities* (report by R. K. Kelsall on an inquiry commissioned by the U.K. Committee of Vice-Chancellors and Principals), 1957; and the first (1958), second (1960) and third (1961) *Reports of an ad hoc Committee on Procedure for Admission of Students to U.K. universities*. Lists are also available of United Kingdom university term dates, academic visitors to the U.K. and postgraduate awards.

The formal constitution of the Association is set out in the memorandum and articles of association which were adopted and approved by the Board of Trade in 1932 in substantially their present form, though certain amendments have been made with the required approval at extraordinary general meetings following the congresses of 1936, 1948 and 1953 to give effect to minor changes desired by the representatives of member universities.

## MEMORANDUM AND ARTICLES OF ASSOCIATION

### THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH

(The word 'Limited' being omitted by Licence of the Board of Trade)

#### MEMORANDUM OF ASSOCIATION

1. The name of the Association is 'THE ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH'.

2. The registered office of the Association will be situate in England.

3. The objects for which the Association is established are:

- (1) To take over and accept by way of gift or otherwise such of the assets and property of the unincorporated Universities Bureau of the British Empire, established in 1912, as the Association may lawfully acquire and to carry on and continue the undertaking and activities of the said Bureau.
- (2) To collect and distribute information from time to time on matters of interest to the Universities of the British Commonwealth.
- (3) To arrange conferences and congresses and otherwise to facilitate communication and the interchange of information between the said Universities and between them and the Governments and other

public bodies and learned institutions and societies of the British Commonwealth and the Governments, Universities and other bodies of foreign countries.

- (4) To facilitate the interchange of students and teachers between the said Universities and between them and the Universities of foreign countries.
- (5) To establish and maintain a central office in London which shall serve, amongst other things, as a secretariat for the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom and for any other Committees which the Universities may from time to time appoint.
- (6) To establish and maintain offices in any other parts of the United Kingdom or in any state, colony, or dependency of the British Commonwealth or in any foreign country or state, to form centres and

secretariats for the work and activities of the Association.

- (7) To print, publish and circulate handbooks, periodicals, circulars, leaflets and other publications with a view to making known and to furnishing and disseminating information about and encouraging interest in the objects, work and activities of the Association in any part of the world, and generally in connection with the carrying out of its objects.
- (8) To invite and collect subscriptions and donations to the funds of the Association by any lawful means.
- (9) To co-operate with other associations having similar objects with a view to the promotion of the objects of this Association.
- (10) To make, accept, endorse, discount and execute promissory notes, bills of exchange and other negotiable instruments.
- (11) To invest the moneys of the Association not immediately required for the purposes of the Association in or upon such securities and in such manner as may from time to time be deemed expedient, provided that moneys subject or representing property subject to the jurisdiction of the
  - Charity Commissioners or Ministry of Education shall not be invested except in such securities and with such sanction (if any) as may for the time being be required by law.
- (12) To borrow or raise money for the purposes of or in connection with the Association's objects and to secure the same by mortgage or charge of any property of the Association or by the issue of debentures or debenture stock, charged on its undertaking or otherwise, or in any other manner as may be deemed expedient.
- (13) To do all such other things as may be thought calculated to promote the interests and well-being of the Universities of the British Commonwealth or any of them.
- (14) To do all such other things as may be incidental or conducive to the attainment of the above objects or any of them.

Provided that the Association shall not support with its funds any object or endeavour to impose on or procure to be observed by its Members or others any regulation, restriction or condition which if an object of the Association would make it a Trade Union.

Provided also that in case the Association shall take or hold any property subject to the jurisdiction of the Charity Commissioners or Ministry of Education for England and Wales, the Association shall not sell, mortgage, charge or lease the same without such authority, approval or consent as may be required by law, and as regards any such property the Managers or Trustees of the Association shall be chargeable for such property as may come into their hands, and shall be answerable and accountable for their own acts, receipts,

neglects and defaults, and for the due administration of such property in the same manner and to the same extent as they would as such Managers or Trustees have been if no incorporation had been effected, and the incorporation of the Association shall not diminish or impair any control or authority exercisable by the Chancery Division, the Charity Commissioners or the Ministry of Education over such Managers or Trustees, but they shall, as regards any such property, be subject jointly and separately to such control or authority as if the Association were not incorporated. In case the Association shall take or hold any property which may be subject to any trusts, the Association shall only deal with the same in such manner as allowed by law having regard to such trusts.

4. The income and property of the Association, whencesoever derived, shall be applied solely towards the promotion of the objects of the Association as set forth in this Memorandum of Association; and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus, or otherwise howsoever by way of profit, to the Members of the Association.

Provided that nothing herein shall prevent the payment, in good faith, of reasonable and proper remuneration to any officer or servant of the Association, or to any Member of the Association, in return for any services actually rendered to the Association, nor prevent the payment of interest at a rate not exceeding 5 per cent. per annum on money lent or reasonable and proper rent for premises demised or let by any Member to the Association; but so that no member of the Executive Council or Governing Body of the Association shall be appointed to any salaried office of the Association, or any office of the Association paid by fees, and that no remuneration or other benefit in money or money's worth shall be given by the Association to any member of such Council or Governing Body except repayment of out-of-pocket expenses and interest at the rate aforesaid on money lent or reasonable and proper rent for premises demised or let to the Association; Provided that the provision last aforesaid shall not apply to any payment to any railway, gas, electric lighting, water, cable or telephone company of which a member of the Executive Council or Governing Body may be a member or any other company in which such member shall not hold more than one-hundredth part of the capital, and such member shall not be bound to account for any share of profits he may receive in respect of any such payment.

5. No addition, alteration or amendment shall be made to or in the regulations contained in the Articles of Association for the time being in force, unless the same shall have been previously submitted to and approved by the Board of Trade.

6. The 3rd and 4th Paragraphs of this Memorandum contain conditions on which a licence is granted by the Board of Trade to the Association in pursuance of Section 20 of the Companies (Consolidation) Act, 1908.

7. The liability of the Members is limited.
8. Every Member of the Association undertakes to contribute to the assets of the Association, in the event of the same being wound up during the time that he is a Member, or within one year afterwards, for payment of the debts and liabilities of the Association contracted before the time at which he ceases to be a Member, and of the costs, charges and expenses of winding up the same, and for the adjustment of the rights of the contributories amongst themselves, such amount as may be required not exceeding One Pound.
9. If upon the winding up or dissolution of the Association there remains, after the satisfaction of all its debts and liabilities, any property whatsoever, the same shall not be paid to or distributed among the Members of the Association, but shall be given or transferred to some other institution or institutions having objects similar to the objects of the Association, and which shall prohibit the distribution of its or their income and property amongst its or their Members to an extent at least as great as is imposed on the Association under or

by virtue of Clause 4 hereof, such institution or institutions to be determined by the Members of the Association at or before the time of dissolution, or in default thereof by such Judge of the High Court of Justice as may have or acquire jurisdiction in the matter, and if and so far as effect cannot be given to the aforesaid provision then to some charitable object.

10. True accounts shall be kept of the sums of money received and expended by the Association, and the matter in respect of which such receipts and expenditure take place, and of the property, credits and liabilities of the Association; and, subject to any reasonable restrictions as to the time and manner of inspecting the same that may be imposed in accordance with the regulations of the Association for the time being, shall be open to the inspection of the Members. Once at least in every year the accounts of the Association shall be examined and the correctness of the balance-sheet ascertained by one or more properly qualified Auditor or Auditors.

## ARTICLES OF ASSOCIATION

### PRELIMINARY

1. The number of the Members of the Association is declared not to exceed 150, but the Council may at any time register an increase in the number of the Members.
2. These Articles shall be construed with reference to the provisions of the Companies Act, 1948, and terms used in these Articles shall be taken as having the same respective meanings as they have when used in that Act.
3. The Association is established for the purposes expressed in the Memorandum of Association.

### MEMBERSHIP

4. The Members of the Association shall consist of corporate bodies with the following status :
  - (a) *Ordinary Members* who shall be (i) the Universities specified in Schedule A attached to these Articles, and (ii) such Universities situate within the Commonwealth as are admitted Members by the Council in accordance with such regulations as may be framed by the Council in this behalf.
  - (b) *Associate Members* who shall be such Universities in Mandated or Trust Territories of the United Kingdom or of any other Commonwealth country and such other institutions being University Colleges or Colleges of Universities within the Commonwealth (being corporate bodies), as may hereafter be admitted Members by the Council under such conditions of membership as may be prescribed by the Council in this behalf.
  - (c) *Such other classes of Members* (consisting of

corporate bodies) as may from time to time be admitted by the Council under such conditions of membership as may be prescribed by the Council in this behalf.

5. Every Member shall sign an undertaking in such form as the Council may require to observe and perform all the conditions and provisions of the regulations of the Association for the time being in force, and thereupon the name of such Member shall be entered in the register of Members of the Association.

6. Ordinary Members shall have full rights of membership. Other Members shall be entitled to such of the privileges and benefits of the Association as may be assigned to them from time to time by the Council.

7. Every Member shall nominate a person to act as its representative provided that if it has an officer such as Principal President or Vice-Chancellor whom it recognizes as its executive head it shall nominate him. Such nomination shall be in writing and shall be deposited at the registered office of the Association. Such representative shall have the right on behalf of the Member to exercise all such rights of membership as may have been assigned to such Member by these Articles or by Regulations framed by the Council. A Member may from time to time in writing revoke the nomination of such representative, and nominate another representative in his place. If a representative being the executive head of a Member ceases to hold the office by virtue of which he was nominated he shall cease to be the representative and the Member shall nominate his successor in such office as its representative.

7A. The representative of any Member may nominate in writing deposited with the Secretary a deputy to act for him during any period for which he gives notice in such writing; during such period for the purposes of these Articles any deputy so nominated shall be entitled to act as if he were the representative, and the Association shall be entitled to treat him as the representative, and anything done or suffered by him shall be deemed to have been done or suffered by the representative, whether (should the representative be at the time one of the persons appointed to the Executive Council) in relation to the business of the Executive Council or otherwise.

8. Any Member may withdraw from the Association by giving notice in writing to the Secretary before the expiration of any financial year, and on paying with such notice any unpaid subscription for the current year. Thereupon such Member shall be deemed to have ceased to be a Member from the date of the expiration of such financial year.

9. Upon the retirement of any Member by notice as stated in Article 8 the Member shall not be entitled to any repayment of any subscription or any part thereof paid for the current year.

10. The rights of any Member shall not be transferable and shall cease upon the Member failing to pay the annual subscription within twelve months of its becoming due. Any such Member may be readmitted to membership upon payment of the subscription for the year during which its membership lapsed.

#### DUTIES OF MEMBERS

11. Every Member of the Association shall be bound:

- (a) To pay to the Association such minimum annual subscriptions for the various classes of Members as may be fixed by the Association at its first General Meeting after the adoption of these Articles, and as may subsequently be fixed from time to time at Extraordinary Meetings held during the progress of Quinquennial Congresses, under the provisions of Article 35.
- (b) To observe the provisions of these presents and of the Memorandum of Association and all the bye-laws, rules and regulations of the Association for the time being in force.

#### COUNCIL OF THE ASSOCIATION

12. The Executive of the Association shall be a Council consisting of 16 persons chosen from among the representatives of Members so that Members of the classes specified in the second column of the following table and situate in each of the countries or groups of countries mentioned in the first column shall together be entitled to nominate the number of representatives respectively shown in the third column.

<i>Members within—</i>	<i>Class of Member</i>	<i>No. of Representatives</i>
The United Kingdom . . .	Ordinary	4
Canada . . .	Ordinary	2
Australia . . .	Ordinary	2
New Zealand . . .	Ordinary	1
South Africa . . .	Ordinary	2
India and Ceylon . . .	Ordinary	2
Pakistan . . .	Ordinary	1
Other Parts of the Commonwealth	Ordinary and Associate	2

13. (a) The nominations required by Article 12 shall be made by such inter-University organizations as the Council shall by regulation declare to be appropriate to the said countries or groups of countries.

(b) The Association in General Meeting shall appoint the representatives so nominated to be members of the Council until the next General Meeting, when they shall be eligible for renomination and reappointment. If there shall be less than 16 nominations then the General Meeting shall appoint sufficient representatives to be members of the Council to complete that number having regard to the proportions set out in Article 12.

14. The office of a member of the Council shall *ipso facto* be vacated if his appointment as a representative of a Member is withdrawn by the Member appointing him, or if the Corporation appointing him ceases to be a Member of the Association.

15. Casual vacancies shall be filled by the Council from amongst the representatives nominated by Ordinary Members under the provisions of Article 7. The person so appointed shall hold office until the Annual Meeting next after his appointment, but he shall then be eligible for re-election if nominated in accordance with the terms of Article 13.

16. No act or resolution of the Council shall be invalidated by reason of the existence of any vacancy or vacancies among members of the Council, but if the number of members of the Council shall be reduced below 13 the continuing members may act for the purpose only of filling vacancies or summoning a General Meeting of the Association.

17. The Council shall manage and control all matters relating to the management and organization of the Association and may exercise all such powers of the Association as are not by the Companies Act, 1948, or by these Articles required to be exercised by the Association in General Meeting subject nevertheless to any regulation of these Articles, to the provisions of the said Act, and to such regulations being not inconsistent with the aforesaid regulations or provisions, as may be prescribed by the Association in General Meeting; but no regulation made by the Association in

General Meeting shall invalidate any prior act of the Council, which would have been valid if that regulation had not been made.

18. The Council may appoint, in consultation with the appropriate groups of Universities, special Committees to study and report on questions of interest to the Universities in more than one region of the Commonwealth and shall provide the necessary secretarial assistance for such Committees, but if such assistance involves exceptional expenditure, they may make it a condition of providing such assistance that a special subvention be made by the Universities concerned.

19. The Council shall study and report on, either by means of special Committees or otherwise as may be appropriate in each case, any questions referred to them by any Conference or Congress of Universities, but if exceptional expenditure is involved they may make it a condition of undertaking the inquiry that a special subvention be made by the Universities concerned.

20. The Council shall elect annually a Chairman of the Association and an Honorary Treasurer of the Association; and if the person appointed to be Chairman of the Association for any year represents a country other than the United Kingdom the Council shall for each such year appoint a Vice-Chairman of the Association who shall be a person resident in the United Kingdom. If the persons elected as Chairman, Vice-Chairman and Treasurer are not already members of the Executive Council they shall become members for the period during which they hold office.

20A. At every meeting of the Council the Chairman of the Association, if present, shall preside. If the Chairman of the Association is absent, then the Vice-Chairman of the Association shall preside. In the absence of the Chairman and Vice-Chairman, the members of the Council shall choose one of the members of the Council then present to preside at that meeting.

21. The Chairman of the Association and the Vice-Chairman of the Association may at any time, and the Secretary upon the request of six members of the Council shall, convene a meeting of the Council. In the case of a meeting convened at the request of six members the notice of meeting shall state the character of the business to be discussed, and only business of which notice shall have been so given shall be discussed at that meeting. Each member of the Council shall name an address at which all notices shall be served upon him, and all notices served at such address shall be deemed to be well served. Questions arising at any meeting of the Council shall be decided by a majority of members present and voting at such meeting. In the event of the votes being equally divided the Chairman shall have a second or casting vote.

22. The quorum for a meeting of the Council shall be five.

23. A meeting of the Council for the time being at which a quorum is present shall be competent to exercise all or any of the authorities, powers and discretions by or under the Articles of

Association for the time being vested in or exercisable by the Council generally.

24. The Council may delegate such of its powers as it considers desirable to any Committee consisting of members of the Council.

25. The meetings and proceedings of any such Committee shall be governed by the provisions herein contained for regulating the meetings and proceedings of the Council, so far as the same are applicable thereto.

26. The Council may from time to time appoint a Secretary of the Association and any other officers or servants who may be required for the performance of the business of the Association or of the Council and may from time to time appoint a temporary substitute for the Secretary who, in the absence of the Secretary, shall be deemed to be the Secretary.

27. All acts done by any meeting of the Council or by any person acting as a member of the Council shall notwithstanding that it shall be afterwards discovered that there was some defect in the appointment of the Council, or persons acting as aforesaid, or that they or any of them were disqualified, be as valid as if every such person had been duly appointed and was qualified to be a member of the Council.

28. Without prejudice to the generality of the powers conferred upon the Council by Article 17 the Council may from time to time frame regulations (a) generally to give effect to the provisions of the Memorandum of Association and of these Articles and (b) particularly for the following purposes:

- (1) for admitting Universities which may hereafter become corporations;
- (2) for admitting as Associate Members Corporations which are Universities in Mandated or Trust Territories of the United Kingdom or of any other Commonwealth country and other institutions, being Universities Colleges or Colleges of Universities within the Commonwealth;
- (3) for assigning privileges of membership to (a) Associate Members and (b) other classes of Members;
- (4) for prescribing a form to be signed by Members prior to admission as Members;
- (5) for prescribing the manner in which the groups of Universities referred to in Article 12 shall appoint representatives;
- (6) for managing the business and defining the duties of the Association;
- (7) for delegating to Committees of the Council such of its powers as are not inconsistent with the provisions of these Articles;
- (8) for fixing the manner of the appointment of the special Committees referred to in Articles 18 and 19;
- (9) for arranging for the provision of secretarial assistance to such Committees; and for assessing any exceptional expenditure involved and distributing it amongst Universities concerned;
- (10) for determining the period for which the

Chairman, Vice-Chairman and Honorary Treasurer of the Association are to hold office ;

- (11) for defining the manner in which the Minutes of business transacted at meetings of the Association are to be recorded ;
- (12) for providing for the custody of the seal and for determining the officer of the Association other than the Secretary who may countersign instruments to which the seal is attached ;
- (13) for prescribing the form in which instruments appointing proxies shall be framed ;
- (14) for prescribing the books of account which have to be maintained in accordance with the provisions of Article 60 ;
- (15) for prescribing the place at which such books of account shall be kept.

Provided always that no regulation made by the Council shall have any validity or effect if it amounts to or involves such an alteration of or addition to these Articles as could only lawfully be made by Special Resolution.

#### MINUTES

29. The Council shall cause minutes to be duly entered in books provided for the purpose of all business transacted at General and Extraordinary Meetings and at meetings of the Council and Committees thereof.

30. Any such minutes of any meeting of the Council or of Committees thereof, or of the Association, if purporting to be signed by the Chairman of such meeting, or by the Chairman of the next succeeding meeting, shall be conclusive evidence of the matters stated in such minutes.

31. The Council shall submit to the Annual General Meeting of the Association a report of its work and activities during the preceding year.

#### SEAL

32. The Council shall provide for the safe custody of the seal, and the seal shall never be used except by the authority of the Council previously given, and in the presence of a member of the Council, who shall sign every instrument to which the seal is affixed, and every such instrument shall be countersigned by the Secretary or some other person appointed by the Council.

#### GENERAL MEETINGS

33. A General Meeting of the Association shall be held once at least in every calendar year in London or such other University town and at such time as may be determined by the Council provided that a General Meeting shall be held within not more than fifteen months after the holding of the last General Meeting.

34. The above-mentioned General Meetings shall be called Ordinary Meetings, all other General Meetings shall be called Extraordinary Meetings.

35. An Extraordinary Meeting of the Association shall be held during the progress of each Quinquennial Congress of Universities of the

Empire or within three days of the commencement or termination of that Congress.

36. Notwithstanding any provisions to the contrary in these Articles the Chairman of the Association or in his absence the Vice-Chairman of the Association shall have power at any Extraordinary Meeting summoned under the provisions of Article 35 to place on the agenda matters which have been the subject of a resolution passed by the delegates at the Quinquennial Congress during which the Extraordinary Meeting is being held.

37. The Council may whenever it thinks fit and it shall upon a requisition made in writing and signed by Members entitled to vote representing not less than one-tenth of the total voting rights of all the Members having at the date of the requisition a right to vote at General Meetings of the Association convene an Extraordinary Meeting. The Secretary shall at any time when required by the Chairman of the Association or in his absence abroad by the Vice-Chairman of the Association summon an Extraordinary Meeting.

38. Any requisition made by the Members of the Association entitled to vote as aforesaid shall express the object of the meeting proposed to be called and shall be left at the registered office of the Association.

39. Upon the receipt of such requisition the Council shall forthwith proceed to convene an Extraordinary Meeting and if they neglect to do so for twenty-one days from the time of the requisition being so left the requisitionists or any of them representing more than one-half of the total voting rights of all of them may themselves convene the meeting in the same manner as nearly as possible as that in which meetings are to be convened by the Council.

40. The business of an Ordinary Meeting shall be—

- (a) To receive and consider the accounts, the balance-sheet and the reports of the Council and the Auditors.
- (b) To appoint an Auditor or Auditors and fix his or their remuneration.
- (c) To appoint the members of Council in accordance with the provisions of Article 13.

All other business transacted at an Ordinary Meeting and all business transacted at an Extraordinary Meeting shall be deemed special. If any Member has any proposal or any matter which he wishes to make or bring before an Ordinary Meeting he shall give fourteen days' written notice thereof to the Secretary.

41. Subject to the provisions of Section 141 (2) of the Companies Act, 1948, relating to Special Resolutions, twenty-eight days' notice at the least (or in the case of a meeting convened pursuant to a requisition of Members fourteen days' notice at the least) exclusive of the day of giving the notice but inclusive of the day of the meeting, specifying the place, the day and hour of meeting and (in case of special business) the general nature of such business, shall be given by notice to the Members in manner hereinafter stated with reference to the giving of notices, but the accidental omission to





57. The instrument appointing a proxy shall be deposited at the registered office of the Association or delivered to the Secretary not less than forty-eight hours before the time appointed for holding the meeting at which the person named in such instrument proposes to vote.

58. No objection shall be made to the validity of any vote except at the meeting or poll at which such vote shall be tendered, and every vote whether given personally or by proxy not disallowed at such meeting or poll shall be deemed valid for all purposes of such meeting or poll whatsoever.

59. The Chairman of any meeting shall be the sole and absolute judge of the validity of every vote tendered at such meeting or poll and may allow or disallow the votes tendered according as he shall be of opinion that they are or are not valid.

#### ACCOUNTS

60. The Council shall cause proper books of account to be kept with respect to :

- (a) all sums of money received and expended by the Association and the matters in respect of which the receipts and expenditure take place, provided that receipts and expenditure in connection with the Committee of Vice-Chancellors and Principals of the Universities of the United Kingdom and with any other Committees or activities of these Universities shall be shown separately;
- (b) all sales and purchases of goods by the Association ;
- (c) the assets and liabilities of the Association.

61. The books of account shall be kept at such place as the Council may from time to time appoint, and subject to any reasonable restrictions as to the time and manner of inspecting them that may be imposed by the Association in General Meeting, the books of account shall be open to the inspection of the Members at all times during the usual business hours.

62. The Council shall from time to time, in accordance with Section 148 of the Act 1948, cause to be prepared and to be laid before the Association in General Meeting such income and expenditure accounts balance sheets and reports as are referred to in that section.

63. A copy of every balance sheet (including every document required by law to be annexed thereto) which is to be laid before the Association in General Meeting together with a copy of the auditor's report shall not less than seven days before the date of the meeting be sent to all persons entitled to receive notices of General Meetings of the Association.

#### AUDIT

64. Auditors shall be appointed and their duties regulated in accordance with Sections 159, 160, 161 and 162 of the Companies Act, 1948.

#### NOTICES

65. A notice may be given by the Association to any Member either personally to the represen-

tative of such Member or by sending it by post to such representative to his address. Every representative of a Member shall furnish to the Association an address at which notices may be served.

66. (a) Where a notice is sent by post to an address in the United Kingdom or the Republic of Ireland, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting a letter containing the notice, and, unless the contrary is proved, to have been effected by the second day after that on which it was posted.

(b) Where a notice is sent by post to an address outside the United Kingdom or the Republic of Ireland, service of the notice shall be deemed to be effected by properly addressing, prepaying and posting by airmail a letter containing the notice, and, unless the contrary is proved, to have been effected by the eighth day after that on which it was posted.

#### SCHEDULE A. (*Vide* Article 4 (a))

##### UNIVERSITIES OF THE UNITED KINGDOM

*England and Wales* : Birmingham, Bristol, Cambridge, Durham, Leeds, Liverpool, London, Manchester, Nottingham, Oxford, Reading, Sheffield, Southampton, Wales.

*Scotland* : Aberdeen, Edinburgh, Glasgow, St. Andrews.

*Northern Ireland* : The Queen's University of Belfast.

##### UNIVERSITIES OVERSEAS

*Canada* : Acadia, Alberta, British Columbia, Carleton College, Dalhousie, Laval, McGill, McMaster, Manitoba, Montreal, Mount Allison, New Brunswick, Queen's, Saskatchewan, Sir George Williams College, St. Francis Xavier, Toronto, Western Ontario.

*Australia* : Adelaide, Australian National University, Melbourne, New South Wales University of Technology, Queensland, Sydney, Tasmania, Western Australia.

*New Zealand* : The University of New Zealand.

*South Africa* : Cape Town, Natal, Orange Free State, Potchefstroom, Pretoria, Rhodes, South Africa, Stellenbosch, Witwatersrand.

*Ceylon* : The University of Ceylon.

*India* : Allahabad, Andhra, Annamalai, Maharaja Sayajirao University of Baroda, Banaras Hindu University, Bihar, Bombay, Calcutta, Delhi, Jammu and Kashmir, Lucknow, Madras, Mysore, Nagpur, Osmania, Panjab (India), Patna, Rajputana, Roorkee, Saugar, Travancore, Utkal.

*Pakistan* : Dacca, Karachi, Panjab (Lahore), Peshawar, Sind.

*Other Parts of the Commonwealth* : Hong Kong, Malaya, The Royal University of Malta.

# MEMBER INSTITUTIONS OF THE A.U.B.C. AND THEIR REPRESENTATIVES

(as at January 1, 1961)

For Executive Council, *see* p. vii**(i) Ordinary Members****UNITED KINGDOM**

<i>University</i>	<i>Representative</i>
Birmingham . . .	Sir Robert Aitken, MD DPhil LLD DSc DCL, FRCP, FRCPEd, FRACP
Bristol . . .	Sir Philip Morris, KCMG, CBE, MA LLD
Cambridge . . .	H. Butterfield, MA DLit LLD DLitt LittD
Durham . . .	C. I. C. Bosanquet, MA DCL
Exeter . . .	J. W. Cook, DSc PhD ScD, FRIC, FRs
Hull . . .	Brynmor Jones, BSc PhD ScD, FRIC
Leeds . . .	Sir Charles Morris, MA LLD DLitt
Leicester . . .	C. H. Wilson, MA LLD
Liverpool . . .	Sir James Mountford, MA DLitt LittD LLD DCL
London . . .	Sir Douglas Logan, MA DPhil DCL LLD
Manchester . . .	Professor W. Mansfield Cooper, LL.M
Nottingham . . .	B. L. Hallward, MA
Oxford . . .	A. L. P. Norrington, MA
Reading . . .	Sir John Wolfenden, CBE, MA
Sheffield . . .	J. M. Whittaker, MA DSc, FRs
Southampton . . .	D. G. James, MA LLD
Wales . . .	A. Steel, OBE, MA LittD
Aberdeen . . .	Sir Thomas Taylor, CBE, QC, MA DD LLD
Edinburgh . . .	Sir Edward Appleton, GBE, KCB, MA DSc ScD LLD LittD DU, FRCSEd, FRs
Glasgow . . .	Sir Hector Hetherington, KBE, MA LLD DLitt Dèsl
St. Andrews . . .	T. M. Knox, MA LLD
The Queen's, Belfast	M. Grant, CBE, MA LittD, FSA

**CANADA**

Acadia . . .	W. Kirkconnell, MA PhD LLD DPEc DLitt LittD LHD, FRAl, FRHistS, FRScan
Alberta . . .	W. H. Johns, BA PhD LLD
Assumption . . .	Very Rev. E. C. LeBel, CD, MA
British Columbia . . .	N. A. M. MacKenzie, CMG, MM, QC, BA LLD DCL DScSoc, FRScan
Carleton . . .	A. D. Dunton, DSc LLD
Dalhousie . . .	A. E. Kerr, BA DD LLD
King's College . . .	Rev. Canon H. L. Puxley, MA LTh DD
Laval . . .	Mgr. L.-A. Vachon, DTh DPH
McGill . . .	F. C. James, BCom AM PhD DSc DU DCL LLD, FRScan
McMaster . . .	G. P. Gilmour, MA DD DCL LLD DLitt, FRScan
Manitoba . . .	H. H. Saunderson, BA MSc PhD LLD, FCIC
Memorial University of New foundland . . .	R. Gushue, CBE, QC, LLD DCnL
Montreal . . .	Rt. Rev. Mgr. I. Lussier, LLD LTh LPh
Mount Allison . . .	Rev. W. T. R. Flemington, OBE, ED, MA BPæd DD LLD
New Brunswick . . .	C. B. Mackay, BA LLD DCL
Ottawa . . .	Very Rev. H. Légaré, BA DSocSc LLD
Queen's, Ontario . . .	W. A. Mackintosh, CMG, MA PhD LLD DCL, FRScan
St. Dunstan's . . .	Rt. Rev. J. A. Sullivan, MA
St. Francis Xavier . . .	Rt. Rev. H. J. Somers, PhD, FRHistS
St. Mary's . . .	Very Rev. C. J. Fischer, SThL
Saskatchewan . . .	J. W. T. Spinks, MBE, PhD DSc LLD, FRScan
Sir George Williams . . .	H. F. Hall, BA LLD DD

# ASSOCIATION OF UNIVERSITIES OF THE BRITISH COMMONWEALTH 1423

<i>University</i>	<i>Representative</i>
Toronto . . . . .	C. T. Bissell, MA PhD DLitt LLD, FRSCan
Western Ontario . . . . .	G. E. Hall, AFC, MSA MD PhD DSc LLD, FRSCan
<b>AUSTRALIA</b>	
Adelaide . . . . .	H. B. Basten, CMG, MA
Australian National University . . . . .	Professor L. G. H. Huxley, MA DPhil PhD, FIP, FAA
Melbourne . . . . .	Professor Sir George Paton, MA DCL LLD
Monash . . . . .	J. A. L. Matheson, MBE, MSc PhD MCE, MICE
New England . . . . .	R. B. Madgwick, MEc DPhil
New South Wales . . . . .	J. P. Baxter, CMG, OBE, BSc PhD, FAA, FRACI
Queensland . . . . .	Professor F. J. Schonell, MA PhD DLitt
Sydney . . . . .	S. H. Roberts, CMG, MA LittD DLitt LLD DSc(Econ) DCL
Tasmania . . . . .	K. S. Isles, MA MSc
Western Australia . . . . .	S. L. Prescott, OBE, MSc
<b>NEW ZEALAND</b>	
New Zealand . . . . .	Sir George A. Currie, BSc(Agric) DSc LLD LittD
<b>SOUTH AFRICA</b>	
Cape Town . . . . .	J. P. Duminy, MA BSc
Natal . . . . .	E. G. Malherbe, MA PhD LLD
Orange Free State . . . . .	Professor P. W. G. Groenewoud, MSc DPhil
Potchefstroom . . . . .	Professor J. C. Coetzee, MA MEd DPhil, FBPsS
Pretoria . . . . .	C. H. Rautenbach, MA BD DU DPhil
Rhodes . . . . .	T. Alty, PhD DSc DCL LLD, FIP, FRSCan
South Africa . . . . .	Professor S. Pauw, BSc MA DPhil
Stellenbosch . . . . .	H. B. Thom, MA DPhil
Witwatersrand . . . . .	W. G. Sutton, BA BSc(Eng), MICE
<b>INDIA</b>	
Agra . . . . .	K. P. Bhatnagar, MA LLB
Allahabad . . . . .	S. Ranjan, MSc DesSc, FNI
Andhra . . . . .	V. S. Krishna, BA PhD
Annamalai . . . . .	Lt.-Col. T. M. Narayanaswami Pillai, MA BL
Banaras . . . . .	Lt.-Col. N. H. Bhagwati, MA LLB
Baroda . . . . .	J. M. Mehta, MA PhD
Bihar . . . . .	D. Ram, BSc MB DOMS
Bombay . . . . .	V. R. Khanolkar, BSc MD, FNI
Calcutta . . . . .	S. Mitra, MD, FRCSEd, FRCOG, FACS, FNI
Delhi . . . . .	N. K. Sidhanta, MA LLD
Gorakhpur . . . . .	B. N. Jha, BEd
Jabalpur . . . . .	Pandit K. L. Dubey, BA LLB
Jadavpur . . . . .	T. Sen, DrIng, MIE(India)
Jammu and Kashmir . . . . .	A. A. A. Fyzee, MA
Kerala . . . . .	K. C. K. E. Raja, DTM&H
Madras . . . . .	Sir A. L. Mudaliar, BA MD LLD DSc DCI., FRCOG, FACI
Mysore . . . . .	N. A. Nikam, MA
Osmania . . . . .	D. S. Reddi, MA
Panjab, Chandigarh . . . . .	A. C. Joshi, DSc, FNI
Patna . . . . .	B. N. Rai
Rajasthan . . . . .	M. S. Mehta, MA LLB PhD
Roorkee . . . . .	K. N. Kathpalia
Sardar Vallabhbhai Vidyapeeth . . . . .	B. J. Patel, BA LLB
Saugar . . . . .	D. P. Mishra, BA LLB DLitt
Sri Venkateswara . . . . .	S. Govindarajulu, MA LLB BL
Utkal . . . . .	Col. P. P. Parija, OBE, MA DSc, FNI
Vikram . . . . .	G. L. Datta, MA PhD
<b>CEYLON</b>	
Ceylon . . . . .	Sir Nicholas Attygalle, LMS DSc, FRCS, FRCOG

## PAKISTAN

<i>University</i>	<i>Representative</i>
Dacca . . . . .	M. Husain, PhD
Karachi . . . . .	B. A. Hashmi, MA MEd LLD
Panjab, Lahore . . . . .	U. Kramet, MA
Peshawar . . . . .	Col. M. K. Afridi, CBE, MD
Rajshahi . . . . .	M. Ahmed, MA PhD
Sind . . . . .	M. Raziuddin Siddiqi, MA PhD DSc

## OTHER PARTS OF THE COMMONWEALTH

Hong Kong . . . . .	L. Ride, CBE, MA DM BCh LLD, JP
Malaya . . . . .	Sir Alexander Oppenheim, OBE, MA DSc PhD
Malta . . . . .	J. A. Manché, CBE, BSc MD LLD

## (ii) Associate Members

University College of North Staffordshire . . . . .	Professor W. A. C. Stewart, MA PhD
University College of Sussex . . . . .	J. S. Fulton, MA
Brandon College . . . . .	H. S. Perdue, MA PhD
University of Otago . . . . .	F. G. Soper, CBE, PhD DSc, FRIC, FRSNZ, FNZIC
University of Canterbury . . . . .	.....
University of Auckland . . . . .	K. J. Maidment, MA
Victoria University of Wellington . . . . .	J. Williams, PhD LLD
Canterbury Agricultural College . . . . .	M. M. Burns, CBE, MSc PhD, FNZIC
Massey Agricultural College . . . . .	A. Stewart, MAgrSc DPhil
University College of Fort Hare . . . . .	J. J. Ross, BSc BEd LLB BAdmin MA HSED
University College of Ghana . . . . .	R. H. Stoughton, DSc LLD
University College, Ibadan . . . . .	K. O. Dike, MA PhD
Makerere College, The Univer- sity College of East Africa . . . . .	B. de Bunsen, CMG, MA
University College of Rhodesia and Nyasaland . . . . .	W. Adams, CMG, OBE, BA LLD
Fourah Bay College, The Univer- sity College of Sierra Leone . . . . .	D. S. H. W. Nicol, MA MD PhD
University College of the West Indies . . . . .	W. A. Lewis, BCom MA PhD LHD LLD

## (iii) Additional Members

College of Science and Techno- logy, Manchester . . . . .	B. V. Bowden, MA PhD, MIEE
Royal College of Science and Technology, Glasgow . . . . .	S. C. Curran, DSc, FRS
Nova Scotia Technical College . . . . .	J. Hoogstraten, MSc, MEIC
Royal Military College of Canada . . . . .	Brigadier W. A. B. Anderson, OBE, CD

# GENERAL INDEX

[For index to the names of teaching staff and administrative officers, see pp. 1459-1590]

The General Index contains references to institutions, to subjects of study, and to such topics as Admission, Degrees, Vacation Courses, etc.

In each university entry in the book, only the *first* page on which a subject of study is mentioned is indexed, the several colleges, etc., of a federal university being treated as separate entries. This single reference is usually to a departmental heading, or bracketed subject beside a status, in the staff list, but a further (unindexed) mention of the subject may also be found in such paragraphs as 'First Degrees' or 'Diplomas' in the section of General Information for that university.

Although, under the heading of 'Medicine', a reference is given in the index to each medical school or faculty, subjects which normally form part of the course for a degree in medicine are not indexed separately. Such subjects are : anaesthetics, anatomy, bacteriology, dermatology, forensic medicine, gynaecology, obstetrics, ophthalmology, orthopaedics, oto-rhino-laryngology, paediatrics, pathology, physiology, surgery, tuberculosis, venereal diseases.

Similarly, although a reference is given in the index, under the heading of 'Dentistry', to each dental school or faculty, subjects which normally form part of the course for a degree in dentistry are not indexed separately.

The indexing of subjects which may be studied at all, or almost all, universities is limited to the indexing of references in the several national introductions. Such subjects are : biochemistry, biology, botany, chemistry, classics (Greek and Latin), economics (political economy), education, engineering (also civil, electrical and mechanical engineering), English, French, geography, geology, German, history, law, mathematics (also pure and applied mathematics), music, philosophy, physics, politics (political science), social studies, zoology. It should, however, be noted that the less common branches of these subjects (*e.g.* : agricultural chemistry ; music, African) are fully indexed in the way described in paragraph two above.

ABBREVIATIONS : *Aust*=Australia, *Can*=Canada, *Ceyl*=Ceylon, *Gh*=Ghana, *HK*=Hong Kong, *Ind*=India, *M & S*=Malaya & Singapore, *NZ*=New Zealand, *Nig*=Nigeria, *Pak*=Pakistan, *R & N*=Federation of Rhodesia & Nyasaland, *SLeone*=Sierra Leone, *SA*=South Africa, *Ug*=Uganda, *UK*=United Kingdom, *WI*=West Indies, *R of Ireland*=Republic of Ireland, *App*=Appendix.

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